



Name of Work: - OHE Work in connection with providing permanent connection between IR and DFCCIL track at Madar Station under Ajmer unit of WDFC.

**Single Packet
OPEN E-TENDER**

**TENDER DOCUMENT
(NOT TRANSFERABLE)
April - 2025**

**Employer:
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
UNDER MINISTRY OF RAILWAYS**

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Note:

- 1. Information as required as per various Forms/Annexures to tender document should be submitted by the tenderers without fail strictly as per formats. Offers submitted without Mandatory documents shall be summarily rejected.**
- 2. Tenderer should bear the fact in mind while quoting the rates that GST will be paid by Contractor as per prevailing rate as applicable. Documentary evidence of deposition of GST will be produced by contractor.**

**Instructions to Bidders
For
Online Bidding & Check List**

PART-I**A. Instructions to bidders for online bidding**

General:- Submission of Online Bids is mandatory for this Notice Inviting Tender. E - Tendering is new methodology for conducting Public Procurement in a transparent and secured manner. Supplier/ Vendors will be the biggest beneficiaries of this new system of procurement. For conducting electronic tendering, DFCCIL has decided to use the portal (ireps.gov.in), a Government of India Undertaking. Benefits to Suppliers/ service providers are outlined on the Home page of the portal.

Instructions:-

- 1. Bidding Methodology:** Online Bid System
- 2. Broad outline of activities from Bidders perspective: -**
 - a. Procure a Digital Signing Certificate (DSC)
 - b. Register on Electronic Tendering System (ETS)
 - c. Create Users and assign roles on ETS
 - d. View Notice Inviting Tender (NIT) on (ETS)
 - e. Download Official copy of Tender Documents from ETS.
 - f. Clarification to Tender Documents on ETS - Query to DFCCIL (Optional) - view response to queries posted by DFCCIL through addenda.
 - g. Bid Submission on ETS: Prepare & arrange all documents/ papers for submission of bid online.
 - h. Attend Public Online Tender Opening Event (TOE) on ETS.
 - i. Post TOE clarification on ETS (Optional). Respond to DFCCIL's post – TOE queries. For participating in this tender online, the following instructions are to be read carefully. These instructions are supplemented with more detailed guidelines on the relevant screens of the ETS.
- 3. Digital Certificate:**
For integrity of data and its authenticity/ non repudiation of electronic records and to be compliant with IT Act 2000, it is necessary for each user to have a Digital Certificate (DC) also referred to as Digital Signature Certificate (DSC) of class III issued by a Certifying Authority (CA) licensed by Controller of Certifying Authority (CCA) (refer <http://www.cca.gov.in>).
- 4.** The Tender documents can be downloaded from the website: ireps.gov.in and to be submitted in the e - format, before the schedule date & time of submission of the tender otherwise the Bid will not be considered.
- 5.** Physical copy of the tender documents would not be sold/accepted.
- 6.** List of Contact persons for this tender details of DFCCIL

DFCCIL Contact- 1	Sh. Manish Kumar Vijay
Telephone/Mobile No.	9001091306
E-mail ID	mkvijay@dfcc.co.in
DFCCIL Contact- 2	Sh. Manoj Kumar B
Telephone/Mobile No.	9724160350
E-mail ID	mkumar@dfcc.co.in

7. Modification / Withdrawal of bids:

- (i) The Bidder may modify/ withdraw its e-bid after submission prior to the Bid Due Date & time. No Bid shall be modified / withdrawn by the Applicant on or after the Bid Due Date & time.
- (ii) Any alteration/ modification in the Bid or additional information supplied subsequent to the Bid Due Date, unless the same has been expressly sought for by the Authority, shall be disregarded.
- (iii) For modification of e-bid, applicant has to detach its old bid from e-tendering portal and upload / resubmit digitally signed modified bid.
- (iv) For withdrawal of bid, applicant has to click on withdrawal icon at e-tendering portal and can withdraw its e-bid.

8. DFCCIL may issue addendum(s) / corrigendum(s) to the tender documents. In such cases the addendum(s)/corrigendum(s) shall be placed on ireps.gov.in and www.dfccil.gov.in. The tenderer who have downloaded the tender documents from the website before issue of addendum(s)/ corrigendum(s) must visit the website and ensure that such addendum(s) / corrigendum (s) (if any) is also downloaded by them. Such addendum(s) / corrigendum (s) (if any) shall also be submitted duly stamped and signed along with the submission of tenders. Any tender submitted without addendum(s) / corrigendum(s) (if any) shall be summarily rejected.

9. Other instructions

- a) It is recommended that the Tenderer/vendor should visit the portal (ireps.gov.in), peruse the information provided under the relevant links and login to it and upload documents of bid.
- b) DFCCIL reserves right to cancel the tender before submission / opening of tender, postpone the tender submission / opening date and to accept / reject any or all tenders without assigning any reason thereof. DFCCIL's assessment of suitability as per eligibility criteria shall be final and binding.

Check list for Mandatory Annexures: -

Information as required as per various Forms/Annexures to tender document should be submitted by the tenderers without fail strictly as per formats. Offers submitted without Mandatory documents shall be summarily rejected.

10.1 Annexure I (Firm Details), Annexure II (Tender Certificate), Annexure IV-A/IV-B/IV-C (Completion Certificate), Annexure VIII (CA certificate on letterhead), Annexure XXIII any other Annexures as applicable.

10.2 In addition to above following documents are also mandatory as applicable. Annexures as per Clause 16.2 of General Instruction to Tenderers (As applicable)

10.2.1 For Sole Proprietorship Firm: Annexure IX & Annexure XIV and also other documents as applicable as para 16.2.1

10.2.2 For HUF Firm: Annexure XXIX & Annexure XXX as and also other documents as applicable as para 16.2.2

10.2.3 For partnership Firm: Annexure XIII (Annexure XXXI if newly formed partnership firm; Annexure XXXII for existing partnership firm and also other documents as applicable as para 16.2.3

10.2.4 For Companies registered under Companies Act 2013: Annexure XV; Annexure XXXIII; and also other documents as applicable as para 16.2.4

10.2.5 For LLP Firm registered under LLP Act 2008: Annexure XXI; Annexure XXV; Annexure XXXI; Annexure XXXII and also other documents as applicable as para 16.2.5

10.2.6 For registered Society & Registered Trust: Annexure XXII and also other documents as applicable as para 16.2.6

10.2.7 For JV Firm: Applicable for Tender value more than 10Cr (Please refer para 16.2.7)

10.2.7.1 Sole Proprietorship firm participating as member of JV – Annexure-I & XII and also other documents as applicable as para 16.2.7.1.

10.2.7.2 HUF (Hindu Undivided Family) participating as member of JV – Annexure-XXIX & XII also other documents as applicable as para 16.2.7.2

10.2.7.3 Partnership Firm participating as member of JV- Annexure – XI & XVIII also other documents as applicable as para 16.2.7.3

10.2.7.4 Company Participating as member of JV – Annexure – XII & XVII also other documents as applicable as para 16.2.7.4

10.2.7.5 LLP Firm participating as member of JV-documents as applicable as para 16.2.7.5

GENERAL INFORMATION/ DATA SHEET

PART - II**GENERAL INFORMATION/DATA SHEET**

Tender Notice No.	All-EL-MD-IQG-Madar-T-22
Name of the work	OHE Work in connection with providing permanent connection between IR and DFCCIL track at Madar Station under Ajmer unit of WDFC.
Tender Value	Rs. 96,68,206.41/- (Ninety Six lakh Sixty Eight thousand Two Hundred Six and Fourty One paisa only) Including 18 % GST
(i) Completion Period	6 Months (From the date of issue of LOA)
(ii) Type of Bid	Single packet
(iii) Earnest Money	Rs. 1,93,400.00/- (One lakh Ninety Three thousand Four hundred rupees and zero paisa only). (To be paid online through payment gateway provided at www.ireps.gov.in .)
(iv) Last Date and Time of Downloading of Tender from website ireps.gov.in and www.dfccil.com	15:00 Hrs. of 15.05.2025
(v) Last date and Time of online submission of Tender on website ireps.gov.in	15:00 Hrs. of 15.05.2025
(vi) Date and Time of Opening of Tender	15:30 Hrs. of 15.05.2025
(vii) Validity of offer	45 Days

NOTE:

- 1. Tenderer should bear the fact in mind while quoting the rates that GST will be paid by Contractor as per prevailing rate as applicable. Documentary evidence of deposition of GST will be produced by contractor for on account bill.**
- 2. Information as required as per various Forms/Annexures to tender document should be submitted by the tenderers without fail strictly as per formats. Offers submitted without Mandatory documents shall be summarily rejected.**

GENERAL INSTRUCTION TO TENDERERS

PART-III
GENERAL INSTRUCTIONS

1.0	For the purpose of this tender in DFCCIL, stipulations and conditions as specified in Indian Railways Standard General Conditions of Contract slips (will be referred as GCC- 2022 in the document) as amended/corrected up to latest correction will be applicable, copies of which can be seen in the office of CGM/GM/Co-ord., DFCCIL, Ajmer.
1.1	<p>DEFINITIONS AND INTERPRETATION</p> <p>(A) Definition: - In these General conditions of Contract, the following terms shall have the meaning assigned hereunder except where the context otherwise requires: -</p> <ol style="list-style-type: none"> “Railway” shall mean the President of the Republic of India or the Administrative Officers of the DFCCIL or of the Successor DFCCIL authorized to deal with any matters which these presents are concerned on his behalf. “Engineer” and Employer’s Engineer shall mean the Chief General Manager/General Manager-Co of DFCCIL appointed by DFCCIL. “Engineer’s Representative” shall mean the JPM /APM / PM / Dy. CPM /Add. CPM of DFCCIL in direct charge of the work and shall include any Jr.Executive / Executive/Sr. Executive, JPM/APM/PM / Dy.CPM/ CPM/GM of DFCCIL of Civil Engineering / Signal & Telecommunication Engineering / Electrical Engineering Department appointed by the DFCCIL and shall mean and include the Engineer’s Representative of the successor DFCCIL. “Contractor” shall mean the person / Firm / Company whether incorporated or not who enters into the contract with the DFCCIL and shall include their executors, administrators, and successors and permitted assigns. “Contract” shall mean and include the Agreement of Work Order, the accepted schedule of rates of the Schedule or Rates of DFCCIL modified by the tender percentage for items of work quantified, or not quantified, General Conditions of Contract, Special Conditions of Contracts, if any, Drawings, Specifications, Additional / Special Specifications, if any and tender forms, if any, and all other documents included as part of contract. “Works” shall mean the works to be executed in accordance with the contract. “Specifications” shall mean the Specifications for materials and works referred / mentioned in tender documents. “Schedule of rates of Railway” shall mean the schedule of rates issued under the authority of the chief engineer from time to time and shall also include Rates specified in tender document. “Drawing” shall mean the maps, drawings, plans and tracings or prints there of annexed to the contract and shall include any modifications of such drawings and further drawings as may be issued by the Engineer from time to time. “Constructional Plan” shall mean all appliances or things of whatsoever nature required for the execution, completion or maintenance of the works or temporary works (as hereinafter defined) but does not include materials or other things intended to form or forming part of the permanent work. “Temporary Works” shall mean all temporary works of every kind required for the execution completion and/or maintenance of the works. “Site” shall mean the lands and other places on, under, in or through which the works are to be carried out and any other lands or places provided by the Railway for the purpose of the contract.

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	<p>m. "Period of Maintenance" shall mean the defect liability period from the date of completion of the works as certified by the Engineer.</p> <p>(B) Singular and Plural:- Words importing the singular number shall also include the plural and vice versa where the context requires.</p> <p>(C) Headings & marginal headings:-The headings and marginal headings in these general conditions are solely for the purpose of facilitating reference and shall not be deemed to be part thereof or be taken into consideration in the interpretation or construction thereof or the contract.</p>
1.2	IR specifications/Guidelines updated with correction slips, relevant BIS codes updated with correction slips. General Conditions of Contract-2022 and Standard Specifications as laid down in the Indian Railways Unified Standard Specifications (Works and Material) -2010 in the document as amended/corrected up to latest correction will be applicable, copies of which can be seen in the office of CGM, DFCCIL, Ajmer.
1.3	All general and detailed drawings pertaining to this work which will be issued by the Engineer or his representatives (from time to time) with all changes and modifications.
2.0	<p>Drawings for the Work: The Drawing for the work can be seen in the office of CGM, DFCCIL, Ajmer, at any time during the office hours. The drawings are only for the guidance of Tenderer(s). Detailed working drawings (if required) based generally on the drawing mentioned above, will be given by the Engineer or his representative from time to time.</p> <p>As per Clause No. 2 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up to date correction slip</p>
3.0	<p>Tender Form: Tender Forms shall embody the contents of the contract documents either directly or by reference, e-Tender Forms shall be issued free of cost to all tenderers.</p> <p>As per Clause No.3 of Part-I of GCC APRIL-2022 , with up to date correction slip</p>
3.1	<p>Date of inviting tender shall be the date of publishing tender notice on IREPS website if tender is published on website or the date of publication in newspaper in case tender is not published on website.</p> <p>As per Clause No. 1.2 (n) of Part-I of GCC APRIL-2022, with up to date correction slip</p>
3.2	The Tenderer(s) shall quote his / their rates as a percentage above or below the Schedule of Rates of DFCCIL except where he/they are required to quote item rates and must tender for all the items shown in the Schedule of approximate quantities attached. The quantities shown in the attached Schedule are given as a guide and are approximate only and are subject to variation according to the needs of the DFCCIL. The DFCCIL does not guarantee work under each item of the Schedule. The tenderer(s) shall quote rates / rebates only at specified place in Tender Form supplied by DFCCIL. Any revision of rates / rebates submitted (quoted) through a separate letter whether enclosed with the bid (Tender Form) or submitted separately or mentioned elsewhere in the document other than specified place shall be summarily ignored and will not be considered.

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	As per Clause No. 3 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up to date correction slip.
4.0	Tenders containing erasures and / or alterations of tender documents are liable to be rejected. Any correction made by tenderer(s) in his/their entries must be attested by him / them. As per Clause No. 4 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022 , with up to date correction slip
5.0	<u>EARNEST MONEY</u>
5.1	For the subject tender, the Earnest Money deposit shall be Rs. 1,93,400/- and shall be governed by Para 5.1.1/ 5.1.2/5.1.3 below.
5.1.1	<p>(a) The tenderer shall be required to deposit earnest money with the tender for the due performance with the stipulation to keep the offer open till such date as specified in the tender, under the conditions of tender.</p> <p>Note:</p> <p>(i) The earnest money shall be rounded off to the nearest Rs. 100. This earnest money shall be applicable for all modes of tendering.</p> <p>(ii) Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' shall be exempted from payment of earnest money deposit detailed above.</p> <p>(iii) Labor Cooperative Societies shall deposit only 50% of above earnest money deposit detailed above.</p> <p>(b) It shall be understood that the tender documents have been issued to the tenderer and the tenderer is permitted to tender in consideration of stipulation on his part, that after submitting his tender he will not rescind from his offer or modify the terms and conditions thereof in a manner not acceptable to the Engineer. Should the tenderer fail to observe or comply with the said stipulation, the aforesaid amount shall be liable to be forfeited to the DFCCIL.</p> <p>(c) If his tender is accepted this earnest money mentioned in sub clause (a) above will be retained as part security for the due and faithful fulfillment of the contract in terms of Clause 16 of the Standard General Conditions of Contract. The Earnest Money of other Tenderers shall, save as herein before provided, be returned to them, but the DFCCIL shall not be responsible for any loss or depreciation that may happen thereto while in their possession, nor be liable to pay interest thereon.</p> <p>As per Clause No. 5 – 1 (a) of Part-I of GCC APRIL-2022, with up to date correction slip</p>
5.1.2	<p>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 Annexure- Z and shall be valid for a period of 90 days beyond the bid validity period.</p> <p>As per Clause No. 5 –(2) of Part-I of GCC APRIL-2022, with up to date correction slip</p>
5.1.3	<p>In case, submission of Bid Security in the form of Bank Guarantee, following shall be ensured:</p> <ol style="list-style-type: none"> A scanned copy of the Bank Guarantee shall be uploaded on e-Procurement Portal (IREPS) while applying to the tender. The original Bank Guarantee should be delivered in person to the official nominated as indicated in the tender document within 5 working days of deadline of submission of bids.

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	<p>iii. Non submission of scanned copy of Bank Guarantee with the bid on e-tendering portal (IREPS) and/or non submission of original Bank Guarantee within the specified period shall lead to summary rejection of bid.</p> <p>iv. The Tender Security shall remain valid for a period of 90 days beyond the validity period for the Tender.</p> <p>v. The details of the BG, physically submitted should match with the details available in the scanned copy and the data entered during bid submission time, failing which the bid will be rejected.</p> <p>vi. The Bank Guarantee shall be placed in an envelope, which shall be sealed. The envelope shall clearly bear the identification “Bid for the ***** Project” and shall clearly indicate the name and address of the Bidder. In addition, the Bid Due Date should be indicated on the right hand top corner of the envelope.</p> <p>vii. The envelope shall be addressed to the officer and address as mentioned in the tender document.</p> <p>viii. If the envelope is not sealed and marked as instructed above, the DFCCIL assumes no responsibility for the misplacement or premature opening of the contents of the Bid submitted and consequent losses, if any, suffered by the Bidder.</p> <p>As per Clause No. 6 of Tender Form (second sheet) Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
	<p style="text-align: right;">Annexure –Z</p> <p style="text-align: center;">(Bid Security)</p> <p style="text-align: center;">Bank Guarantee Bond from any scheduled commercial bank of India (On non-judicial stamp paper, which should be in the name of the Executing Bank).</p> <p>Name of the Bank: -----</p> <p>CPM, DFCCIL/Ajmer, Acting through, DFCCIL, Beneficiary: CPM DFCCIL AJMER Date:.....</p> <p>Bank Guarantee Bond No.: _____ Date:-----</p> <p>In consideration of the CPM, DFCCIL/Ajmer acting through General Manager/Co-ord, Ajmer (Designation & address of Contract Signing Authority), Ajmer, DFCCIL,, (hereinafter called “The DFCCIL”) having invited the bid for _____through Notice inviting tender (NIT) No.._____, We have been informed that [Insert name of the Bidder]..... (hereinafter called "the Bidder") intends to submit its bid (hereinafter called "the Bid") .</p> <p>WHEREAS, the Bidder is required to furnish Bid Security for the sum of [Insert required Value of Bid Security], in the form of Bank Guarantee, according to conditions of Bid.</p> <p>AND</p> <p>WHEREAS, [Insert Name of the Bank], with its Branch [Insert Address] having its Headquarters office at..... [Insert Address], hereinafter called the Bank, acting through [Insert Name and Designation of the authorized persons of the Bank], have, at the request of the Bidder, agreed to give guarantee for Bid Security as hereinafter contained, in favour of the CPM DFCCIL Ajmer:</p> <p>1. KNOW ALL MEN that by these present that I/We the undersigned [Insert name(s) of authorized representatives of the Bank], being fully authorized to sign and incur obligations for and on behalf of the Bank, confirm that the Bank, hereby, unconditionally and irrevocably guarantee to pay to the CPM DFCCIL Ajmer full amount in the sum of [Insert required Value of Bid Security] as above stated.</p>

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2. The Bank undertakes to immediately pay on presentation of demand by the DFCCIL any amount up to and including aforementioned full amount without any demur, reservation or recourse. Any such demand made by the DFCCIL on the Bank shall be final, conclusive and binding, absolute and unequivocal on the Bank notwithstanding any disputes raised/ pending before any Court, Tribunal, Arbitration or any Authority or any threatened litigation by the Bidder or Bank.
3. The Bank shall pay the amount as demanded immediately on presentation of the demand by DFCCIL without any reference to the Bidder and without the DFCCIL being required to show grounds or give reasons for its demand of the amount so demanded.
4. The guarantee hereinbefore shall not be affected by any change in the constitution of the Bank or in the constitution of the Bidder.
5. The Bank agrees that no change, addition, modifications to the terms of the Bid document or to any documents, which have been or may be made between the DFCCIL and the Bidder, will in any way absolve the Bank from the liability under this guarantee; and the Bank, hereby, waives any requirement for notice of any such change, addition or modification made by DFCCIL at any time.
6. This guarantee will remain valid and effective from.....**[insert date of issue]** till**[insert date, which should be minimum 90 days beyond the expiry of validity of Bid]**. Any demand in respect of this Guarantee should reach the Bank within the validity period of Bid Security.
7. The Bank Guarantee is unconditional and irrevocable.
8. The expressions Bank and DFCCIL herein before used shall include their respective successors and assigns.
9. The Bank hereby undertakes not to revoke the guarantee during its currency, except with the previous consent in writing of the DFCCIL. This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No.758.
10. The Bank hereby confirms that it is on the SFMS (Structured Financial Messaging System) and shall invariably send the advice of this Bank Guarantee to the following bank details –

NAME	CPM DFCCIL AJMER
IFSC CODE	UBIN0546836
BANK ACCOUNT NUMBER	309801010900413
BANK NAME	UNION BANK OF INDIA
BRANCH NAME	SRI NAGAR ROAD AJMER
CITY NAME	AJMER- 305001

11. The Guarantee shall be valid in addition to and without prejudice to any other security Guarantee(s) of Bidder in favour of the DFCCIL. The Bank, under this Guarantee, shall be deemed as Principal Debtor of the DFCCIL.

Date

Place.....

Bank's Seal and authorized signature(s)

[Name in Block letters]

[Designation with Code No.].....

[P/Attorney] No.

Witness:

1 Signature, Name & Address & Seal

2 Signature, Name & address & Seal

Bank's Seal

[P/Attorney]No.

Note: 1. All italicized text is for guidance on how to prepare this bank guarantee and shall be deleted from the final document.

2. This bank detail only use for submission of Bid Security in the form of Bank Guarantee.

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6.0	<p>Rights of the DFCCIL to deal with Tender: The authority for the acceptance of the tender will rest with the DFCCIL. It shall not be obligatory on the said authority to accept the lowest tender or any other tender, and tenderer(s) shall neither demand any explanation for the cause of rejection of his/ their tender nor the DFCCIL to assign reasons for declining to consider or reject any particular tender or tenders.</p> <p>As per Clause No. 7 of Tender Form (second sheet) Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
6.1	<p>If the tenderer(s) deliberately gives / give wrong information in his / their tender or creates / create circumstances for the acceptance of his / their tender, the DFCCIL reserves the right to reject such tender at any stage.</p> <p>As per Clause No. 8 of Tender Form (second sheet) Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
6.2	<p>If the tenderer(s) expire(s) after the submission of his / their tender or after the acceptance of his / their offer, the DFCCIL shall deem such tender cancelled. If a partner of a firm expires after the submission of their tender or after the acceptance of their tender, the DFCCIL shall deem such tender as cancelled, unless the firm retains its character.</p> <p>As per Clause No. 9 of Tender Form (second sheet) Annex. I of Part-I of GCC APRIL-2022 , with up to date correction slip</p>
7.0	SYSTEM OF TENDERING
7.1	<p>Two Packets System of Tendering: With a view to assess the tenders technically without being influenced by the financial bids, 'Two Packets System of tendering' shall be adopted for contract valuing more than Rs. 10 crores or as advised by DFCCIL Board time to time by updated policy guide lines.</p> <p>For Works and Service tenders of value more than Rs. 50 Cr., the Clause no. 26.0 of Electronic Reverse Auction will be applicable</p> <p>As per (a) Clause No. 7A of Part-I of GCC APRIL-2022, with up to date correction slip</p>
7.2	<p>Single Packet Tender-: In case of tenders costing less than Rs. 10 Crore single packet tender system will be followed and technical & financial offer of the tenderer/s shall be opened and evaluated at the same time.</p>
7.3	Tenderer should submit the offer with due diligence after going through the tender documents.
7.4	<p>Pre Bid Conference: In tenders having advertised value more than Rs 50 Crore or as mentioned in the tender document, DFCCIL shall conduct Pre Bid Conference(s) with the prospective bidders. (Not Applicable in this Tender)</p>
7.5	<p>Make in India: - Provisions of Make in India Policy 2017 issued by Govt. of India, as amended from time to time, shall be followed for consideration of tenders.</p> <p>As per Clause No. 7B of Part-I of GCC APRIL-2022, with up to date correction slip</p>
7.6	<p>Permission to Bid for a bidder from a country which shares Land boundary with India: Any bidder from the countries sharing a land border with India will be eligible to bid in any procurement of works (including turnkey projects) only if the bidder is registered with the Competent Authority. The Competent Authority for registration will be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT), Government of India. For interpretation of this para, Department of Expenditure, Ministry of Finance, Government of India letter F.No.6/18/2019-PPD dated 23/07/2020 shall be referred.</p>
7.7	<p>Clarification of Bids: To assist in the examination, evaluation & comparison and prequalification of the Tender, the DFCCIL may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to a request by the DFCCIL shall not be</p>

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	entertained or considered. The Railway request for clarification and the response of the bidder in this regard shall be in writing.
8.0	<p>Execution of Contract Document: The tenderer whose tender is accepted shall be required to appear in person at the office of CGM/GM-Co, DFCCIL, Ajmer, as the case may be, or if tenderer is a firm or corporation, a duly authorized representative shall appear and execute the contract agreement within seven days of notice from DFCCIL that the Contract Agreement is ready. The Contract Agreement shall be entered into by DFCCIL only after submission of valid Performance Guarantee by the Contractor. Failure to do so shall constitute a breach of the agreement affected by the acceptance of the tender. In such cases the DFCCIL may determine that such tenderer has abandoned the contract and there upon his tender and acceptance thereof shall be treated as cancelled and the DFCCIL shall be entitled to forfeit the full amount of the Earnest Money and other dues payable to the Contractor under this contract. The failed Contractor shall be debarred from participating in the re-tender for that work.</p> <p>As per clause No. 8 of Part-I of GCC APRIL-2022 , with up to date correction slip</p>
8.1	<p>In case, the particular work is charged to EBR (IF), than the Indian Railway Finance Corporation (IRFC) shall also be the party in the contract agreement. After submission of valid performance guarantee, the contract agreement shall be entered into between Indian Railways (IR), Indian Railways Finance Corporation (IRFC) and the tenderer, whose tender is accepted. The Contract Agreement shall be signed as per Annexure XXVIII of the STD. The format at Annexure IV of GCC APRIL-2022 shall not be applicable for Contract Agreement of EBR (IF) funded contracts.</p> <p>As per Railway Board's letters no 2018/AC-II/1/57(pt.) dated 20.03.20 for EBR(IF) funded contracts</p>
9.0	<p>Documents to be Submitted Along with Tender</p> <p>(i)The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / HUF/Company / Joint Venture (JV) / Registered Society / Registered Trust / LLP etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, authorized signatory and copy of PAN Card along with their tender as per proforma given in Annexure I (mandatory). Tender shall be submitted and signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be.</p> <p>(ii)The various documents to be submitted by the tenderer are as per clause 14 (ii) of the GCC APRIL-2022, the tenderer shall ensure submission of mandatory document as listed in para 16 below along with the offer.</p> <p>(iii)If it is NOT mentioned in the submitted tender that tender is being submitted on behalf of a Sole Proprietorship firm / Partnership firm / Joint Venture / Registered Company etc., then the tender shall be treated as having been submitted by the individual who has signed the tender.</p> <p>(iv)After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm / Partnership Firm / Registered Company/ Registered Trust / Registered Society / HUF etc. shall be neither asked nor considered, if not submitted. Further, no suo moto cognizance of any document available in public domain (i.e., on internet etc.) or in Railway/DFCCIL's record/office files etc. will be taken for consideration of the tender, if no such mention is available in tender offer submitted.</p> <p>(v) A tender from JV / Partnership firm etc. shall be considered only where permissible as per the tender conditions.</p> <p>(vi)The DFCCIL will not be bound by any change in the composition of the firm made subsequent to the submission of tender. DFCCIL may, however, recognize such power of attorney and</p>

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	<p>changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.</p> <p>As per Clause No. 14 of Tender Form (second sheet) Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
10.0	<p>The tenderer whether sole proprietor/ HUF/ Company or a partnership firm / LLP / joint venture (JV) / registered society / registered trust etc. if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person specifically authorizing him/them to submit the tender, sign the agreement, receive money, co-ordinate measurements through contractor's authorized engineer, witness measurements, sign measurement books, compromise, settle, relinquish any claim(s) preferred by the firm and sign "No Claim Certificate" and refer all or any disputes to arbitration. The above power of attorney shall be submitted even if such specific person is authorized for above purposes through partnership deed / Memorandum of Understanding / Article of Association or such other document, failing which tender is liable to be rejected.</p> <p>As per Clause No. 15 of Tender Form (second sheet) Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
11.0	<p>Employment/Partnership etc. of Retired Railway/DFCCIL Employees:</p> <p>(a) Should a tenderer</p>
	<p>i) be a retired Engineer of the Gazetted rank or any other Gazetted officer working before his retirement, whether in the executive or administrative capacity or whether holding a pensionable post or not, in the Engineering or any other department of any of the Railways/DFCCIL owned and administered by the President of India for the time being, OR ii) being partnership firm / joint venture (JV) / registered society / registered trust etc have as one of its partners a retired Engineer of the Gazetted rank or any other Gazetted officer working before his retirement, OR iii) being an incorporated company have any such retired Engineer of the Gazetted rank or any other Gazetted officer working before his retirement as one of its directors</p> <p>AND</p> <p>in case where such Engineer or officer had not retired from government service at least 1 year prior to the date of submission of the tender</p> <p>THEN</p> <p>the tenderer will give full information as to the date of retirement of such Engineer or gazetted officer from the said service and as to whether permission for taking such contract, or if the Contractor be a partnership firm or an incorporated company, to become a partner or director as the case may be, has been obtained by the tenderer or the Engineer or officer, as the case may be from the President of India or any officer, duly authorized by him in this behalf, shall be clearly stated in writing at the time of submitting the tender.</p> <p>b) In case, upon successful award of contract, should a tenderer depute for execution of the works under or to deal matters related with this contract, any retired Engineer of gazette rank or retired gazetted officer working before his retirement in the Engineering or any other</p>

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	<p>department of any of the Railways/DFCCIL owned and administered by the President of India for the time being, and now in his employment, then the tenderer will ensure that retired Engineer or retired gazetted officer had retired from government service at least 1 year prior to the date of his employment with tenderer and in case he had retired from service within a year then he possesses the requisite permission from the President of India or any officer, duly authorized by him in this behalf, to get associated with the tenderer.</p> <p>(c) Should a tenderer or Contractor being an individual on the list of approved Contractors, have a relative(s) or in the case of proprietorship firm/ partnership firm/ company / joint venture (JV) / registered society / registered trust/ LLP/ HUF etc. one or more of his partner(s)/shareholder(s) or member(s) of the family of partner(s)/shareholder(s) having share of more than 1% in the tendering entity employed in gazetted capacity in one or more of his shareholder(s) or a relative(s) of the shareholder(s) employed in gazetted capacity in the Engineering or any other department of the Railways/DFCCIL, the authority inviting tenders shall be informed of the fact at the time of submission of tender, failing which the tender may be disqualified/rejected or if such fact subsequently comes to light, the contract may be rescinded in accordance with provision in clause 62 of standard general conditions of contract.</p> <p>Note:-If information as required as per 11 (a), (b), (c) above has not been furnished, contract is liable to be dealt in accordance with provision of clause 62 of Standard General Condition of Contract. As per Clause No. 16, of Tender Form (second sheet) Annex. I of GCC APRIL-2022, with up to date correction slip.</p>
12.0	<p>Omissions & Discrepancies: Should a tenderer find discrepancies in or omissions from the drawings or any of the Tender Forms or should he be in doubt as to their meaning, he should at once notify the authority inviting tenders. The tender inviting authority may, if deemed necessary, clarify the same to all tenderers. It shall be understood that every endeavor has been made to avoid any error which can materially affect the basis of tender and successful tenderer shall take upon himself and provide for the risk of any error which may subsequently be discovered and shall make no subsequent claim on account thereof.</p> <p>As per Clause No. 4 of Part-I of GCC APRIL-2022, with up to date correction slip</p>
13.1(A)	<p>(i) Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate and all-inclusive in accordance with the provisions of Clause-37 of the General Conditions of Contract for the completion of works to the entire satisfaction of the Engineer. (As per Clause No. 6 (a)(i) of G.C.C. 2022 Part-I with up to date correction slip)</p> <p>(ii) Tenderers will examine the various provisions of the Central Goods and Services Tax Act, 2017 (CGST)/Integrated Goods and Services Tax Act, 2017 (IGST)/ Union Territory Goods and Services Tax Act, 2017 (UTGST)/ respective State's State Goods and Services Tax Act (SGST) also, as notified by Central/State Govt. & as amended from time to time and applicable taxes before bidding. Tenderer(s) will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates. (As per Clause No. 6 (a) (ii) of G.C.C. 2022 Part-I with up to date correction slip)</p> <p>(iii) The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to DFCCIL immediately after the award of contract, without which no payment shall be released to the</p>

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	<p>contractor. The contractor shall be responsible for deposition of applicable GST to the concerned authority. (As per Clause No. 6 (a) (iii) of G.C.C. 2022 Part-I with up to date correction slip)</p> <p>(iv) In case the successful tenderer is not liable to be registered under CGST/IGST/UTGST/SGST Act, the DFCCIL shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority.</p> <p>As per Clause No. 6(a)(iv) of Part-I of GCC APRIL-2022, with up to date correction slip.</p>
13.1(B)	<p>When work is tendered for by a firm or company, the tender shall be digitally signed by the individual legally authorized to enter into commitments on their behalf.</p> <p>As per Clause No. 6(b) of Part-I of GGC-2022, with up to date correction slip</p>
13.1(C)	<p>In E-tender, all submissions of documents are to be uploaded on web-site. There may be last minute hic-cups and delay in uploading the Documents and payment of Earnest Money etc. Tenderers/Prospective bidders are advised to upload their offer well in time. DFCCIL will not be responsible for any delay/non submission of offer due to any reason whatsoever.</p>
13.1(D)	<p>The DFCCIL will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. It may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.</p> <p>As per Clause No. 6 (c) of Part-I of GCC APRIL-2022, with up to date correction slip.</p>
13.2	<p>The tenderers shall submit a copy of certificate stating that all their statements/documents submitted along with bid are true and factual. Standard format of the certificate to be submitted by the bidder is enclosed as Annexure-II. Non submission of the certificate by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self-attested by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document.</p> <p>As per Clause No. 6.1 of Part-I of GCC APRIL-2022, with up to date correction slip.</p>
14	<u>RIGHT OF DFCCIL TO DEAL WITH TENDERS</u>
14.1	<p>If, the DFCCIL decides to negotiate, in view to bring down the rates, the tenderer, who is called for negotiation, shall furnish the following form of declaration before commencement of the negotiation:</p> <p>I/we do declare that in the event of failure of the contemplated negotiations relating to Tender No.dated..... Opened on my original tender shall remain open for acceptance on its original terms and conditions up to the date specified in the tender or the date extended by mutual agreement from time to time.</p>
14.2	The tenderer/s are required to quote his/their rates as % (percentage) Above/Below /At Par in figures on IREPS while submitting his/their offer.
15.0	<u>ELIGIBILITY CRITERIA</u>
15.1.1	<p>Technical Eligibility Criteria:</p> <p>(a) The tenderer must have successfully or substantially* completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works, each costing not less than the amount equal to 30% of advertised value of the tender,</p>

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	<p>OR</p> <p>Two similar works, each costing not less than the amount equal to 40% of advertised value of the tender,</p> <p>OR</p> <p>One similar work, each costing not less than the amount equal to 60% of advertised value of the tender.</p> <p>(b) The similar nature of work is defined as- “Execution of any 25KV or 2x25KV OHE work.</p> <p>(c) ELECTRICAL CONTRACTOR LICENSE:-</p> <ul style="list-style-type: none"> (i) The Contractor should have valid A-Class Electrical license to be submitted along with tender failing which tender would be consider ineligible (i.e. not eligible). (ii) The work shall be carried out by the contractor, having valid Electrical Contractor`s License for carrying out installation work under the direct supervision of the persons holding valid certificates of competency issued by the State Government. (iii) The successful tenderer shall furnish the names and particulars of the certificate of competency of supervisor and workmen to be engaged for carrying out this work <p>(d) To be read along with 15.8.</p>
15.1.2	<p>Technical Eligibility Criteria for JV (‘a’ or ‘b’ mentioned hereunder):</p> <p>(a) For Works without composite components: - The technical eligibility for the work as per para 15.1.1 above, shall be satisfied by either the ‘JV in its own name & style’ or ‘Lead Manager of the JV’. Each other (non-lead) member(s) of JV, who is/ are not satisfying the technical eligibility for the work as per para 15.1.1 above, shall have technical capacity of minimum 10% of the cost of work i.e., each non-lead member of JV member must have satisfactorily completed or substantially completed during the last 07 (seven) years, ending last day of month previous to the one in which tender is invited, one similar single work for a minimum of 10% of advertised value of the tender. (Not Applicable in this Tender).</p> <p>(b) For works with composite components: - (Not applicable in this Tender)</p> <p>Note for Clause 15.1.2: Value of a completed work done by a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying his/her compliance to the above-mentioned technical eligibility criteria in the tender under consideration.</p> <p>As per Clause No. 17.0-17.14 and clause 17.15 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up-to-date correction slip</p>
15.2	<p>Financial Eligibility Criteria: The tenderer must have minimum average annual contractual turnover of V/N or ‘V’ Whichever is less; where</p> <p>V= Advertised value of the tender in crores of Rupees</p> <p>N= Number of years prescribed for completion of work for which bids have been invited.</p> <p>The average annual contractual turnover shall be calculated as an average of “total contractual payments” in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover.</p> <p>The tenderers shall submit requisite information as per Annexure-VIB of GCC APRIL-2022, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.</p>

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	<p>Note: Client certificate from other than Govt. Organization should be duly supported by Form 16A/26AS generated through TRACES of Income Tax Department of India.</p> <p>As per Clause No. 10.2 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip.</p>
15.2.1	<p>Financial Eligibility for JV- (Not Applicable)</p> <p>Criteria The JV shall satisfy the requirement of “Financial Eligibility” mentioned at para 15.2 above.</p> <p>The “financial capacity” of the lead partner of JV shall not be less than 51% of the financial eligibility criteria mentioned at para 15.2 above.</p> <p>The arithmetic sum of individual “financial capacity” of all the members shall be taken as JV’s “Financial capacity” to satisfy this requirement.</p> <p>Note: Contractual payment received by a Member in an earlier JV shall be reckoned only to the extent of the concerned member’s share in that JV for the purpose of satisfying compliance of the above mentioned financial eligibility criteria in the tender under consideration.</p> <p>As per Clause No. 17.15.2 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
15.3	<p>Bid Capacity: The tender/technical bid will be evaluated based on bid capacity formula detailed as Annexure-VI of GCC APRIL-2022. (Not applicable)</p> <p>As per Clause No. 10.3 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip.</p>
15.3.1	<p>Bid Capacity for JV- (Not applicable)</p> <p>The JV shall satisfy the requirement of “Bid Capacity” requirement mentioned at para 15.3 above. The arithmetic sum of individual “Bid capacity” of all the members shall be taken as JV’s “Bid capacity” to satisfy this requirement.</p> <p>As per Clause No. 17.15.3 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
15.4	<p>No Technical and Financial credentials are required for tenders having value up to Rs 50 lakh.</p>
15.5	<p><u>Note to Para 15</u></p> <p>(i) Certificate issued by Chartered Accountants based on the audited balance sheets will also be accepted. (as per Annexure-VIII)</p> <p>The criteria for completed works shall be as under: -</p> <p>(ii) Entire work has to be completed in all respects as per contract agreement. Part completed work shall not be considered.</p> <p>(iii) Completion certificate from following organizations shall only be considered:-</p> <p>(a) The work(s) should have been directly awarded to the tenderer by Govt. Organization/ Semi Govt. Organization/ Public Sector Undertaking / Autonomous bodies/ Municipal Bodies/Public listed company having average annual turnover of Rs. 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of opening of tender</p> <p>The credentials of a wholly owned subsidiary of a parent company will also be considered in respect of works mentioned above if tender is submitted by the parent company.</p> <p>(b) Completion certificate should be as per proforma given in Annexure- IV-A or IV-B or IVC, as applicable or in the format containing all information required as per the Annexure- IV-A or IV-B or IV-C.</p>

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	<p>(c) Work experience certificate issued by Public listed company shall be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate the relevant copy of work order, bill of quantities bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received an copy of final/last bill paid by company in support of above work experience certificate.</p> <p>Details of works physically completed should be submitted in the proforma as per 'Annexure-III'.</p> <p>(iv) The total value of similar nature of work completed during the qualifying period and not the payments received within qualifying period alone, should be considered.</p> <p>In case, the final bill of similar nature of work has not been passed and final measurements have not been recorded, the paid amount including statutory deduction is to be considered. If final measurements have been recorded and work has been completed with negative variation, then also the paid amount including statutory deduction is to be considered.</p> <p>However, if final measurements have been recorded and work has been completed with positive variation but variation has not been sanctioned, original agreement value or last sanctioned agreement value whichever is lower should be considered for judging eligibility.</p> <p>(v) The amount given at Sr. No. 11 in proforma vides Annexure-IV for the completion certificate will be the value of completed work, if nomenclature of work as given in completion certificate matches with similar nature work.</p> <p>(vi) The amount mentioned at Sr. No. 12 in 'Annexure-IV' for the completion certificate shall be the value of completed work if the nomenclature of completed work includes additional components of work which are not matching with similar nature of works.</p> <p>(vii) Certificate from private individuals for whom such works are executed shall not be considered for eligibility.</p> <p>(viii) Conditional tenders are liable to be rejected straight away. DFCCIL reserves the right to reject such tenders summarily without assigning any reasons whatsoever.</p> <p>(ix) The total value of similar nature of work completed during the qualifying period and not the payments received within qualifying period alone, should be considered.</p> <p>In case, the final bill of similar nature of work has not been passed and final measurements have not been recorded, the paid amount including statutory deduction is to be considered. If final measurements have been recorded and work has been completed with negative variation, then also the paid amount including statutory deduction is to be considered.</p> <p>However, if final measurements have been recorded and work has been completed with positive variation but variation has not been sanctioned, original agreement value or last sanctioned agreement value whichever is lower should be considered for judging eligibility.</p> <p>(x) The amount given at Sr. No. 11 in proforma vide Annexure-IV for the completion certificate will be the value of completed work, if nomenclature of work as given in completion certificate matches with similar nature work.</p> <p>(xi) The amount mentioned at Sr. No. 12 in 'Annexure-IV' for the completion certificate shall be the value of completed work if the nomenclature of completed work includes additional components of work which are not matching with similar nature of works.</p> <p>(xii) Certificate from private individuals for whom such works are executed shall not be considered for eligibility.</p>
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	<p>(xiii) Conditional tenders are liable to be rejected straight away. DFCCIL reserves the right to reject such tenders summarily without assigning any reasons whatsoever.</p> <p>As per Clause No. 10.1 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
15.6	<p>Credentials if submitted in foreign currency shall be converted into Indian currency i.e., Indian Rupee as under:</p> <p>The conversion rate of US Dollars into Rupees shall be the daily representative exchange rates published by the Reserve Bank of India for the relevant date. Where, relevant date shall be as on the last day of month previous to the one in which tender is invited. In case of any other currency, the same shall first be converted to US Dollars as on the last day of month previous to the one in which tender is invited, and the amount so derived in US Dollars shall be converted into Rupees at the aforesaid rate. The conversion rate of such currencies shall be the daily representative exchange rates published by the International Monetary Fund for the relevant date or immediately previous date for which rates have been published.</p> <p>As per Clause No. 10.1 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
15.7	<p>If a bidder has successfully completed a work as subcontractor and the work experience certificate has been issued for such work to subcontractor by a Govt. organization or public listed company as defined in Note for Item 10.1 part-I of GCC, the same shall be considered for the purpose of fulfillment of credentials.</p>
15.8	<p>Explanation for clause 15 (clause 15.1 to 15.6) - Eligibility Criteria:</p> <ol style="list-style-type: none"> 1) Substantially Completed Work means an ongoing work in which payment equal to or more than 90% of the present contract value (excluding the payment made for adjustment of Price variation (PVC), if any) has been made to the contractor in that ongoing contract and no proceedings of termination of contract on Contractor's default has been initiated. The credential certificate in this regard should have been issued not prior to 60 days of date of invitation of present tender. 2) In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials. 3) If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials. 4) In case of completed work, the value of final bill (gross amount) including the PVC amount (if paid) shall be considered as the completion cost of work. In case final bill is pending, only the total gross amount already paid including the PVC amount (if paid) shall be considered as the completion cost of work. <p style="margin-left: 40px;">In case of substantially completed work, the total gross amount already paid including the PVC amount (if paid), as mentioned in the certificate, shall be considered as the cost of substantially completed work.</p> 5) If a bidder has successfully completed a work as subcontractor and the work experience certificate has been issued for such work to the subcontractor by a Govt. Organization or public listed company as defined in Note for Item 10.1 Para 10 of the Tender Form (Second Sheet) of GCC APRIL-2022, the same shall be considered for the purpose of fulfillment of credentials.

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	<p>6) In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost of that work including PVC amount if any shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.</p> <p>7) In case of newly formed partnership firm, the credentials of individual partners from previous propriety firm(s) or dissolved previous partnership firm(s) or split previous partnership firm(s), shall be considered only to the extent of their share in previous entity on the date of dissolution / split and their share in newly formed partnership firm. For example, a partner A had 30% share in previous entity and his share in present partnership firm is 20%. In the present tender under consideration, the credentials of partner A will be considered to the extent of 0.3×0.2 * value of the work done in the previous entity. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No. (s) in case of dissolution of partnership firm(s) etc.</p> <p>8) In case of existing partnership firm, if any one or more partners quit the partnership firm, the credentials of remaining partnership firm shall be re-worked out i.e., the quitting partner(s) shall take away his credentials to the extent of his share on the date of quitting the partnership firm (e.g. in a partnership firm of partners A, B & C having share 30%, 30% & 40% respectively and credentials of Rs 10 crore; in case partner C quits the firm, the credentials of this partnership firm shall remain as Rs 6 crore). For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.</p> <p>9) In case of existing partnership firm if any new partner(s) joins the firm without any modification in the name and PAN/TAN no. of the firm, the credentials of partnership firm shall get enhanced to the extent of credentials of newly added partner(s) on the same principles as mentioned in item 6 above. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deeds, dissolution/splitting deeds and proof of surrender of PAN No.(s) in case of dissolution of partnership firm etc.</p> <p>10) Any partner in a partnership firm cannot use or claim his credentials in any other firm without leaving the partnership firm i.e., In a partnership firm of A&B partners, A or B partner cannot use credentials of partnership firm of A & B partners in any other partnership firm or propriety firm without leaving partnership firm of A & B partners.</p> <p>11) In case a partner in a partnership firm is replaced due to succession as per succession law, the proportion of credentials of the previous partner will be passed on to the successor.</p> <p>12) If percentage share among partners of a partnership firm is changed, but the partners remain the same, the credentials of the firm before such modification in the share will continue to be considered for the firm as it is without any change in their value. Further, in case a partner of partnership firm retires without taking away any credentials from the firm, the credentials of partnership firm shall remain the same as it is without any change in their value.</p> <p>13) In a partnership firm "AB" of A&B partners, in case A also works as propriety firm "P" or partner in some other partnership firm "AX", credentials of A in propriety firm "P" or in other partnership firm "AX" earned after the date of becoming a partner of the firm AB shall not be added in partnership firm AB.</p> <p>14) In case a tenderer is LLP, the credentials of tenderer shall be worked out on above lines similar to a partnership firm.</p> <p>15) In case company A is merged with company B, then company B would get the credentials of company A also.</p>
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16.0	THE LIST OF DOCUMENTS TO BE UPLOADED FOR THIS TENDER (Note: - Information as required as per various Forms/Annexures to tender document should be submitted by the tenderers without fail strictly as per formats. Offers submitted without Mandatory documents shall be summarily rejected.)
16.1	Following documents are common for all types of firm i.e. Sole proprietorship, Partnership, Limited Liability Partnership Firm, Registered Society/ Trust, Limited Company or JV.
(a)	Firm details as per proforma given in Annexure-I (Mandatory) .
(b)	A Copy of the Certificate as per Performa given in Annexure-II (Mandatory) .
(c) (i)	List of similar nature of works physically completed in all respects during last 7 years, ending last day of month previous to one in which tender is invited, shall be submitted as per Performa given in Annexure-III for works (i) directly awarded by Govt./Semi Govt./Public sector undertaking / Autonomous bodies /Municipal bodies/ Railway Siding owners (ii)Concessionaire (to whom the work is awarded by Indian Railways/ DFCCIL/CPWD/NHAI/ PWD/State Road Development Corporation on PPP/DBFOT or any other mode) (iii) Public listed company having average annual turnover of Rs. 500 crores and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of opening of tender Note- Works under item (ii) are to be submitted only for tenders costing Rs.50.00 Cr. and above
(c) (ii)	Details of similar nature of works successfully during last seven years, ending last day of month previous to the one in which tender is invited as per Performa given in Annexure-III
(d)	Attested copy of Completion Certificate of works mentioned in para (c) above from the Organizations with whom they worked as per proforma given in Annexure-IV-A or IV-B or IV-C as applicable. (Mandatory)
(e)	Secondary Components-(Not Applicable in this Tender).
(f)	List of works on hand, existing commitments and balance amount of ongoing works as per format given in ' Annexure-V Duly verified by Chartered Accountant to evaluate bid capacity of the tenderer (Mandatory for tender value more than Rs. 20 crores) .'
(g)	A statement showing construction works executed and payment received during the previous three financial years and the current financial year (up to date of inviting tender), taking into account the completed as well as work in progress as per Annexure-XIX on the letter head of Chartered Accountant, to evaluate bid capacity of the tenderer (Mandatory for tender value more than Rs. 20 Crores)
(h)	List of plants & Machinery available on hand (own) and proposed to be inducted (own and hired to be given separately) for the subject work in Annexure-VI .
(i)	List of Personnel, Organization available on hand and proposed to be engaged for the subject work in Annexure -VII .
(j)	Earnest money should be in proper form. Earnest Money submitted by the tenderer only through net banking or payment gateway in favour of CPM DFCCIL, Ajmer or as mentioned in the tender document.
(k)	Contractual Receipts for the last three years and current financial year with supporting documents required as per Annex. VIII (Mandatory)

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(l)	Self-attested copy of Permanent Account Number (PAN) issued by Income Tax Department.
(m)	The tenderers are required to submit the information and particulars regarding retired Railway/DFCCIL Engineer(s)/Officer(s) of the Gazetted rank and regarding Relative(s) employed in Gazetted capacity on DFCCIL as per proforma given in Annexure XXIII (Mandatory)
16.2	In addition to Para 16.1 above certain more documents are to be submitted by tenderers as per status of their firms and are mandatory . These documents are listed below
16.2.1	<p><u>FOR SOLE PROPRIETORSHIP FIRM</u></p> <p>a) Affidavit as per proforma given of Annexure –IX (duly executed on stamp paper and notarized).</p> <p>b) Special power of Attorney to be submitted by sole proprietor firm as per proforma given in Annexure XIV (duly registered with the Registrar or notarized). (Not required if tender documents are submitted by proprietor himself as per (a) above)</p>
16.2.2	<p><u>FOR HUF (HINDU UNDIVIDED FAMILY)</u></p> <p>(a) Affidavit as per proforma given of Annexure –XXIX (duly executed on stamp paper and notarized).</p> <p>(b) Special power of Attorney to be submitted by the HUF as per proforma given in Annexure XXX (duly registered with the Registrar or notarized). (Not required if tender documents are submitted by Karta of the HUF, himself as per (a) above)</p>
16.2.3	<p><u>FOR PARTNERSHIP FIRM</u></p> <p>a) A copy of Partnership Deed (Notarized or duly registered with the Registrar prior to date of tender opening as per the Indian Partnership Act)</p> <p>(b) Special Power of attorney to be submitted by Partnership firm in favour of the individual to sign the tender on behalf of the firm and create liability against the firm as per proforma given in Annexure-XIII (duly registered with the Registrar or notarized). (Required even if one or more partners are authorized in Partnership deed itself to sign on behalf of the firm as given in (a) above.</p> <p>(c) Declaration by the newly formed partnership firm as per proforma given in Annexure-XXXI. (mandatory if tenderer is newly formed partnership firm)</p> <p>(d) Declaration by the existing partnership firm as per proforma given in Annexure-XXXII. (mandatory if tenderer is an existing partnership firm)</p> <p>(e) With respect to the declaration above, in case of Newly formed partnership firm has/ have as one or more partner(s) from previous propriety firm(s) or dissolved previous partnership firm(s) or LLP firm or split previous partnership firm(s) or LLP firm, Existing partnership firm (a) joining of new one or more partner(s) in the existing partnership firm, (b) quitting of new one or more partner(s) from the existing partnership firm –</p> <p>Following additional documents are required to be furnished (mandatory as applicable)</p> <p>a) Details of previous Propriety firm / Partnership Firm/ LLP firm as per annexure I</p> <p>b) A copy of previous partnership Firm (Notarized or duly registered with the Registrar)</p> <p>c) Affidavit as per proforma given of Annexure –IX for previous Propriety firm (duly executed on stamp paper and notarized).</p> <p>d) Copy of previous LLP agreement and certificate of incorporation.</p> <p>e) Dissolution deed/ splitting deed of the previous partnership deed or LLP agreement (in case of dissolution of previous partnership firm/ LLP firm)</p>

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	<p>f) Proof of surrender of previous PAN no (in case of dissolution of previous partnership firm, g) LLP firm or propriety firm)</p> <p>h) Documents for the technical, financial criteria, bid capacity as claimed w.r.t. such partner(s) joining the new/ existing partnership firm, as per para 16.1 (c), (d), (f),(g), (k) above.</p> <p>As per Clause No. 14(ii)(c), 15, 18 & explanation to Clause 10.1 to 10.5 of Annex. I Part-I of GCC APRIL-2022, with up to date correction slip)</p>
16.2.4	<p><u>FOR COMPANY REGISTERED UNDER COMPANIES ACT 2013</u></p> <p>a) Copy of Memorandum of association/ Articles of Association of Company.</p> <p>b) Copy of Certificate of Incorporation</p> <p>(c) Copy of resolution passed by Board of Directors authorizing its Director/Employee to deal with tender on behalf of company</p> <p>(d) Special Power of Attorney/ Authorization issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender, sign the MOU/ JV agreement on behalf of the company and create liability against the Company, as per proforma given in Annexure-XV (duly registered with the Registrar or notarized). (Required even if tender documents are submitted by the authorized/ power of attorney holder himself as per (c) above)</p> <p>(e) Declaration regarding constitution of the Company, for merging of another company, details required for the entire period for last seven years as per proforma given in Annexure-XXXIII.</p> <p>(f) Following additional documents are required to be furnished (mandatory in case of merger with another company)</p> <ol style="list-style-type: none"> (1) Details of company getting merged as per annexure I (2) Copy of Memorandum of Association/ Articles of Association of the Company getting merged (3) Copy of certificate of incorporation of previous company getting Merged (4) Resolution by the Board of Directors for the Merger of the company(s) with the tenderer (5) Proof of surrender of previous PAN no (6) Document for the technical, financial criteria, bid capacity as claimed w.r.t. such Company(s) joining the new/Existing Company as per para 16.1 (c), (d), (f), (g), (k) above. <p>As per Clause No. 14 (ii)(e), 15 & explanation to Clause 10.1 to 10.5 of Annex. I Part-I of GCC APRIL-2022, with up to date correction slip .</p>
16.2.5	<p><u>FOR LLP FIRM REGISTERED UNDER LLP ACT 2008</u></p> <p>(a) A copy of LLP Agreement.</p> <p>(b) A copy of certificate of Incorporation and</p> <p>(c) A copy of resolution passed by partner of LLP firm for submitting tender by LLP firm and to deal with tender on behalf of the firm as per proforma given in Annexure-XXI.</p> <p>(d) Special Power of Attorney/ Authorization issued by LLP firm in favor of the individual to sign the tender on behalf of the LLP firm and create liabilities against the LLP as per proforma given in Annexure-XXV (duly registered with the Registrar or notarized). (Required even if tender documents are submitted by the authorized/ power of attorney holder himself as per (c) above)</p> <p>(e) Declaration by the newly formed LLP firm as per proforma given in Annexure-XXXI. (mandatory if tenderer is newly formed partnership firm)</p> <p>(e) Declaration by the existing LLP firm as per Performa given in Annexure-XXXII.</p>

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	<p>(mandatory if tenderer is an existing partnership firm) (f) With respect to the declaration above, in case of</p> <p>(i) Newly formed LLP firm has/ have as one or more partner(s) from previous propriety firm(s) or dissolved previous partnership firm(s) or LLP firm or split previous partnership firm(s) or LLP firm, existing LLP firm (a) joining of new one or more partner(s) in the existing LLP firm,</p> <p>(ii) quitting of new one or more partner(s) from the existing LLP firm –</p> <p>Following additional documents are required to be furnished (mandatory as applicable)</p> <p>(1) Details of previous Propriety firm / Partnership Firm/ LLP firm as per annexure I</p> <p>(2) A copy of previous partnership Firm (Notarized or duly registered with the Registrar)</p> <p>(3) Affidavit as per proforma given of Annexure –IX for previous Propriety firm (duly executed on stamp paper and notarized).</p> <p>(4) (4) Copy of previous LLP agreement and certificate of incorporation.</p> <p>(5) Dissolution deed/ splitting deed of the previous partnership deed or LLP agreement (in case of dissolution of previous partnership firm/ LLP firm)</p> <p>(6) Proof of surrender of previous PAN no (in case of dissolution of previous partnership firm, LLP firm or propriety firm)</p> <p>(7) Documents for the technical, financial criteria, bid capacity as claimed w.r.t. such partner(s) joining the new/ existing partnership firm, as per para 16.1 (c), (d), (f), (g), (k) above.</p> <p>As per Clause No. 14(f), 15 & explanation to Clause 10.1 to 10.5 of Annex. I Part-I of GCC APRIL-2022, with up to date correction slip</p>
16.2.6	<p><u>FOR REGISTERED SOCIETY & REGISTERED TRUST</u></p> <p>(a) A copy of the certificate of registration.</p> <p>(b) A copy of Memorandum of Association of Society/Trust Deed</p> <p>(c) A copy of Rules & Regulations of the Society</p> <p>(d) A copy of Special Power of Attorney/ Authorization in favor of the individual to sign the tender and create liabilities against the Registered Society/ Trust as per proforma given in Annexure-XXII (duly registered with the Registrar or notarized). (Required even if tender documents are submitted by the authorized/ power of attorney holder himself as per (a), (b) above)</p> <p>As per Clause No. 14(g), 15 Annex. I Part-I of GCC APRIL-2022, with up to date correction slip</p>
16.2.7	<p><u>FOR JV FIRM:- (Not Applicable in this tender)</u></p> <p>Following documents are mandatorily to be submitted by constituents of the JV firm depending upon their status</p> <p>As per clause no. 14(d), 17.0 Annex. I Part-I, GCC APRIL-2022, with up to date correction slip</p> <p>a) Memorandum of Understanding of JV as per pro forma given in Annex. X (duly executed on stamp paper and notarized)</p>
16.2.7.1	<p><u>DOCUMENTS MANDATORY FOR SOLE PROPRIETORSHIP FIRM PARTICIPATING AS MEMBER OF JV</u></p> <p>(a) Affidavit as per proforma given of Annexure –IX (duly executed on stamp paper and notarized).</p>

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	<p>(b) Special Power of Attorney to be submitted by Sole Proprietor participating as member of JV firm as per proforma given in Annexure-XII (duly registered with the Registrar or notarized) (Not Required if MOU/JV agreement is signed by the sole Proprietor himself as per (a) above).</p> <p>As per Clause No.15 Annex. I of Part-I GCC APRIL-2022, with up to date correction slip</p>
16.2.7.2	<p><u>DOCUMENTS MANDATORY FOR HUF (HINDU UNDIVIDED FAMILY) PARTICIPATING AS MEMBER OF JV</u></p> <p>(a) Affidavit as per proforma given of Annexure –XXIX (duly executed on stamp paper and notarized).</p> <p>(b) Special Power of Attorney to be submitted by HUF participating as member of JV firm as per proforma given in Annexure-XII (duly registered with the Registrar or notarized) (Not required if MOU/JV agreement is signed by the Karta of HUF himself as per (a) above).</p> <p>As per Clause No. 17.14.2, 15 Annex. I of Part-I GCC APRIL-2022, with up to date correction slip</p>
16.2.7.3	<p><u>DOCUMENTS MANDATORY FOR PARTNERSHIP FIRM PARTICIPATING AS MEMBER OF JV</u></p> <p>(a) Copy of Partnership Deed (duly registered with the Registrar or notarized prior to date of tender opening as per the Indian Partnership Act.).</p> <p>(b) Copy of letter of consent of all the Partners or individual authorized by partnership firm to enter into JV Agreement as per Performa given in Annex-XI (duly executed on stamp paper).</p> <p>(c) Special Power of attorney to be submitted by Partnership firm in favor of the individual to sign the tender, to sign the MOU/JV agreement on behalf of the Partnership Firm and to create liability against the firm as per Performa given in Annexure-XVIII (duly registered with the Registrar or notarized). (Required even if MOU/JV agreement is signed by one or more partners authorized in Partnership deed, letter of consent to sign on behalf of the firm is given in (a), (b) above)</p> <p>As per Clause 17.14.1, 15 & 18.2 of Annex. I Part-I GCC APRIL-2022, with up to date correction slip</p>
16.2.7.4	<p><u>DOCUMENTS MANDATORY FOR COMPANY PARTICIPATING AS MEMBER OF JV</u></p> <p>a) A Copy of Memorandum of Association/ Articles of Association of Company.</p> <p>b) A Copy of certificate of Incorporation</p> <p>c) A Copy of resolutions passed by Board of Directors of the Company permitting the Company to enter into a JV agreement, to be submitted as per Annexure-XVII.</p> <p>d) Special Power of Attorney/ Authorization issued by the Company (backed by the Resolution of Board of Directors) in favor of the individual to sign the tender, to sign the MOU/JV agreement on behalf of the company and create liability against the Company, as per proforma given in Annexure-XII (duly registered with the Registrar or notarized). (Required even if MOU/JV agreement is signed by the authorized/ power of attorney holder himself as per (c) above)</p> <p>As per Clause No. 17.14.3, 15 of Annex. I Part-I GCC APRIL-2022, with up to date correction slip</p>
16.2.7.5	<p><u>DOCUMENTS MANDATORY FOR LLP FIRM PARTICIPATING AS MEMBER OF JV</u></p> <p>(a) A copy of LLP agreement.</p> <p>(b) A copy of Certificate of incorporation of LLP</p> <p>(c) A copy of Resolution passed by the partners of LLP firm permitting the firm to enter into a JV agreement to be submitted as per Performa given in Annexure-XXIV</p>

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	<p>(d) Special Power of Attorney/ Authorization issued by LLP firm (backed by resolution of partners) in favor of the individual to sign the tender, sign the MOU/ JV agreement on behalf of the LLP firm and create liabilities against the LLP firm as per proforma given in Annexure XX(duly registered with the Registrar or notarized).(Required even if MOU/JV agreement is signed by the authorized/ power of attorney holder himself as per (c) above)</p>
16.27.6	<p>DOCUMENTS MANDATORY FOR REGISTERED SOCIETY AND TRUST PARTICIPATING AS A MEMBER OF JV</p> <p>(a) A copy of Deed of Formation</p> <p>(b) A copy of certificate of Registration.</p> <p>(c) A copy of Resolution passed by the executive members of Registered Society/Trust permitting the registered society/Trust to enter into a JV agreement as per proforma given in Annexure XXVI.</p> <p>(d) Special Power of Attorney/ Authorization issued by the registered society/ trust (backed by resolution of partners) in favour of the individual to sign the tender, to sign the MOU/ JV agreement and create liabilities against the Registered Society/ Trust as per proforma given in Annexure-XXVII(duly registered with the Registrar or notarized). (Required even if tender documents are submitted by the authorized/ power of attorney holder himself as per (c) above)</p> <p>(e) A copy of Rules & Regulations of the Society.</p>
	<p>Note to Para 16</p> <p>1. The tenderers shall submit a certificate stating that they are not liable to be disqualified and all their statements/documents submitted along with bid are true and factual. Standard format of the certificate to be submitted by the bidder is enclosed as Annexure-II as mentioned in clause No. 16.1(b). Non submission of a certificate by the bidder shall result in summarily rejection of his/their bid. And it shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self-attested by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document.</p> <p>2. It will not be obligatory on the part of Tender Committee to scrutinize beyond the submitted document of tenderer as far as his qualification for the tender is concerned.</p> <p>3. The DFCCIL reserves the right to verify all statements, information and documents submitted by the bidder in his tender offer, and the bidder shall, when so required by the DFCCIL, make available all such information, evidence and documents as may be necessary for such verification.</p> <p>4. Any such verification or lack of such verification by the DFCCIL shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of the DFCCIL there under.</p> <p>4.1 In case of any wrong information submitted by tenderer, the contract shall be terminated, Earnest Money Deposit (EMD), Performance Guarantee (PG) and Security Deposit (SD) of contract forfeited and agency barred for doing business on entire DFCCIL for 5 (five) years.</p> <p>4.2 In case of any information submitted by tenderer is found to be false forged or incorrect after the award of contract, the contract shall be terminated. Earnest Money Deposit (EMD), Performance Guarantee and Security Deposit available with the DFCCIL shall be forfeited. In addition, other dues of the contractor, if any, under this contract shall be forfeited and agency shall be banned for doing business for a period of up to five years.</p> <p>5. No post tender submission of documents shall be permitted in respect of tender. However, only clarification can be called for by DFCCIL in respect of any part / document submitted by the tenderer which shall be responded to by the tenderer within 10 working days of the date of</p>

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	<p>issue of such letter for clarifications, failing which the offer shall be dealt with as per available documents.</p> <p>6. The documents mentioned 'mandatory' in clause No. 16 above are required to be uploaded by the contractor with tender document. If any of these documents is not uploaded along with the tender, the offer shall be summarily rejected.</p> <p>7. In addition to above Tenderer have to certify that neither I /We (name of the sole Proprietor firm/ Partnership Firm/Limited Company/ LLP/Registered Society/Trust / JV firm) nor any of the partner or partnership firm/ LLP /Member of Registered Society/ Trust / Constituent of JV firm including partner of partnership firm in JV has/ have been black listed or debarred by DFCCIL or any other Ministry /Department/ Public Sector Undertaking of the Government of India/ any State from participation in tenders/contract on the date of opening of bids either in our individual capacity or in any firm in which we are partners.</p> <p>As per Clause No. 11(v),11(vi) Annexure 1 part I of GCC APRIL-2022, with up to date correction slip</p>
17.0	<p>Participation of Partnership Firms in works tenders</p> <p>The partnership firm shall be governed as per Clause No. 18.1 to 18.12 of Tender Form (second Sheet) Annex. I Part-I of GCC APRIL-2022, with up to date correction slip.</p>
18.0	<p>Participation of Joint Venture (JV) in Works Tender shall be governed as per Clause No. 17 of Tender Form (second Sheet) Annex. I Part-I of GCC APRIL-2022, with up to date correction slip. :</p>
19.	<p>The tenderer shall submit the original copies of the documents as per Annexure II, IX, X, XI, XII, XIII, XIV, XV, XVII, XVIII, XX, XXI, XXII, XXIII, XXIV, XXV , XXVI and XXVII etc. as applicable for Sole Proprietor/Partnership firm/LLP/Registered Society & Trust /Limited Company/JV Firms as and when required by the DFCCIL for the verification. If the required documents are not submitted by the tenderer or any discrepancy between the scanned uploaded documents and original documents then the offer of the tenderer will be summary rejected and the action will be taken as per the various provisions of Affidavit to be submitted by the tenderer as per Annexure-II.</p>
20.0	<p>Security Deposit:</p>
20.1	<p>The Earnest Money deposited by the Contractor with his tender will be retained by the DFCCIL as part of security for the due and faithful fulfillment of the contract by the Contractor. The Security Deposit shall be 5% of the contract value. Security Deposit may be deposited by the Contractor before release of first on account bill in cash or Term Deposit Receipt issued from Scheduled Bank, or may be recovered at the rate of 6% of the bill amount till the full Security Deposit is recovered. Provided also that in case of defaulting Contractor, the DFCCIL may retain any amount due for payment to the Contractor on the pending "on account bills" so that the amounts so retained (including amount guaranteed through Performance Guarantee) may not exceed 10% of the total value of the contract.</p> <p>Further, in case of contracts having value equal to or more than Rs. 50 crore (Rs Fifty crore) the Security Deposit may be deposited as Bank Guarantee Bond also, issued by a scheduled bank after execution of contract documents, but before payment of 1st on account bill. Provided further that the validity of Bank Guarantee Bond shall be extended from time to time, depending upon extension of contract granted in terms of Clause 17 of the Standard General Conditions of Contract. Further, in case Security Deposit has been submitted as Term Deposit Receipt/Bank Guarantee Bond in full amount, the Earnest Money deposited by the Contractor with his tender will be returned by the DFCCIL.</p>

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	<p>Note: Security Deposit deposited in cash by the Contractor or recovered from the running bills of a Contractor or submitted by contractor as Term Deposit Receipt(s) can be refunded/returned to the contractor, in lieu of irrevocable Bank Guarantee bond issued from scheduled commercial bank of India, to be submitted by him, for an amount equal to or more than the already available Security Deposit, provided however that, in a contract of value less than Rs. 50 Crore, such refund/ return of the already available Security Deposit is permitted up to two times and in a contract of value equal to or more than Rs. 50 Crore, such refund / return of the already available Security Deposit is permitted up to three times.</p> <p>As per Clause No. 16.(1) Part-II of GCC APRIL-2022 , with up to date correction slip</p>
20.2	<p>Refund of Security Deposit: Security Deposit mentioned in sub clause (1) above shall be returned to the Contractor along with or after the following:</p> <ul style="list-style-type: none"> (a) Final Payment of the Contract as per clause 51.(1) and (b) Execution of Final Supplementary Agreement or Certification by Engineer that DFCCIL has No Claim on Contractor and (c) Maintenance Certificate issued, on expiry of the maintenance period as per clause 50 (1), in case applicable. <p>As per Clause No. 51.(1) and 16.2(i) Part-II of GCC APRIL-2022, with up to date correction slip</p>
20.3	<p>Forfeiture of Security Deposit: Whenever the contract is rescinded as a whole under clause 62 (1) of GCC, the Security Deposit already with DFCCIL under the contract shall be forfeited. However, in case the contract is rescinded in part or parts under clause 62 (1) of GCC, the Security Deposit shall not be forfeited.</p> <p>As per Clause No. 16.2(ii) Part-II of GCC APRIL-2022, with up to date correction slip</p>
21.0	<p>No interest shall be payable upon the Earnest Money and Security Deposit or amounts payable to the Contractor under the Contract, but Government Securities deposited in terms of Sub Clause 16.(4)(b) of GCC APRIL-2022 with up to date correction slip will be payable with interest accrued thereon.</p> <p>As per Clause No. 16.3, Part-II of GCC APRIL-2022, with up to date correction slip</p>
22.0	<p>Performance Guarantee</p> <p>The procedure for obtaining Performance Guarantee is outlined below:</p> <ul style="list-style-type: none"> (a) The successful bidder shall have to submit a Performance Guarantee (PG) within 21 (Twenty one) days from the date of issue of Letter of Acceptance (LOA). Extension of time for submission of PG beyond 21 (Twenty one) days and up to 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12% per annum shall be charged for the delay beyond 21(Twenty one) days, i.e. from 22nd day after the date of issue of LOA. Further, if the 60th day happens to be a declared holiday in the concerned office of the DFCCIL, submission of PG can be accepted on the next working day. In all other cases, if the Contractor fails to submit the requisite PG even after 60 days from the date of issue of LOA, the contract is liable to be terminated. In case contract is terminated DFCCIL shall be entitled to forfeit Earnest Money Deposit and other dues payable against that contract. In case a tenderer has not submitted Earnest Money Deposit on the strength of their registration as a Startup recognized by Department of Industrial Policy and Promotion (DIPP) under Ministry of Commerce and Industry, DIPP shall be informed to this effect. <p>The failed Contractor shall be debarred from participating in re-tender for that work.</p>

- (b) The successful bidder shall submit the Performance Guarantee (PG) in any of the following forms, amounting to 5% of the contract value.
- (i) A deposit of Cash
 - (ii) Irrevocable Bank Guarantee;
 - (iii) Insurance Surety Bond as per **Annexure-XXXVII**.
- Note:**
- 1. *The provision of insurance Surety Bond shall be for all contracts having DOC within 36 months only.*
 - 2. *In case DOC extends beyond 36 months, fresh Insurance Surety Bond or any other form of Performance Guarantee prescribed in GCC for the balance amount shall be submitted by agency, otherwise necessary action will be taken as per terms of Agreement.*
- (iv) Government Securities including State Loan Bonds at 5% below the market value;
 - (v) Deposit Receipts, Pay Orders, Demand Drafts and Guarantee Bonds. These forms of Performance Guarantee could be either of the State Bank of India or of any of the Nationalized Banks;
 - (vi) Guarantee Bonds executed or Deposits Receipts tendered by all Scheduled Banks;
 - (vii) Deposit in the Post Office Saving Bank;
 - (viii) Deposit in the National Savings Certificates;
 - (ix) Twelve years National Defense Certificates;
 - (x) Ten years Defense Deposits;
 - (xi) National Defense Bonds and
 - (xii) Unit Trust Certificates at 5% below market value or at the face value whichever is less. Also, FDR in favour of CPM, DFCCIL, Ajmer (free from any encumbrance) may be accepted.
- (c) The Performance Guarantee shall be submitted by the successful bidder after the Letter of Acceptance (LOA) has been issued, but before signing of the contract agreement. This P.G. shall be initially valid up to the stipulated date of completion plus 60 days beyond that. In case, the time for completion of work gets extended, the Contractor shall get the validity of P.G. extended to cover such extended time for completion of work plus 60 days.
- (d) The value of PG to be submitted by the Contractor is based on original contract value and shall not change due to subsequent variation(s) in the original contract value.
- (e) The Performance Guarantee (PG) shall be released after physical completion of the work based on 'Completion Certificate' issued by the competent authority stating that the Contractor has completed the work in all respects satisfactorily. **(Completion certificate shall be governed as per As per Clause No.48.(1) & 48.(2), Part-II of GCC APRIL-2022, with up to date correction slip**
- (f) Whenever the contract is rescinded, the Performance Guarantee already submitted for the contract shall be encased.
 - (g) The Engineer shall not make claim under the Performance Guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the agreement) in the event of:
 - (i) Failure by the Contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer may claim the full amount of the Performance Guarantee.

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	<p>(ii) Failure by the Contractor to pay President of India any amount due, either as agreed by the Contractor or determined under any of the Clauses/Conditions of the Agreement, within 30 days of the service of notice to this effect by Engineer.</p> <p>(iii) The Contract being determined or rescinded under clause 62 of the GCC</p> <p>As per Clause No.16.(4), Part-II of GCC APRIL-2022, with up to date correction slip</p>
23	MEASUREMENTS OF CONTRACTOR WORKS.
23.1	<p>The tenderer whether sole proprietor, a company or a partnership firm / joint venture (JV) / registered society /registered trust etc. if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favor of the specific person whether he/they be partner(s) of the firm or any other person specifically authorizing him/them to submit the tender, sign the agreement, receive money, co-ordinate measurements through contractor's authorized engineer, witness measurements, sign measurement books, compromise, settle, relinquish any claim(s) preferred by the firm and sign "No Claim Certificate" and refer all or any disputes to arbitration.</p> <p>As per Clause No. 15 of Annexure I part 1 of GCC APRIL-2022, with up to date correction slip</p>
23.2	<p>Measurement of works by DFCCIL:</p> <p>The contractor shall be paid for the works at the rates in the accepted Schedule or Rates and for extra works at rates determined under Clause 39 of these Conditions on the measurements taken by the Engineer or the Engineer's representative in accordance with the rules prescribed for the purpose by the DFCCIL. The quantities for items the unit of which in the accepted Schedule of Rates is 100 or 1000 shall be calculated to the nearest whole number, any fraction below half being dropped and half and above being taken as one, for items the unit of which in the accepted Schedule of Rates is single, the quantities shall be calculated to two places of decimals. Such measurements will be taken of the work in progress from time to time and at such intervals as in the opinion of the Engineer shall be proper having regard to the progress of works. The date and time on which 'on account' or 'final' measurements are to be made shall be communicated to the contractor who shall be present at the site and shall sign the results of the measurements (which shall also be signed by the Engineer or the Engineer's representative) recorded in the official measurements book as an acknowledgement of his acceptance of the accuracy of the measurements. Failing the contractor's attendance, the work may be measured up in his absence and such measurements shall notwithstanding such absence, be binding upon the contractor whether or not he shall have signed the measurement books provided always that any objection made by him to measurement shall be duly investigated and considered in the manner set out below:</p> <ol style="list-style-type: none"> It shall be open to the contractor to take specific objection to any recorded measurements or Classification on any ground within seven days of the date of such measurements. Any re-measurement taken by the Engineer or the Engineer's representative in the presence of the Contractor or in his absence after due notice has been given to him in consequence of objection made by the Contractor shall be final and binding on the Contractor and no claim whatsoever shall thereafter be entertained regarding the accuracy and classification of the measurements. If an objection raised by the Contractor is found by the Engineer to be incorrect the Contractor shall be liable to pay the actual expenses incurred in measurements. <p>(As per Clause No. 45 (i), Part-II of GCC APRIL-2022, with up to date correction slip)</p>

23.2.1	<p>Measurement of Works by Contractor's Authorized Representative (In case the contract provides for the same):</p> <p>(a) The contractor shall be paid for the works at the rates in the accepted Schedule of Rates and for extra works at rates determined under Clause 39 part II of GCC APRIL-2022, with up to date correction slip on of these conditions on the measurements taken by the contractor's authorized engineer in accordance with the rules prescribed for the purpose by the DFCCIL. The quantities for items the unit of which in the accepted schedule of Rates is 100 or 1000 shall be calculated to the nearest whole number, any fraction below half being dropped and half and above being taken as one; for items the unit of which in the accepted Schedule of Rates is single, the quantities shall be calculated to two places of decimals. Such measurements will be taken of the work in progress from time to time. The date and time on which 'on account' or 'final' measurements are to be made shall be communicated to the Engineer.</p> <p>The date and time of test checks shall be communicated to the contractor who shall be present at the site and shall witness the test checks, failing the contractor's attendance the test checks may be conducted in his absence and such test checks shall notwithstanding such absence be binding upon contractor provided always that any objection made by contractor to test check shall be duly investigated and considered in the manner set out below:</p> <p>i) It shall be open to the contractor to take specific objection to test checks of any Recorded measurement within 7 days of date of such test checks. Any re-test check done by the concerned DFCCIL's authority in the presence of the Contractor or in his absence after due notice given to him in consequent of objection made by the contractor shall be final and binding on the Contractor and no claim whatsoever shall thereafter be entertained regarding the accuracy and classification of the measurements.</p> <p>ii) If an objection raised by the Contractor is found by the Engineer to be incorrect the Contractor shall be liable to pay the actual expenses incurred in measurements.</p> <p>(b) Incorrect measurement, actions to be taken : If in case during test check or otherwise, it is detected by the Engineer that agency has claimed any exaggerated measurement or has claimed any false measurement for the works which have not been executed; amounting to variation of 5% or more of claimed gross bill amount, action shall be taken as following :</p> <p>(i) On first occasion of noticing exaggerated/false measurement, engineer shall recover liquidated damages equal to 10% of claimed gross bill value.</p> <p>(ii) On any next occasion of noticing any exaggerated/false measurement, DFCCIL shall recover liquidated damages equal to 15% of claimed gross bill value. In addition the facility of recording of measurements by contractor as well as release of provisional payment shall be withdrawn. Once withdrawn, measurements shall be done by DFCCIL as per clause 45(i) of GCC APRIL-2022.</p> <p>The detailed procedure for recording of measurements, provisional payment, test check, final payment etc. shall be as per para 1316 A of the Indian Railway Code for Engineering Department.</p> <p>As per Clause No. 45 (ii), Part-II of GCC APRIL-2022, with up to date correction slip</p> <p>Note:- 'Contractor's authorized engineer' shall mean a graduate engineer or equivalent, having more than 3 year experience in the relevant field of construction work involved in the contract, duly approved by Executive/Sr. Executive/JPM/APM/DPM/PM/Dy.CPM /CPM/GM-Co/CGM.</p> <p>As per Clause No. 1(1)(q), Part-II of GCC APRIL-2022, with up to date correction slip</p>
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	(Measurement of works by authorized representative) shall be applicable only for those contracts where specifically mentioned in additional special conditions of contract.
24	PAYMENT OF CONTRACTUAL WORKS
24.1	“On-Account” Payments: The contractor shall be entitled to be paid from time to time by way of “On-Account” payment only for such works as in the opinion of the Engineer he has executed in terms of the contract. All payments due on the Engineer’s/Engineer’s Representative’s certificates of measurements or Engineer’s certified “Contractor’s authorized engineer’s measurements” shall be subject to any deductions which may be made under these presents and shall further be subject to, unless otherwise required by Clause 16 of these Conditions, a retention of ten percent by way of Security Deposits, until the amount of Security Deposit by way of retained earnest money and such retentions shall amount to 6% of the total value of the contract provided always that the Engineer may by any certificate make any correction or modification in any previous certificate which shall have been issued by him and that the Engineer may withhold any certificate, if the works or any part thereof are not being carried out to his satisfaction.
24.2	Rounding off Amounts: - The total amount due on each certificate shall be rounded off to the nearest rupee, i.e. sum less than 50 paise shall be omitted and sums of 50 paise and more up to ₹ 1 will be reckoned as ₹ 1.
24.3	On account Payments Not Prejudicial to Final Settlement “On-Account” payments made to the Contractor shall be without prejudice to the final making up of the accounts (except where measurements are specifically noted in the Measurement Book as “Final Measurements” and as such have been signed by the Contractor and Engineer’s/ Engineer’s Representative) and shall in no respect be considered or used as evidence of any facts stated in or to be inferred from such accounts nor of any particular quantity of work having been executed nor of the manner of its execution being satisfactory.
24.4	Final Payment: On the Engineer's certificate of completion in respect of the works, adjustment shall be made and the balance of account based on the Engineer or the Engineer's representative's certified measurements or Engineer’s certified “contractor’s authorized engineer’s measurements” of the total quantity of work executed by the Contractor up to the date of completion and on the accepted schedule of rates and for extra works on rates determined under Clause 39 of these Conditions shall be paid to the Contractor subject always to any deduction which may be made under these presents and further subject to the Contractor having signed delivered to the Engineer enclosing either a full account in detail of all claims he may have on the DFCCIL in respect of the works or having delivered No Claim Certificate and the Engineer having after the receipt of such account given a certificate in writing that such claims are not covered under excepted matter i.e. Clauses 7(j), 8, 18, 22(5), 39, 43(2), 45(a), 48(1), 48(2), 48(3), 55, 55-A(5), 57, 57A, 61(1), 61(2) and 62(1)(i) to xv (B) of Standard General Conditions of Contract or in any Clause(stated as excepted matter) of the Special Conditions of the Contract, that the whole of the works to be done under the provisions of the Contracts have been completed, that they have been inspected by him since their completion and found to be in good and substantial order, that all properties, works and things, removed, disturbed or injured in consequence of the works have been properly replaced and made good and all expenses and demands incurred by or made upon the DFCCIL for or in the respect of damage or loss by from or in consequence of the works, have been satisfied agreeably and in conformity with the contract.

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25.0	INSTRUCTIONS OF MODE OF PAYMENT IN WORKS TENDERS OR SERVICE TENDER THROUGH LETTER OF CREDIT (LC)
25.1.1	For all the tenders having advertised cost of Rs. 10 lakh or above, the contractor shall have the option to take payment from DFCCIL through a letter of credit (LC) arrangement.
25.1.2	This option of taking payment through LC arrangement has to be exercised in IREPS (Indian Railways Electronic Procurement System - the e-application on which tenders are called by DFCCIL) by the tenderer at the time of bidding itself, and the tenderer shall affirm having read over and agreed to the terms and conditions of the LC option.
25.1.3	The option so exercised, shall be an integral part of the bidder's offer.
25.1.4	<p>The above option of taking payment through LC arrangement, once exercised by tenderer at the time of bidding, shall be final and no change shall be permitted, thereafter, during execution of contract.</p> <p>In case tenderer opts for payment through LC following shall be the procedure to deal release of payment through LC:</p> <p>(a) The LC shall be a sight LC,</p> <p>(b) The contractor shall select his Advising/Negotiating bank for LC. The incidental cost towards issue of LC and its operation thereof shall be borne by the contractor.</p> <p>(c) SBI, New Delhi, Main Branch will be the nodal branch for issue of LCs based on online requests received from DFCCIL Accounts Units for tenders opened in financial year 202019. SBI branches where the respective DFCCIL Accounts Office has its Account (local SBI branch) will be the issuance/ reimbursing branch for LC issued under this arrangement. The Bank shall remain same for this tender till completion of contract. The incidental cost @ 0.15% per annum of LC value, towards issue of LC and operation thereof shall be borne by the contractor and shall be recovered from his bills.</p> <p>(d) The LC shall be opened initially for duration of 180 to 365 days in consultation with contractor. The LC shall be extended time to time as per the progress of the contract, on the</p> <p>e) The LC terms and conditions shall inter-alia indemnify and save harmless the DFCCIL from and against all losses, claims and demands of every nature and description brought or recovered against the DFCCIL by reason of any act or omission of the contractor, his agents or employees, in relation to the Letter of Credit (LC). All sums payable/borne by DFCCIL on this account shall be considered as reasonable compensation and paid by contractor.</p> <p>(f) The LC terms and conditions shall inter-alia provide that DFCCIL will issue a Document of Authorization (format enclosed as Annexure-'B') after passing the bill for completed work, to enable contractor to claim the authorized amount from their bank.</p> <p>(g) The acceptable, agreed upon document for payments to be released under the LC shall be the Document of Authorization.</p> <p>(h) The Document of Authorization shall be issued by DFCCIL Accounts Office against each bill passed by DFCCIL.</p> <p>(i) On issuance of Document of Authorization, a copy of Document of Authorization shall be posted on IREPS for download by the contractor. A digitally signed copy of Document of Authorization shall also be sent by DFCCIL Accounts Office to DFCCIL's bank (Local SBI Branch).</p> <p>(j) The contractor shall take print out of the Document of Authorization available on IREPS and present his claim to his bank (advising Bank) for necessary payments as per LC terms and conditions. The claim shall comprise of copy of Document of Authorization, Bill of Exchange and Bill.</p>

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	<p>(k) The payment against LC shall be subject to verification from DFCCIL's Bank (Local SBI Branch).</p> <p>(l) The contractor's bank (advising bank) shall submit the documents to the DFCCIL's Bank (Local SBI Branch).</p> <p>(m) The DFCCIL's bank (issuing bank) shall, after verifying the claim so received with reference to the digitally signed Document of Authorization received from DFCCIL Accounts Office, release the payment to contractor's bank (advising bank) for crediting the same to contractor's account.</p> <p>(n) Any number of bills can be dealt within one LC, provided the sum total of payments to contractor is within the amount for which LC has been opened.</p> <p>(o) The LC shall be closed after the release of final payment including PVC amount, if any to the contractor.</p> <p>(p) The release of performance guarantee or security deposit shall be dealt directly by DFCCIL with the contractor i.e., not through LC.</p> <p>For opening of LC, executive department shall make a request letter to concerned Accounts Department on a format, placed as Annexure-'A'.</p>
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	Annexure-'A'
	<p>(Clause No. 24.2 of General Instructions to Tenderers) Request letter from Executive branch to Accounts Office for opening of LC</p> <p>Office of DFCCIL</p> <p>No..... Dated.....</p> <p>The Dy. CPM/Finance Ajmer</p> <p>Sub:- Opening of LC</p> <p>Ref:-Supply Order / Contract Agreement No.</p> <p style="text-align: center;">****</p> <p>It is requested to open a sight LC against the above referred order/Agreement in favour of</p> <p>The details of beneficiary are as under:</p> <ul style="list-style-type: none"> i) Name of Contractor/Supplier ii) Vendor code iii) Address iv) Tender No. v) Contract Agreement No. vi) Description of Goods/Service vii) Value of Contract viii) Stages of payment xi) Expected payment within 6 months (LC Amount) xii) Beneficiary bank details; <ul style="list-style-type: none"> a. Bank name b. Address c. Account No. d. IFSC Code <p>It is certified that the supplier/contractor has exercised the option of taking payment due against the tender, through LC arrangement in IREPS portal at the time of bidding itself and the option</p>

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	<p>has been flagged in the IREPS. This has the approval of xiii) Validity/period for which LC is to be opened.</p> <p>(Signature) _____ Name..... Designation.....</p> <p>(Official Seal) _____</p>																																		
	<p align="right"><u>Annexure-‘B’</u></p> <p align="center">(Clause No. 24.1.5(f) of General Instructions to Tenderer) LCDA No. (18 DIGIT IPAS GENERATED NO.)</p> <p align="right">Dated: -----</p> <p align="center"><u>DOCUMENT OF AUTHORIZATION</u></p> <p>Reference: (i) Works Contract/ Supply Contract No..... dated..... (ii) Inland Letter of Credit No..... Dated.....</p> <p>This document is issued against contract No..... (FROM IREPS)DATED..... FOR WORK OF</p> <p>(DESCRIPTION OF WORK FROM IREPS)</p> <p>The beneficiary of the aforementioned Letter of Credit M/s..... (NAME AND VENDOR CODE)..... (Vendor Code..... as per IREPS.....) Is entitled to receive payment aggregating INRSSS (FROM ABSTRACT OF BILL PASSED)... Out of total LC amount of INR (FROM MASTER TABLE OF LC OPENED) Against the first/second* commercial Invoice No. (FROM IPAS) Dated..... FROM IPAS..... for INR (FROM IPAS) raised against the above contract from State Bank of India..... (Branch FROM LC MASTER TABLE) On the strength of this Certificate.</p> <p>The details of payment already made to the beneficiary under this Letter of Credit are as follows:</p> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <tr> <th style="width:5%;">S. No.</th> <th style="width:15%;">Invoice No.</th> <th style="width:15%;">Invoice date</th> <th style="width:15%;">Invoice Amount (INR)</th> <th style="width:10%;">LCDA No.</th> <th style="width:10%;">LCDA date</th> <th style="width:10%;">Amount paid (INR)</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td colspan="6">Total Paid</td> <td> </td> </tr> </table>							S. No.	Invoice No.	Invoice date	Invoice Amount (INR)	LCDA No.	LCDA date	Amount paid (INR)															Total Paid						
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Total Paid																																			

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	<p>THIS PAYMENT: sass.....</p> <p>LC balance after this payment:</p> <p style="text-align: center;">(Signature of authorized DFCCIL authority)</p> <p style="text-align: center;">Name Designation Official Seal</p>
26.0	GUIDELINES FOR ELECTRONIC REVERSE AUCTION FOR WORKS,SERVICE CONTRACT
26.1	SERVICE CONTRACTS (For tenders valued more than Rs. 50 Cr. in each case): (Not Applicable in this Tender)
(a)	Selection criteria for tender cases of Works and Services proposed through Reverse Auction (eRA) route:
(b)	Following method of purchase through Reverse Auction shall be adopted for Works and Service tenders valued more than Rs. 50 Cr. in each case.
(c)	The process of procurement through Reverse Auction shall be followed only in case of tenders where there are at least three technically eligible offers.
26.2	Financial Bids in single currency/parameter only shall be allowed.
(a)	Procedure for award of contracts through Reverse Auction
(b)	The procedure discussed herein shall be fully implemented through IREPS. Any reference to Reverse Auction in these instructions shall imply e-RA .
(c)	Conduct and reporting of Reverse Auction shall be as per Annexure-C .
26.2.1	The essential technical and commercial parameters will be specified in a transparent manner in the tender document. No deviation to such essential Technical & Commercial conditions shall be permitted to the tenderer(s) in the electronic bid form.
(a)	Technical Bid and Initial Price Offer :
(b)	In case of Works and Services related tenders, e-RA shall be adopted only for those cases where evaluation is on the basis of single parameter/currency.
(c)	Bidder shall be simultaneously required to electronically submit a Technical & Commercial Bid and Initial Price Offer. The offers found eligible for award of contract/meeting eligibility criteria shall be categorized as Qualified for Award of Contract for the purpose of e-RA.
(d)	Offers not complying with essential technical & commercial requirements of the tender shall be declared as Ineligible for award of contract.
26.2.2	Initial Price Offer of only those bidders categorized as Qualified for Award of contract shall be opened and tabulated by system separately.
(a)	Financial Bid Financial Bid shall comprise of Final Price Offer obtained through Reverse Auction. Following conditions and procedure shall be followed in selection of bidders for conduct of Reverse Auction:
(b)	Selection of vendors for Reverse Auction for award of Contract in Works and Services tenders :

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Number of tenderers Qualified for Award Of contract/ Bulk order	Number of tenderers to be selected for Reverse Auction.	Remarks
< 3	NIL*	The bids disallowed from participating in the Reverse Auction shall be the highest bidder(s) in the tabulation of Initial Price Offer. In case the highest bidders quote the same rate, the Initial Price Offer received last, as per time log of IREPS, shall be removed first, on the principle of last in first out, by IREPS system itself.
3 to 6	3	
More than 6	50% of Vendors Qualified for Bulk Order/ award of contract (rounded off to next higher integer).	
<p>Note:- (i)* If the number of tenderers qualified for Award of Contract is less than 3 RA shall not be done and tender may be decided on the basis of Initial Price Offer(s).</p> <p>(ii) Make in India criteria: All bidders eligible for benefits under Public Procurement (Preference to Make in India) Order – 2017, found Qualified for Award of Contract and are within the specified range of price preference of lowest Initial Price Bid shall be permitted to participate in the Reverse Auction, irrespective of their inter-se ranking on the basis of Initial Price Bid. Such bidders shall be over and above the number of vendors selected for Reverse Auction, as per Para 24.2.2(a) above. During Reverse Auction process, bidders shall not be allowed to bid a rate higher than the lowest Initial Price Offer.</p>		
<div>Annexure C</div> <p><u>Procedure for Conduct and Reporting of R.A.</u></p> <ol style="list-style-type: none">The tendering authority shall solicit bids through an invitation to the electronic Reverse Auction to be published or communicated in accordance with the provisions similar to e-procurement.Depending upon the nature of item/work/service and complexity of the case on hand, following shall be indicated in the tender for e-RA itself.<ol style="list-style-type: none">Initial e-RA period: This shall be the initial time interval for e-RA, e-RA Shall be open for this duration.Auto extension period: In case any offer is received in the time period equal to auto extension period before close of initial e-RA period, the e-RA shall be extended for time equal to auto extension period from the time of last bid. There shall be no upper limit on number of auto extensions. When no offer is received in the last auto extension period, e-RA shall close.Minimum decrement in percentage of value of the last successful bid.Date and time for start of e-RA shall be communicated to qualified tenderers by the convener after evaluation of the Technical Bids.After submission of Initial Price Bid, tenderers will not be allowed to revise the taxes and other levies.During auction period, identities of the participating tenderers will be kept hidden.Minimum admissible bid value will be last bid value minus minimum decrement as specified by the tendering authority before starting of reverse auction. Starting point for reverse auction shall be the lowest initial Price Bid of the Tenderer eligible for award of contract.After close of the RA, tabulation of last (minimum) bids received from all the tenderers will be generated and made visible to Railways and participating tenderers.Railway users can also view the bidding history in chronological order.Bidders not be allowed to withdraw their last offer.L-1 will be defined as the lowest bid obtained after the closure of R.A. session for Goods Works and Services tenders. <p>(Authority : No. 2017/Trans/01/Policy/Pt-S Dated 28.03.2018)</p>		

SPECIAL CONDITIONS OF CONTRACT (GENERAL)

PART-IV
SPECIAL CONDITIONS OF CONTRACT (GENERAL)

1.0	These special conditions and the work schedule shall govern the works to be executed under this contract in addition to and/or in part supersession of the General Conditions of Contract-2022 and Standard Specifications as laid down in Indian Railways Unified Standard Specifications (Works and Material) -2010 / 2020 as amended/ updated by correction Slips on or before the opening of tender.
2.0	<p>Order of Precedence of Documents: In a tender/contract, in case of any difference, contradiction, discrepancy, with regard to Conditions of tender/contract, Specifications, Drawings, Bill of quantities etc., forming part of the tender/contract, the following shall be the order of precedence:</p> <ul style="list-style-type: none"> i. Letter of Award ii. Schedule of Items, Rates & Quantities iii. Special Conditions of Contract iv. Technical Specifications as given in tender documents v. Drawings vi. Indian Railways Standard General Conditions of Contract vii. Standard Specifications as laid down in Indian Railways Unified Standard Specifications (Works and Material) -2010 / 2020 as amended/ updated by correction Slips on or before the opening of tender viii. IR Specifications/Guidelines ix. Relevant B.I.S. Codes
3.0	Any special condition stated by the tenderer(s) in the covering letter submitted along with the tender shall be deemed as part of contract to such extent only as have explicitly been accepted by the DFCCIL.
4.0	<u>USE OF DFCCIL LAND</u>
4.1	Use of DFCCIL land required by the contractor(s) for constructing temporary offices, quarters, hutments etc. for the staff and for storing materials etc. would be permitted to him/them free of charge by DFCCIL, if available. The location of these offices, hutments, stores etc., will be subject to the approval of the engineer or his authorized representative. The land will be restored to DFCCIL by the contractor(s) in the same condition as when taken over or in vacant condition as desired by the engineer, after completion of the work or at any earlier day, as specified by the Engineer. The failure to do so will make the contractor(s) liable to pay the cost incurred by the DFCCIL for getting possession of land.
4.2	The tenderer(s) shall also acquaint himself /themselves with the availability of land, working space for his/their works etc. The DFCCIL will not acquire any land for the purpose of movement of vehicles of the Contractor/s for executing the work by the contractor/s.
5.0	<p><u>USE OF PRIVATE LAND</u></p> <p>The Contractor will have to make his/their own arrangements for use of private land, outside DFCCIL limits for due fulfillment of contract or for borrow pits, approaches, etc., directly with the land owners or local authority and to pay such rents if any as are payable as may be mutually agreed upon between them.</p>

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6.	<p><u>FIGURES, DIMENSIONS ETC.</u></p> <p>Figures, dimensions and drawings shall supersede measurements by scale and drawing to larger scale shall take precedence over those to a smaller scale. Special dimensions or directions in the specification shall supersede all else.</p>
7.	<p><u>PLEA OF CUSTOM</u></p> <p>The plea of custom prevailing will not on any account be permitted as excuse for an infringement of any of the conditions of the contract or specifications</p>
8.0 8.1	<p><u>SEIGNIORAGE CHARGES</u></p> <p>The contractor/s shall comply with all the instructions issued by the Chief Inspector of Mines in respect to the safety of the workmen and the working of quarries and maintain register in which shall be recorded, such information/s for supply annually to Chief Inspector of Mines of the Government of India, as required by him. Final payment will be released after producing the no dues certificate from Mining department or any other concerned office of the area. The contractor/s are required to produce necessary documentary proof regarding payment of royalty to Mining Department of the stone ballast supplied, as and when demanded by the DFCCIL administration. Final Bill shall be released only after production of "No Dues" certificate from the Mines Department, by the contractor.</p>
8.2	<p>The rates quoted by the tenderer shall be inclusive of seigniorage charges on all items of work to be executed under the contract, applicable as on the last date of submission of tender.</p>
9.0	<p><u>TAXES</u> -The accepted rates should be deemed to include all taxes direct or indirect Including Income Tax leviable under Central/State or Local Bodies Act or Rules, Octroies, Tolls, Royalties, Seignorages, Cess and similar imposts that may be prevailing from time to time in respect of land, structures and all materials supplied in the Performance of this Contract.</p>
10.0	<p>The Building and Other Construction workers (Regulation of Employment and conditions of service) Act, 1996 and the Building and Other Construction Workers Welfare Cess Act, 1996: The tenderers for carrying out any construction work must get themselves Registered with the Registering Officer under section 7 of the "Building and other construction workers act, 1996" and rules made there to by the concerned state Govt. and submit certificate of Registration issued from the Registering Officer of the concerned State Govt. (Labour Department). The Cess shall be deducted from contractor's Bills as per provision of Act.</p>
11.0	<p><u>DEDUCTION OF INCOME TAX AT SOURCE</u></p> <p>In terms of new section 194 inserted by the Finance Act 1972 in the Income Tax Act 1961, the DFCCIL shall at all the time arranging payment to the contractor sub-contractor (in case of sub-contractor only when the DFCCIL responsible for payment of the consideration to him under the contract) for carryout any work (including supply of labour for carryout the work under the contract) be entitled to deduct income tax at source or income comprised in the sum of such payments. The deduction towards income tax to be made at source from the payments due to non-residents shall continue to be governed by section 195 of the Income Tax Act, 1961.</p>

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12.0	<p><u>ROYALTIES AND PATENT RIGHTS</u></p> <p>The contractor shall defray the cost of all royalties, fees and payment in respect of patents, patent rights and licenses which may be payable to patentee, license or other person or corporation and shall obtain all necessary licenses. In case of any breach (whether willfully or inadvertently) by the contractor of this provision, the contractor shall indemnify the DFCCIL and its officers, servants, representatives against all claims, proceedings, damages, cost, charges, acceptance, loss and liability which they or any of them, may sustain, incur or be put to by reason or inconsequence of directly or indirectly or any such breach and against payment of any royalties, damages or other monies which the DFCCIL may have to make to any person or paid in total to patent rights in respect of the users of any machine, instrument, process, articles, matters of thing constructed, manufactured, supplied or delivered by the contractors to his order under this contract.</p>
13.0	<p><u>NOTICE TO PUBLIC BODIES</u></p> <p>The Contractor(s) shall give to the municipality, police and other authorities all notices that may be required by law and obtain all requisite licenses for temporary obstructions, enclosures and pay all fees, taxes and charges, which may be leviable on account of his operations in executing the contract. He should make good any damage to adjoining premises whether public or private and supply and maintain any lights, etc., required at night.</p>
14.0	<p><u>DAMAGE BY ACCIDENTS, FLOODS OR TIDES</u></p> <p>The contractor shall take all precautions against damage from accident, floods or tides. No compensation shall be paid to the contractor for his plant or material lost or damaged by any cause whatsoever. The contractor shall make good the damages at his cost to any structure or part thereof by any cause during the course of the work.</p>
15.0	<p><u>SERVICE ROADS</u></p> <p>The Contractor/s will be permitted to make use of existing service roads, or service roads constructed by the DFCCIL for its use free of cost. New service roads required by the contractor/s either near the work site or elsewhere within or outside DFCCIL limits for carriage of materials or for any other purpose whatsoever, will have to be constructed and maintained by the contractor/s at his/their own cost. For the purpose of construction of service roads on DFCCIL land, permission will be given free of charge. If any land other than DFCCIL land is necessary to be acquired or to be entered upon, permission to enter in the land will have to be arranged by the contractor/s at his/ their cost. The contractor/s will not prefer any claim, whatsoever on this account. The DFCCIL, however, reserves the right to make use of such service roads as may be constructed by the contractor/s without payment of any charges.</p>
16.0	<p><u>EMERGENCY WORKS</u></p> <p>In the event of any accident or failure occurring in, on or about the work or arising out of or in connection with the construction, completion or maintenance of the works, which in the opinion of the Engineer requires immediate attention, the DFCCIL may bring its own workmen or other agency to execute or partly execute the necessary work or carry out repairs if the Engineer considers that the contractor/s is/are not in a position to do so in time and charge the cost thereof, which will be determined by the CGM, DFCCIL, to the contractor.</p>
17.0	<p><u>MAINTENANCE PERIOD/DEFECT LIABILITY PERIOD:-</u></p> <p>(a) The Contractor shall guarantee that all the works executed under this contract shall be free from all defects and faults in material, workmanship and manufacture and shall be of acceptable standards for the contracted work and in full conformity with the technical</p>

	<p>specifications, drawings and other contract stipulations, for a period of 12 months from the date of taking over by the Employer</p> <p>(b) During the period of guarantee the Contractor shall keep available an experienced engineer / man power to attend to any defective works / installations resulting from defective erection and/or defect in the installation supplied by the Contractor. This engineer shall not attend to rectification of defects which arise out of normal wear and tear and come within the purview of routine maintenance work. The contractor shall bear the cost of modifications, additions or substitutions that may be considered necessary due to faulty materials or workmanship for the satisfactory working of the equipment. The final decision shall rest with the Engineer his successor(s)/Nominee.</p> <p>(c) During the period of Guarantee the Contractor shall be liable for the replacement at site of any parts which may be found defective in the executed work whether such parts / structural elements of his own manufacture or those of his sub-contractor / supplier whether arising from faulty materials, workmanship or negligence in any manner on the part of the Contractor provided always that such defective parts as are not repairable at site are promptly returned to the Contractor if so required by him at his (Contractor's) own expenses. In case of parts of executed work detected during guarantee period, contractor should replace all such items irrespective of the fact whether all such items have failed or not. The Contractor shall bear the cost of repairs carried out on his behalf by the Employer at site. In such a case, the contractor shall be informed in advance of the works proposed to be carried out by the Employer.</p> <p>(d) If it becomes necessary for the Contractor to replace or renew any defective portion of the structural elements until the expiration of six month from the date of such replacement or renewal or until the end of the above mentioned period whichever is later. Such extension shall not apply in case of defects of a minor nature, the decision of the Chief General Manager or his successor/nominee being final in the matter. If any defect be not remedied within a reasonable time during the aforesaid period the Employer may proceed to do work at the Contractor's risk and expense, but without prejudice to any other rights and remedies which the Employer may have against the Contractor in respect of such defects or faults.</p> <p>(e) The repaired or renewal parts structure shall be delivered / supplied and erected / executed on site free of charge to the Employer.</p> <p>(f) Any materials, fittings, components or equipment / structure supplied under items for supplying / providing and fixing in schedule shall also be covered by the provisions of this paragraph. The liability of the Contractor under the guarantee will be limited to re-supply of components / structure installation and fittings.</p>
18.0	INSTRUCTIONS/DIRECTIVES OF THE ENGINEER'S REPRESENTATIVE
18.1	<p>The contractor shall at all times, execute the contract work only in the presence and under the supervision of the Engineer's Representative or a DFCCIL employee specifically appointed on his behalf. No work under the contract shall, therefore, be commenced by the contractor without the express permission of the Engineer's representative.</p>

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18.2	The contractor shall always execute the work under this contract in strict compliance with the instructions/directives by the Engineer's representative. Any act of non-compliance with the instruction/directives issued by the Engineer's representative shall be considered as a default of the contractor where after the DFCCIL shall be free to take further appropriate action as provided in the contract for dealing with such defaults of the contractors. The decision of the Engineer-in-charge whether there has been an act of noncompliance with the instruction/directives of the Engineer's representative for the purpose of this clause shall be final and conclusive.
18.3	The instructions/directives by the Engineer's representative shall not, however, absolve the contractor of his responsibility or reduce his responsibility in any manner whatsoever in regards to maintaining at all times the safe working conditions at the work site.
18.4	Any instructions or approval given by the Engineer's representative to Contractor in connection with the works shall bind the Contractor as though it had been given by the Engineer provided always as follows: (a) Failure of the Engineer's representative to disapprove any work or materials shall not prejudice the power of the Engineer thereafter to disapprove such work or material and to order the removal or breaking up thereof. (b) If the Contractor shall be dissatisfied by reason of any decision of the Engineer's representative, he shall be entitled to refer the matter to the Engineer who shall there upon confirm or vary such decision.
19.0	NON-COMPLIANCE WITH THE INSTRUCTIONS/DIRECTIVES OF THE ENGINEER'S REPRESENTATIVE
19.1	The contractor shall always comply with the instructions/directives issued by the Engineer's representative from the time to time. In the event of any non-compliance with such instructions/directives, apart from and in addition to other remedies available to the DFCCIL as specified herein above the Engineer's representative may employ at the works DFCCIL's workmen with necessary equipment as considered appropriate and adequate by him to provide the requisite conditions for the safe and unhampered movement of DFCCIL traffic. The decision of the Engineer's representatives in regard to the need of appropriateness and adequacy of the deployment of the DFCCIL Workmen with necessary equipment shall be final and conclusive.
19.2	When the DFCCIL workmen with necessary equipment are deployed in the above manner, recovery at the following rate shall be made from the contractor's dues under this contract or any other money of the contractor available with the DFCCIL under this contract. The recovery for the total DFCCIL Workmen Hours employed at the rate of Rs. 100/- (Rupees Hundred only) per Workmen-Hour irrespective of the type and grade of the DFCCIL Employee actually employed. The aggregate period of the Workman-Hours for the above recoveries shall be reckoned from the time the DFCCIL Workmen are actually deployed at the work site till the work is completed to the satisfaction of the Engineer's Representative whose decision in this regard shall be final and conclusive.
19.3	During the above-mentioned period of suspension of work, the contractor shall not in any manner attempt to carry out any work at the work site. Any such attempt of the contractor shall be deemed to be an unauthorized work on the work site. For such acts, the contractor shall then be liable for further appropriate action under the relevant provisions of the Indian Railway Act.

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20.0	<p><u>WARRANTY</u></p> <p>The Contractor(s) shall warrant the materials supplied under this contract to be free of any defects in material and workmanship under ordinary use and service.</p>
21.0	<p><u>SHIFTING OF ELECTRICAL/TELEGRAPH WIRES</u></p> <p>In some stretches, high-tension grid towers /electric telegraph/telephones wires or posts etc. are to be shifted. It is expected that the electric lines/towers will be shifted in good time but in case, there is any delay on this account suitable extension in date of completion will be considered and given to the contractor for only the effected portion and no compensation whatsoever in this respect or due to the delay thus caused will be payable and contractor has to adopt such methods of execution of earthwork so as not to cause any damage to existing structure lines etc.</p>
22.0	<p><u>HANDING OVER OF SITE FOR WORK</u></p> <p>The entire land required for this work is available. However, DFCCIL may not hand over the entire land required for completion of this work for making bank/cutting or excavation to the contractor(s) due to any unavoidable reasons. Land may be handed over in different stretches, which may not be continuous. Contractor(s) will be required to carry out the work in available stretches. If some stretch of land cannot be handed over to the contractor for borrowing earth or making bank/cutting within the contract period then suitable extension will be granted only for the affected portion without any payment of extra claim to the contractor.</p>
23.0	<p><u>Working during Night:</u> The Contractor shall have to carry out dewatering round the clock if required. But will not carry out any other work between sun-set and sun-rise without the previous permission of the Engineer. However, if the Engineer is satisfied that the work is not likely to be completed in time except by resorting to night work, he may order the same without confirming any right on the Contractor for claiming any extra payment for the same. (Authority Clause No. 23 Part-II of GCC APRIL-2022, with up to date correction slip)</p>
24.0	<p><u>MODE AND TERMS OF PAYMENT</u></p>
24.1	<p>All payments will normally be made only for finished works on the basis of mode and terms of payments agreed upon and provided in the contract.</p>
24.2	<p><u>MANNER OF PAYMENT</u></p> <p>Payment to the contractor will be made through Electronic Fund Transfer (EFT) for payment of running and final bills. The tenderer (s) will also fill the Annexure-I indicating the bank account number, name of bank and bank specific code number (MICR/IFSC) as enclosed. The conditions and Annexure-I will be part of the tender document.</p>
25.	<p><u>ACCIDENT/NATURAL CALAMITIES</u></p>
25.1	<p>Vehicle and equipment of the contractor can be drafted by DFCCIL Administration in case of accidents/natural calamities involving human lives.</p>
25.2	<p>For payment purpose, the item may be operated as New Non-Schedule (NS Item) as per existing norms and powers delegated.</p>
25.3	<p>Contractor may submit list of vehicles and equipment available with him.</p>
26.0	<p><u>MOBILIZATION ADVANCE</u> (For Contract Value Rs. 25 Crores and Above)</p>
26.1	<p>Stage-I: -5% of Contract Value on signing of the contract agreement.</p> <p>Stage-II: - 5% on mobilization of site-establishment, setting up offices, bringing in equipment and actual commencement of work.</p>

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	<p>The 1st stage of advance shall be payable immediately after signing of contract documents. The 2nd stage of advance shall be payable at the time of mobilization, after submission of a utilization certificate by the contractor that the Stage 1 advance has been properly utilized in the contract.</p>
26.2	<p>The advance shall carry an interest at the rate to be decided by Railway Board and communicated at the beginning of every financial year, to be applicable for the tenders to be opened in that financial year.</p>
26.3	<p>The Mobilization Advance Clause shall be restricted only for high value tenders of Rs. 25 crore and above.</p>
26.4	<p>The Mobilization Advance except, those against machineries and equipment's shall be payable against an irrevocable Bank Guarantee (Bank Guarantee, FDRs, KVPs, NSCs) of at least 110% of the value of sanctioned advance amount (covering principal plus interest). The bank guarantee shall be from a Nationalized Bank in India or State Bank of India in a form acceptable to the DFCCIL.</p> <p>(a) <u>For works costing less than Rs. 50.00 Crore</u></p> <p>The mobilization shall be granted against irrevocable bank guarantee Which will be released only after full Mobilization advance with interest will be recovered.</p> <p>(b) <u>For works costing Rs. 50.00 Crore & above.</u></p> <p>Mobilization advance can be granted against several bank guarantees. Individual Bank Guarantee can be refunded after the amount mentioned in the part B.G. has been recovered along with interest. BG will not be accepted in more than 5 parts. However, amount of each BG shall not be less than Rs. 1Cr.</p>
26.5	<p><u>Method of Recovery of Interest</u></p> <p>Interest shall be recovered on the advance outstanding for the period commencing from the date of payment of advance till date of particular on-account bill (through which recovery of principal is effected) and adjusted fully against on-account bill along with pro-rata principal recovery. In the event of any short-fall, the same shall be carried forward to the next on account bill and shall attract interest.</p> <p>The recovery shall commence when the value of contract executed reaches 15% of original contract value and shall be completed when the value of work executed reaches 85% of the original contract value. The installments on each "on account bill" will be on pro-rata basis;</p> <p>The Rate of Interest Shall be RBI Bank Rate+5%(Five %) simple interest for the tenders to be opened in the financial Year 2022-23 onwards.(As per Railway board's letter No 2018/CE-I/CT/1 dated 10.03.2022)</p>
26.6	<p><u>Advances for accelerating progress of the work during course of execution of Contract-</u></p> <p>This advance is to be decided on the merits of each case and shall be restricted to a maximum of 5% of contract value. This is to be granted by the General Manager for contracts where the progress of the contract work has been as per milestones/targets laid down and no extension to date of completion of the contract has been given on contractor's account.</p>
26.7	<p><u>Advances in Exceptional Cases –</u></p> <p>The power to grant advances in exceptional cases upto a maximum of Rs. 20 lacs in respect of even contracts of value less than Rs. 25 crore, considered absolutely essential, depending</p>

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	on the merits of each case and circumstances in each situation, lies with Chief General manager/General Manager-Co. Advance Correction slip no 56 for Indian railway Code for Engineering Department dated 05.03.2019.
27.0	<u>STAGE PAYMENT ON SUPPLY OF STEEL IN WORKS CONTRACT</u> (For contract value Rs. 15.00 crores & above): (Not Applicable in this Tender)
27.1	<p>Stage payment for steel physically brought by the contractor to the site (even before its actual use in work) can be made subjected to following conditions:-</p> <ul style="list-style-type: none"> (a) The material shall be strictly in accordance with the contract specifications. (b) The material shall be delivered a site and properly stored under covered sheds in measurable stacks. (c) The quantities of materials shall be brought to the site only in such installments that would facilitate smooth progress of work and consumed in reasonable time. (d) Proper accountal in the material register to be maintained in the prescribed format at the site for the receipt and use of the material. (e) Ownership of such material shall be deemed to rest with the DFCCIL for which the contractor should submit an indemnity bond in prescribed format. (f) Before releasing the stage payment, the contractor shall insure the material at his own cost in favour of DFCCIL against theft, damages, fire etc. (g) Stage payment in all such cases shall not be more than 75% of the rate of steel awarded in the contract. The balance payment shall be released only after the material is actually consumed in the work. (h) The price variation claim for steel would continue to be governed as per extant PV clause and with reference to delivery at site.
28.0	<p><u>BONUS FOR EARLY COMPLETION OF WORK:</u> In case of open tenders having value more than Rs. 20 crore and original period of completion 12 months or more, when there is no reduction in original scope of work by more than 10%, and no extension granted on either DFCCIL or Contractor's account, Contractor shall be entitled for a bonus of 1% for each 30 days early completion of work. The period of less than 30 days shall be ignored while working out bonus. The maximum bonus shall be limited to 5% of original contract value. The completion date shall be reckoned as the date of issuance of completion certificate by Engineer.</p> <p>As per Clause No. 17(c) Part-II of GCC APRIL-2022, with up to date correction slip</p>
29.0	Contractor shall provide suitable manpower to Engineer in Charge or his representative at all times during currency of the contract for assisting him in giving layout of work, carrying out quality checks, taking measurements and other associated activities for effective supervision of work.
30.0	<p><u>DEPLOYMENT OF QUALIFIED ENGINEERS AT WORK SITES BY THE CONTRACTOR</u></p> <p>(As per Clause No.26-A of G.C.C. April-2022 Part-II with up to date correction slip)</p>
30.1	The contractor shall also employ Qualified Graduate Engineer or Qualified Diploma Holder Engineer, based on value of contract, as may be prescribed by the DFCCIL through separate instructions from time to time.

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30.2	In case the contractor fails to employ the Engineer, as aforesaid in Para 30.1, he shall be liable to pay liquidated damages at the rates, as prescribed in the tender document penalty at the rates, as may be prescribed by the DFCCIL (Para 30.4) through separate instructions from time to time for the default period for the provisions, as contained in Para 30.1.
30.3	<p>No. of qualified Engineers required to be deployed by the Contractor for various activities contained in this works contract shall be as under:-</p> <p>(i) For tenders costing below Rs.50.00 Cr.</p> <ol style="list-style-type: none"> 1) Graduate Engineer – Minimum 1 Nos. 2) Diploma Engineer – Minimum 1 Nos. <p>(ii) For tenders costing Rs.50.00 Cr. and above.</p> <ol style="list-style-type: none"> 1) Graduate Engineer – Minimum 2 Nos. 2) Diploma Engineer – Minimum 2 Nos.
30.4	In case the contractor fails to employ the Qualified Engineer, as aforesaid in Para 30.1 above, he, in terms of provisions of Clause 30.2 to the Conditions of Contract, shall be liable to pay an amount of Rs. 40,000/- and Rs. 25,000/- for each month or part thereof for the default period for the provisions, as contained in Para 30.3 above respectively.
31.0	PRICE VARIATION CLAUSE (As per Clause No. 46 A of GCC APRIL-2022 with up-to-date correction slip (Not Applicable))
31.1	<p>Applicability:</p> <p>Price Variation Clause shall be applicable only for works contracts having advertised value above Rs. 2 Crore. Materials supplied free of cost by Railway to the contractors and any extra NS items included in subsequent variations falling outside the purview of the Schedule of Items of tender shall fall outside the purview of PVC. If, in any case, accepted offer includes some specific payment to be made to consultant or some materials supplied by Railway free or at fixed rate, such payments shall be excluded from the gross value of work for the purpose of payments/ recovery of Price variation.</p> <p>For calculation of price variation, cut-off date quarter for running bills/final bills will be as under:</p> <ol style="list-style-type: none"> (a) In case of running bill, the date of measurement recorded in MB, shall be considered. If measurement date is more than one, then 1st date of measurement recorded in MB will be considered. (b) In case of final bill, the date of completion or 1st date of measurement recorded in MB, whichever is earlier, will be considered.
32.A	<p>Communications to be in Writing:</p> <p>All notices, communications, reference and complaints made by the DFCCIL or the Engineer or the Engineer's Representative or the Contractor inter-se concerning the works shall be in writing or e-mail on registered e-mail IDs i.e. the e mail id provided for correspondence in the contract agreement, otherwise email id registered with IREPS and no notice, communication, reference or complaint not in writing or through e-mail, shall be recognized.</p> <p>(As per Clause No. 4 Part-II of GCC APRIL-2022, with up to date correction slip)</p>
32.B	<p>Assignment or subletting of the contract:</p> <p>(a) In case contractor intends to subcontract part of work, he shall submit a proposal in writing seeking permission of CGM for the same. While submitting the proposal to DFCCIL, contractor shall ensure the following : (As per Clause No. 7 Part-II of GCC APRIL-2022, with up to date correction slip)</p>

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	<p>(i) Total value of work to be assigned to sub-contractor(s) shall not be more than 50% of total contract value.</p> <p>(ii) The subcontractor shall have successfully completed at least one work similar to work proposed for subcontract, costing not less than 35% value of work to be sub-letted, in last 5 years through a works contract directly given to him by a Govt. Department; or by a Public listed company having average annual turnover of Rs. 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, registered at least 5 years back from the date of submission of proposal by contractor to DFCCIL and work experience certificate issued by a person authorized by the Public Listed Company to issue such certificates.</p> <p><i>Note: For subletting of work costing up to Rs 50 lakh no previous work experience shall be asked for by the DFCCIL.</i></p> <p>In case contractor submits subcontractor's work experience certificate issued by public listed company, the contractor shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate. The details shall be furnished as per the annexure IV A, IV-B, IV-C as applicable to the Engineer in charge.</p> <p>(iii) There is no banning of business with the sub-contractor in force over IR/DFCCIL.</p> <p>(b) The Contractor shall provide to the Engineer a copy of the agreement to be entered into by Contractor with subcontractor. No subcontractor shall be permitted without a formal agreement between Contractor and subcontractor. This agreement shall clearly define the scope of work to be carried out by subcontractor and the terms of payment in clear & unambiguous manner.</p> <p>(c) On receipt of approval from CGM, Contractor shall enter into a formal agreement legally enforceable in Court of Law with subcontractor and submit a copy of the same to the Engineer.</p> <p>(d) The Contractor shall intimate to the Engineer not less than 7 days in advance, the intended date of commencement of subcontractor's work.</p> <p>(e) Once having entered into above arrangement, Contractor shall discontinue such arrangement, if he intends to do so at his own or on the instructions of DFCCIL, with prior intimation to CGM.</p> <p>(f) The Contractor shall indemnify DFCCIL against any claim of subcontractor.</p> <p>(g) The Contractor shall endeavor to resolve all matters and payments amicably and speedily with the subcontractor.</p> <p>(h) In addition to issuance of work experience certificate to Contractor, the Engineer, when, based on documents, is satisfied that subcontracted work has been carried out by subcontractor, shall issue work experience certificate to the subcontractor also for the portion of work subcontracted and successfully completed by the sub-contractor.</p> <p><i>Note: Work Experience Certificate to the subcontractor shall be issued only when the contractor's work is complete and contractor is entitled for the issuance of Work Experience Certificate. However, in the same contract, when the Chief Engineer, based on documents, is satisfied that the subcontractor has successfully carried out subletted work, without issuance of work experience certificate to subcontractor at this stage, the Chief Engineer can, only once, consider the successfully completed subletted work for the fulfilment of eligibility for further subletting of work to the subcontractor in the same contract. When the contractor's work is</i></p>
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	<p>complete and contractor is entitled for the issuance of work experience certificate, the subcontractor shall be issued one Work Experience Certificate for the total scope of work executed by the subcontractor in the contract.</p> <p>(i) The responsibility of successful completion of work by subcontractor shall lie with Contractor. Subcontracting will in no way relieve the Contractor to execute the work as per terms of the Contract.</p> <p>(j) Further, in case Engineer is of the view that subcontractor's performance is not satisfactory, he may instruct the Contractor to remove the subcontractor from the work and Contractor has to comply with the above instructions with due promptness. Contractor shall intimate the actual date of discontinuation of subcontract to Engineer. No claim of Contractor whatsoever on this account shall be entertained by the DFCCIL and this shall be deemed as 'excepted matter' (matter not arbitrable).</p> <p>(k) The permitted subcontracting of work by the Contractor shall not establish any contractual relationship between the sub-contractor and the DFCCIL and shall not relieve the Contractor of any responsibility under the Contract.</p>
33	<p>Display Board: The Contractor shall be responsible for displaying the details of works i.e. name of work, approximate cost, expected date of completion, name and address of the Contractor and address of Engineer on a proper steel Board of size not less than 1m x 1m. As per Clause No. 34.(5) Part-II of GGC-2022 with up to date correction slip</p>
34.0	<p>VARIATIONS & MODIFICATION IN EXTENT OF CONTRACT</p>
34.1	<p>Modification to Contract to be in Writing: In the event of any of the provisions of the contract required to be modified after the contract documents have been signed, the modifications shall be made in writing and signed by the Railway and the Contractor and no work shall proceed under such modifications until this has been done. Any verbal or written arrangement abandoning, modifying, extending, reducing or supplementing the contract or any of the terms thereof shall be deemed conditional and shall not be binding on the Railway unless and until the same is incorporated in a formal instrument and signed by the Railway and the Contractor, and till then the Railway shall have the right to repudiate such arrangements. As per Clause No. 41 Part-II of GGC-2022 with up to date correction slip</p>
34.2.1	<p>Powers of Modification to Contract: The Engineer on behalf of the Railway shall be entitled by order in writing to enlarge or extend, diminish or reduce the works or make any alterations in their design, character position, site, quantities, dimensions or in the method of their execution or in the combination and use of materials for the execution thereof or to order any additional work to be done or any works not to be done and the Contractor will not be entitled, to any compensation for any increase/reduction in the quantities of work but will be paid only for the actual amount of work done and for approved materials supplied against a specific order. As per Clause No. 42(1) Part-II of GGC-2022 with up to date correction slip</p>
34.2.2	<p>(i) Unless otherwise specified in the special conditions of the contract, the accepted variation in quantity of each individual item of the contract would be upto 25% of the quantity originally contracted, except in case of foundation work.</p> <p>(ii) The Contractor shall be bound to carry out the work at the agreed rates and shall not be entitled to any claim or any compensation whatsoever upto the limit of 25% variation in quantity of individual item of works.</p> <p>(iii) In case an increase in quantity of an individual item by more than 25% of the agreement quantity is considered unavoidable, then same shall be executed at following rates</p>

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	<p>(a) Quantities operated in excess of 125% but upto 140% of the agreement quantity of the concerned item, shall be paid at 98% of the rate awarded for that item in that particular tender;</p> <p>(b) Quantities operated in excess of 140% but upto 150% of the agreement quantity of the concerned item shall be paid at 96% of the rate awarded for that item in that particular tender;</p> <p>(c) Variation in quantities of individual items beyond 150% will be avoided and would be permitted only in exceptional unavoidable circumstances and shall be paid at 96% of the rate awarded for that item in that particular tender.</p> <p>(d) Variation to quantities of Minor Value Item: The limit for varying quantities for minor value items shall be 100% (as against 25% prescribed for other items). A minor value item for this purpose is defined as an item whose original agreement value is less than 1 % of the total original agreement value.</p> <p>d.(i) Quantities operated upto and including 100% of the agreement quantity of the concerned minor value item, shall be paid at the rate awarded for that item in that particular tender;</p> <p>d.(ii) Quantities operated in excess of 100% but upto 200% of the agreement quantity of the concerned minor value item, shall be paid at 98% of the rate awarded for that item in that particular tender;</p> <p>d.(iii) Variation in quantities of individual minor value item beyond 200% will be avoided and would be permitted only in exceptional unavoidable circumstances and shall be paid at 96% of the rate awarded for that item in that particular tender.</p> <p>(iv) In case of earthwork, the variation limit of 25% shall apply to the gross quantity of earthwork and variation in the quantities of individual classifications of soil shall not be subject to this limit. As far as Standard Schedule of Rates (SSOR) items are concerned, the variation limit of 25% would apply to the value of SSOR schedule(s) as a whole and not on individual SSOR items. However, in case of Non Standard Schedule of Rates (SSOR) items, the limit of 25% would apply on the individual items irrespective of the manner of quoting the rate (single percentage rate or individual item rate).</p> <p>As per Clause No. 42(2) Part-II of GGC-2022 with up to date correction slip</p>
34.3	<p>Valuation of Variations: The enlargements, extensions, diminution, reduction, alterations or additions referred to in Sub-Clause (2) of this Clause shall in no degree affect the validity of the contract; but shall be performed by the Contractor as provided therein and be subject to the same conditions, stipulations and obligations as if they had been originally and expressively included and provided for in the Specifications and Drawings and the amounts to be paid therefor shall be calculated in accordance with the accepted Schedule of Rates. Any extra items/quantities of work falling outside the purview of the provisions of Sub-Clause (2) above shall be paid for at the rates determined under Clause-39 of these Conditions.</p>
34.4	<p>Rates for Extra Items of Works: Any item of work carried out by the Contractor on the instructions of the Engineer which is not included in the accepted Schedules of Rates shall be executed at the rates set forth in the "IR USSOR-2010" modified by the tender percentage, and for such items not contained in the latter, at the rate agreed upon between the Engineer and the Contractor before the execution of such items of work and the Contractors shall be bound to notify the Engineer at least seven days before the necessity arises for the execution of such items of works that the accepted Schedule of Rates does not include rate or rates for the extra work involved. The rates payable for such items shall be decided at the meeting to be held between the Engineer and Contractor, in as short a period as possible after the need for the</p>

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	<p>special item has come to the notice. In case the Contractor fails to attend the meeting after being notified to do so or in the event of no settlement being arrived at, the DFCCIL shall be entitled to execute the extra works by other means and the Contractor shall have no claim for loss or damage that may result from such procedure. The assessment of rates for extra items shall be arrived at based on the prevailing rates and by taking guidance from the following documents in order of priority:</p> <p>(i) Analysis of Unified Schedule of Rates of Indian Railways.</p> <p>(ii) Market Analysis</p>										
35.0	<p>HANDLING VITIATION DURING VARIATION IN CONTRACT QUANTITIES</p> <p>In partial modification of existing instructions, it has been decided that as a result of variations, a contract shall be considered “vitiating” only when, the following percentage variation in contract value between tenderers are noticed to have been exceeded.</p> <table border="1"> <thead> <tr> <th>S N</th><th>Value of contract</th><th>Percentage difference bet. Present contractor and new L1 as a result of variation. (Percentage shall be calculated with base as the revised contract quantities multiplied by the rates of the present contractor).</th></tr> </thead> <tbody> <tr> <td>1</td><td>Small value contracts (Tender value less than Rs. 50 lakh)</td><td>10</td></tr> <tr> <td>2</td><td>Other than small value contracts (Tender Value equal to or more than Rs. 50 lakh).</td><td>5</td></tr> </tbody> </table>		S N	Value of contract	Percentage difference bet. Present contractor and new L1 as a result of variation. (Percentage shall be calculated with base as the revised contract quantities multiplied by the rates of the present contractor).	1	Small value contracts (Tender value less than Rs. 50 lakh)	10	2	Other than small value contracts (Tender Value equal to or more than Rs. 50 lakh).	5
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35.1	<p>When the percentage difference between present Contractor and new L-1 is noticed as becoming beyond the values specified above, the following action shall be taken.</p>										
35.1.1	<p>The DFCCIL administration should immediately examine whether it is practicable to bring in a new agency to carry out the extra quantity of work keeping in view the progress of the work in accordance with the original contract and the nature and layout of the work. If it is found that there will be no serious practical difficulty in meeting the additional quantity of work done by another agency, then fresh tenders for the extra quantity maybe invited otherwise negotiating the rate with the existing contractor for arriving at a reasonable rate for the additional quantities of work, may be adopted.</p>										
35.2	<p>The above shall be regulated as under:</p> <p>(a) The case shall be decided by the tender accepting authority (competent for the revised quantity) and shall not be treated as a case of single tender. The provisions of Railway Board letter No. 2007/CE.I/CT/18/Pt. XII dated 31.12.2010 hereby gets superseded.</p> <p>(b) These instructions will be similarly applicable to earning contracts with H-1, H-2 Substituted for L-1, L-2 and so on.</p> <p>(c) Executives while executing the work shall make all efforts to ensure that no Vitiating takes place in normal circumstances. Vitiating should be exceptions rather than a routine affair. Efforts should be made to invite bids on the basis of percentage above/below/at Par.</p> <p>(d) Vitiating should always be computed with respect to the items, rates, quantities and conditions as available at the time of Tender Opening and subsequent changes/ additions by way of new items will not be counted for computing Vitiating.</p>										

36.0	<p>EXTENSION OF TIME WITH LIQUIDATED DAMAGE (LD): FOR DELAY DUE TO CONTRACTOR</p> <p>The time for the execution of the work or part of the works specified in the contract documents shall be deemed to be the essence of the contract and the works must be completed not later than the date(s) as specified in the contract. If the Contractor fails to complete the works within the time as specified in the contract for the reasons other than the reasons specified in Clause 17 and 17-B, of Part-II of GCC APRIL-2022, with up to date correction slip the DFCCIL may, if satisfied that the works can be completed by the Contractor within reasonable short time thereafter, allow the Contractor for further extension of time as the Engineer may decide. On such extension the DFCCIL will be entitled without prejudice to any other right and remedy available on that behalf, to recover from the Contractor as agreed damages and not by way of penalty for each week or part of the week, a sum calculated at the rate of Liquidated Damages as decided by Engineer, between 0.05% to 0.30% of the contract value of the works for each week or part of week.</p> <p>For the purpose of this Clause, the contract value of the works shall be taken as value of work as per contract agreement including any supplementary work order/contract agreement issued. Provided also, that the total amount of liquidated damages under this condition shall not exceed 5% of the contract value or of the total value of the item or groups of items of work for which a separate distinct completion period is specified in the contract.</p> <p>Provided further, that if the DFCCIL is not satisfied that the works can be completed by the Contractor and in the event of failure on the part of the contractor to complete the work within further extension of time allowed as aforesaid, the DFCCIL shall be entitled without prejudice to any other right or remedy available in that behalf, to appropriate the contractor's Security Deposit and rescind the contract under Clause 62 of these Conditions, whether or not actual damage is caused by such default.</p> <p>NOTE:</p> <p>In a contract, where extension(s) of time have been allowed once under clause 17B, further request(s) for extension of time under clause 17A can also be considered under exceptional circumstances. Such extension(s) of time under clause 17A shall be without any Liquidated damages, but the Liquidated damages already recovered during extension(s) of time granted previously under clause 17B shall not be waived. However, Price variation during such extension(s) shall be dealt as applicable for extension(s) of time under clause 17B.</p> <p>As per Clause No. 17(B) Part-II of GCC APRIL-2022 with up to date correction slip</p>
37.0	<p>Quarterly Statement of Claims: The Contractor shall prepare and furnish to the Engineer once in every quarter commencing from the month following the month of issue of Letter of Acceptance, an account giving full and detailed particulars of all claims for any additional expenses to which the Contractor may consider himself entitled to and of all extra or additional works ordered by the Engineer which he has executed during the preceding quarter and no claim for payment for such work will be considered which has not been included in such particulars.</p>
38.0	<p>Settlement of disputes – Indian Railways Arbitration & Conciliation Rules (As per Clause 63 & 64 and its Sub Clauses GCC APRIL-2022 with up to date correction slip). Conciliation of Disputes:</p> <ol style="list-style-type: none"> 1. This clause is applicable in the tender having advertised value less than or equal to Rs 50 Crore.

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	<p>2. All disputes and differences of any kind whatsoever arising out of or in connection with the contract, whether during the progress of the work or after its completion and whether before or after the determination of the contract, shall be referred by the Contractor to the "Chief General Manager" or " General Manager/Co-ord" through "Notice of Dispute" provided that no such notice shall be served later than 30 days after the date of issue of Completion Certificate by the Engineer. Chief General Manager or General Manager/Co-ord shall, within 30 days after receipt of the Contractor's "Notice of Dispute", notify the name of conciliator(s) to the Contractor.</p> <p>3. The Conciliator(s) shall assist the parties to reach an amicable settlement in an independent and impartial manner within the terms of contract.</p> <p>4. If the parties reach agreement on a settlement of the dispute, they shall draw up and sign a written settlement agreement duly signed by Engineer In-charge, Contractor and conciliator(s). When the parties sign the settlement agreement, it shall be final and binding on the parties.</p> <p>5. The parties shall not initiate, during the conciliation proceedings, any arbitral or judicial proceedings in respect of a dispute that is the subject matter of the conciliation proceedings.</p> <p>6. The conciliation proceedings shall be terminated as per Section 76 of 'The Arbitration and Conciliation Act, 1996.</p>
38.1	<p>Matters Finally Determined by the DFCCIL: All disputes and differences of any kind whatsoever arising out of or in connection with the contract, whether during the progress of the work or after its completion and whether before or after the determination of the contract, shall be referred by the Contractor to the CGM/GM-Co-ord and the CGM/GM-Co-ord shall, within 120 days after receipt of the Contractor's representation, make and notify decisions on all matters referred to by the Contractor in writing provided that matters for which provision has been made in Clauses 7(j), 8, 18, 22(5), 39.1, 39.2, 40A, 43(2), 45(i)(a), 55, 55-A(5), 57, 57A, 61(1), 61(2), 62(1), 63(iv) and 63.2.11 of the Standard General Conditions of Contract or in any Clause (stated as excepted matter) of the Special Conditions of the Contract, shall be deemed as 'excepted matters' (matters not arbitrable) and GCC April 2022 decisions of the DFCCIL authority, thereon shall be final and binding on the Contractor; provided further that 'excepted matters' shall stand specifically excluded from the purview of the Dispute Adjudication Board (DAB) and Arbitration.</p>
39.0	<p>All the Provisions as illustrated in clause 54 to 60 of GCC APRIL-2022, related to 'Labour' shall have to be complied with, by the contractor.</p>
40.0	<p>Accepted Program of Work: The Contractor who has been awarded the work shall as soon as possible but not later than 30 days after the date of receipt of the acceptance letter in respect of contracts with initial completion period of two years or less or not later than 90 days for other contracts have to submit the detailed program of work indicating the time schedule of various items of works in the form of Bar Chart/PERT/CPM. He shall also submit the details of organisation (in terms of labour and supervisors), plant and machinery that he intends to utilize (from time to time) for execution of the work within stipulated date of completion. The program of work amended as necessary by discussions with the Engineer, shall be treated as the agreed program of the work for the purpose of this contract and the Contractor shall endeavor to fulfill this program of work. The progress of work will be watched accordingly and the liquidated damages will be with reference to the overall completion date. Nothing stated herein shall preclude the Contractor in achieving earlier completion of item or whole of the works than indicated in the program.</p> <p>In Contracts for works of New Line/Gauge Conversion/Doubling/Railway Electrification, finalized through Tenders having advertised value more than Rs.100crores, the Contractor</p>

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	<p>shall submit a detailed time programme to the Engineer within 30 days after issue of LOA. The program shall include the physical and Financial Progress vis-à-vis program and forecast cash flow adopting Project Management Software such as Primavera/Sure Track/MS Project etc. The program must identify the milestones, interface requirements and program reporting elements. The Contractor shall supply, free of cost one set of authorized software to the Engineer and the soft copy of structured program for the project. This shall be updated every month. The Contractor shall also submit a revised programme whenever the previous programme is inconsistent with actual progress. Each programme shall include:</p> <p>The order in which the Contractor intends to carry out the Works, including the anticipated timing of each stage, Contractor's Documents, procurement, manufacture of Plant, delivery to Site, construction, erection and testing, each of these stages for work by each Subcontractor, if any, the sequence and timing of inspections and tests specified in the Contract, and a supporting report which includes:</p> <p>a general description of the methods which the Contractor intends to adopt, and of the major stages, in the execution of the Works, and details showing the Contractor's reasonable estimate for the number of each class of Contractor's Personnel & Equipment, required on the Site for each major stage.</p> <p>Unless the Engineer, within 21 days after receiving a programme, gives notice to the Contractor stating the extent to which it does not comply with the Contract, the Contractor shall proceed in accordance with the programme, subject to his other obligations under the Contract. The Engineer shall be entitled to rely upon the programme when planning their activities.</p> <p>If, at any time, the Engineer gives notice to the Contractor that a programme fails (to the extent stated) to comply with the Contract or to be consistent with actual progress and the Contractor's stated intentions, the Contractor shall submit a revised programme to the Engineer within 15 days in accordance with this Sub-Clause.</p> <p>As per Clause No. 19(3) Part-II of GCC APRIL-2022 with up to date correction slip</p>
41.0	<p>Commencement of Works: The Contractor shall commence the works within 15 days after the receipt by him of an order in writing to this effect from the Engineer and shall proceed with the same with due expedition and without delay. The Contractor shall establish a quality control mechanism before execution of the work,</p> <p>(i) Contractor shall submit a QAP "Quality Assurance Plan" for the scope of work to be executed. The QAP shall be submitted within 15 days of the issue of LoA and which shall be approved by the Engineer In charge. The QAP shall extensively include the organization, duties and responsibilities, procedures, inspections, documentation and quality control mechanism including sampling and testing of Materials, test frequencies, standards, acceptance criteria, testing facilities, reporting, recording and interpretation of test results, approvals, check list for site activities, and proforma for testing and calibration in accordance with the Specifications and Standards etc.</p> <p>Prior to the commencement of any construction activity, a method statement, proposed to be adopted for executing the Work shall be submitted to Engineer in Charge. The method statement shall include details of material acceptance, execution procedures, checks at various levels, quality parameters, equipment/ machineries, quality assurance, quality control measures, traffic management, inspection checklist, documentation and remedial works etc.</p> <p>As per Clause No. 19(2) Part-II of GCC APRIL-2022 with up to date correction slip</p>
42.0	<p>Workmanship and Testing: The whole of the works and/or supply of materials specified and provided in the contract or that may be necessary to be done in order to form and complete any</p>

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	<p>part thereof shall be executed in the best and most substantial workman like manner with materials of the best and most approved quality of their respective kinds, agreeable to the particulars contained in or implied by the specifications and as referred to in and represented by the drawings or in such other additional particulars, instructions and drawings given during the carrying on of the works and to the entire satisfaction of the Engineer according to the instructions and directions which the Contractors may from time to time receive from the Engineer. The materials may be subjected to tests by means of such machines, instruments and appliances as the Engineer may direct and wholly at the expense of the Contractor</p> <p>As per Clause No. 27(1) Part-II of GCC APRIL-2022 with up to date correction slip</p>
43.0	<p>A. Improvement of Quality in Constructions works – Regarding submission of invoices of materials, the provision of Clause 51 A of GCC is reproduced below :-</p> <p>(i) For a contract of more than one crore of rupees, the Contractor shall, whenever required, produce or cause to be produced for examination by the Engineer any quotation, invoice, cost or other account, book of accounts, voucher, receipt, letter, memorandum, paper of writing or any copy of or extract from any such document and also furnish information and returns verified in such manner as may be required in any way relating to the execution of this contract or relevant for verifying or ascertaining cost of execution of this contract (the decision of the Engineer on the question of relevancy of any documents, information or return being final and binding in the parties). The Contractor shall similarly produce vouchers etc., if required to prove to the Engineer, that materials supplied by him, are in accordance with the specifications laid down in the contract.</p> <p>(ii) If any portion of the work in a contract of value more than one crore of rupees be carried out by a sub-contractor or any subsidiary or allied firm or company (as per Clause 7 of the Standard General Conditions of Contract), the Engineer shall have power to secure the books of such sub-contract or any subsidiary or allied firm or company, through the Contractor, and such books shall be open to his inspection.</p> <p>(iii) The obligation imposed by Sub Clause (i) &(ii) above is without prejudice to the obligations of the Contractor under any statute rules or orders binding on the Contractor.</p> <p>(Authority: Rly Bd's letter No.2021/CE-I/CT/SI/1 dated 04.03.2021)</p> <p>(As per Clause No. 51-A of Part-II GCC-2020, with up to date correction slip)</p> <p>B. Post Payment Audit: It is an agreed term of contract that the DFCCIL reserves to itself the right to carry out a post-payment audit and/ or technical examination of the works and the Final Bill including all supporting vouchers, abstracts etc. and to make a claim on the Contractor for the refund of any excess amount paid to him till the release of security deposit or settlement of claims, whichever is later, if as a result of such examination any over-payment to him is discovered to have been made in respect of any works done or alleged to have been done by him under the contract .</p>
44.0	<p>Infringement of patents:</p> <p>The Contractor is forbidden to use any patents or registered drawings, process or pattern in fulfilling his contract without the previous consent in writing of the owner of such patent, drawing, pattern or trade mark, except where these are specified by the Employer himself. Royalties where payable for the use of such patented processes, registered drawings of patterns shall be borne exclusively by the Contractor. The contractor shall advise the Employer of any proprietary right that may exist on such processed drawings or patterns which he may use of his own accord.</p>

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	<p>In the case of patent taken out by the Contractor of the drawings or patterns registered by him, or of those patents, drawings, or patents for which he holds a license, the signing of the Contract automatically gives the Employer the right to repair by himself the purchased articles covered by the patent or by any person or body chosen by him and to obtain from any sources he desires the component parts required by him in carrying out the repair work. In the event of infringement of any patent rights due to above action of the Employer, he shall be entitled to claim damages from the contractor on the grounds of any loss of any nature which he may suffer e.g. in the case of attachment because of counter feiting.</p> <p>Indemnification by contractor:- In the event of any claim or demand being made or action being brought against the Employer for infringement of later patent in respect of any equipment, machine, plant, work or thing used or supplied by the Contractor under this contract or in respect of any methods of using or working by the Employer of such equipment machine, plant work or thing, the contractor shall indemnify the employer and keep him indemnified and harmless against all claims, costs, charges and expenses arising from or incurred by reason of such claim provided that the Employer shall notify the contractor immediately any claim is made and that the contractor shall be at liberty, if he so desires with the assistance of the Employer if required but at the Contractor's expense, to conduct all negotiations for the settlement of the same or any litigation that may arise there from and provided that no such equipment, machine, plant work or thing, shall be used by the Employer for any purpose or in any manner other than that for which they have been supplied by the Contractor and specified under this contract.</p>
45.0	<p>Insurance (CAR Policy)-</p> <p>Before commencing of works, it shall be obligatory for the contractor to obtain, at his own cost, insurance cover (CAR policy) in the joint name of the contractor and employer from reputed companies under the following requirements:</p> <p>(A) Liability for death of or injury to any person/ employer's staff / animals or things or loss of or damage to any property / things / the work of other contractor (other than the work) arising out of the performance of the Contract.</p> <p>(B) Construction Plant, Machinery and equipment brought to site by the Contractor.</p> <p>(C) Any other insurance cover as may be required by the law of the land.</p> <p>The contractor shall provide evidence to the employer / Engineer before commencement of work at site that the insurances required under the contract have been effected and shall within 60 days of the commencement date, provide the insurance policies to the Employer/Engineer, the contractor shall, whenever, called upon, produce to the engineer or his representative the evidence of payment of premiums paid by him to ensure that the policies indeed continue to be in force.</p> <p>The Contractor shall also obtain any additional insurance cover as per the requirements of the Contract.</p> <p>The Employer/Engineer shall not be liable for or in respect of any damages or compensation payable to any workman or other person in the employment of the Contractor or his sub-contractor or petty contractor / other contractor working there.</p> <p>The Contractor shall indemnify and keep indemnified the employer / Engineer against all such damages and compensation for which the contractor is liable.</p>

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	<p>The Policies of the contractor shall remain in force throughout the period of execution of the works and till the expiry of the defect liability period except for any specific insurance covers necessary for shorter period.</p> <p>If the Contractor fails to effect or keep in force or provide adequate cover as acceptable to the engineer in the insurance policies mentioned above, then in such cases, the engineer may effect and keep in force any such insurance or further insurance on behalf of the Contractor. The recovery shall be made at the rate of 1.5 times the premium/premiums paid by the engineer in this regard from the payment due to the Contractor or from the contractor's Performance security. However, the Contractor shall not be absolved from his responsibility and /or liability in this regard.</p>
46.0	<p>Accident:-</p> <p>(a) The contractor shall, in respect of all staff engaged by him or by his sub- contractor, indemnify and keep the employer at all times indemnified and protected against all claims made and liabilities incurred under Workman's Compensation Act, the Factories Act and the Payment of Wages Act, and rules made there under from time to time or under any other labour and Industrial Legislation made from time to time.</p> <p>(b) The contractor shall indemnify and keep the employer indemnified and harmless against all actions, suits, claim demands, costs, charges or expenses arising in connection with any death or injury sustained by any person or persons sustained due to the acts or omission of the contractor, his sub-contractors, his agents or his staff during the executions of this contract irrespective of whether such liability arises under the Workman's Compensation Act, or Fatal Accident Act or any other statute in force for the time being.</p> <p>(c) The contractor' liability to meet third party claims of the type outlined above will be applicable only in cases where accidents have been caused by workmanship, material, execution or negligence on the part of the contractor.</p> <p>(d) The contractor shall be responsible for all repairs and rectification of damages to completed works or works under execution due to DFCCIL accidents, thefts, pilferage or any other cause, without delay to minimize or to avoid traffic detentions, in a section until the installation are provisionally handed over to the employer.</p>
47.0	<p>GST</p> <p>GST as applicable from time to time on taxable value of each running account bill shall be paid by Contractor. Tenderer should bear the fact in mind while quoting the rates that GST will be paid by Contractor as per prevailing rate as applicable. Documentary evidence of deposition of GST will be produced by contractor for on account bill.</p>
48.0	<p>PERMITS, FEES, TAXES & ROYALTIES</p> <p>Unless otherwise provided in the contract documents, the contractor shall secure and pay for all permits, Government fees and licenses necessary for the execution and completion of the works. The contractor shall pay all taxes and duties.</p> <p>The DFCCIL authorities will not take any responsibility of refund of such taxes/fees. Any violation, in the legal provision of taxes, duties, permits and fees, carried out by the Contractor and detected subsequently shall be sole responsibility of the Contractor and his legal heirs.</p>

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49.0	<p>STATUTORY INCREASE IN DUTIES, TAXES ETC.</p> <p>Tenderers will examine the various provisions of the central Goods and services Tax Act, 2017 (CGST)/ Integrated goods and service tax Act, 2017 (IGST)/ Union Territory Goods and services tax Act, 2017/(UTGST)/respective state's state Goods and services tax Act (SGST) also, as notified by central/state Govt & as amended from time to time and applicable taxes before bidding. Tenders will ensure that full benefit of input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates.</p> <p>All the taxes and duties levied by the State and Central Govt. and by Local Bodies at the prevailing rates applicable on the date of receipt of tender shall be fully borne by the Contractor and shall not be reimbursed to him on any account. The tender shall be inclusive of all taxes levies as mentioned in 1.7above.</p> <p>Further DFCCIL shall not honour any claim arising out of any increase in any of the prevailing statutory duties, taxes, levies, octroi, etc. At the time of quoting/bidding contractor should bear the above fact in mind. The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to DFCCIL immediately after the award of contract, without which no payment shall be released to the contractor. The contractor shall be responsible for deposition of applicable GST to the concerned authority.</p>
50.0	<p>EXCISE DUTY OR ANY OTHER TAXES/DUTIES:</p> <p>The contractor shall bear full taxes /duties levied by state government and / or Central Government/ Local bodies from time to time. This would be entirely a matter between the contractor and the State / Central Government/ Local bodies. No claim, what so ever, on this account shall be entertained by DFCCIL.</p>
51.0	<p>ROAD TAX CHARGES:</p> <p>Road Tax/Charges levied by Government for movement of vehicles of contractor, used in transportation, shall be borne by the contractor and no re-imbursement on this account will be made by the DFCCIL.</p>
52.0	<p>FOREIGN EXCHANGE REQUIREMENTS:</p> <p>Any demand of foreign exchange for importing of equipment's and materials shall not be accepted.</p>
53.0	<p>ANTI PROFITEERING CLAUSE: -</p> <p>The contractor should adhere to anti profiteering provisions as per section 171 of the CGST Act. Where due to change in the rates GST/Change in law, the contractor gets any credits/benefits, the same shall be passed on to DFCCIL by way of reduction in prices.</p>
54.0	<p>INTEGRITY PACT:-</p> <p>As per office memorandum no F.No DPE/13(12)/11-Fin Dated 09.09.2011 issued by Ministry of Heavy Industries (DPE) all PSU should enter into Integrity pact in the required proforma in their procurement transaction/ Contracts with suitable changes specific to the situation in which the pact is to be used. The pact, entering into which would be a preliminary qualification for any bidder, essentially envisages an agreement between the prospective vendors / bidders and the DFCCIL, committing the persons/ officials on both sides not to resort to any corrupt practices in any aspect / stage of the contract. A copy of pre contract integrity pact is enclosed as form no 4 for signature of bidder as acceptance, as and when Independent External monitor is appointed.</p>

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55.0	<p>TOOLS-</p> <p>Tools required for this work will be arranged by the contractor.</p> <p>a. All the tools and plants as required to execute the work will be arranged by contractor at his cost and nothing extra shall be paid on this account.</p> <p>b. The contractor will ensure reconditioning / repair of the tools and plants at his own cost to keep them fit for use. He will repair the worn out tools at his own cost and nothing extra will be paid on this account.</p> <p>c. The contractor should ensure that labour on work removes their tools clear of the track on the approach of the train. After the day's work the contractor should secure tools in proper tool boxes and in no case the labour be permitted to take tools to their homes. Tools should not be allowed to fall in unwanted hands who can tamper with the Railway/DFCCIL track. In the event of accident at the work site the departmental enquiry will be held and in case it is established that derailment/accident has occurred on account of the contractor's negligence or the negligence of his men, damages as mentioned in the clause of penalty will be recovered.</p>												
56.0	<p>PENALTY –</p> <p>(a) In the event of accident at the work site the departmental enquiry will be held and in case it is established that derailment/accident has occurred on account of the contractor's negligence or the negligence of his men, damages at the following rates will be recovered from contractor: -</p> <p style="padding-left: 40px;">Accident involving use of accident Relief train = Rs.50000/-</p> <p style="padding-left: 40px;">Nominal accident not involving use of accident relief train Rs. 10000/-</p> <p>(b) Penalty for an amount of Rs. 500/- to Rs.2000/- depending on the nature of unsatisfactory service, will be deducted from the due amount in the following conditions:</p> <ul style="list-style-type: none">Any undisciplined behavior by the staff.Discourteous behavior towards any officer or staff of DFCCIL.Not wearing proper Safety PPE Kit.Not carrying out the duties listed in the scope of work in a satisfactory Manner.Damage or stealing of any asset or property of DFCCIL or officers and staff of DFCCIL <p>(c) Penalty for some of the breaches in services will be as follows: -</p> <table><tr><th>S.N</th><th>Type of breaches</th><th>Amount of Penalty</th></tr><tr><td>1</td><td>Staff not in proper PPE Kit.</td><td>Rs.50/- per staff per day</td></tr><tr><td>2</td><td>Staff turn up late</td><td>Rs. 100/- per staff per Hour (After one hour late staff will not be allow to work)</td></tr><tr><td>3</td><td>Failure to provide replacement in Time</td><td>Rs.100/- per staff per day</td></tr></table>	S.N	Type of breaches	Amount of Penalty	1	Staff not in proper PPE Kit.	Rs.50/- per staff per day	2	Staff turn up late	Rs. 100/- per staff per Hour (After one hour late staff will not be allow to work)	3	Failure to provide replacement in Time	Rs.100/- per staff per day
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57.0	<p>WORKING HOURS OF PERSONS/ SUPERVISOR :-</p> <p>Contractor shall provide the staff on all days of the months. The working hours of workman shall be 8 hrs in 24 hours or as specified in the schedule, However, timings may be advised without any overall impact on the period of duty as per DFCCIL requirement.</p>												
58.0	<p>DFCCIL not to Provide Quarters for Contractors: No quarters shall normally be provided by the Railway for the accommodation of the Contractor or any of his staff employed on the work. In exceptional cases where accommodation is provided to the Contractor at the Railway's discretion, recoveries shall be made at such rates as may be fixed by the Railway for the full rent of the buildings and equipment's therein as well as charges for electric current, water supply and conservancy.</p>												

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59.0	<p>In case the services of the Contractor are not found satisfactory, or there is a breach of any of the terms & conditions of the contract and/or fails/neglects to carry out any instruction issued to it by DFCCIL from time to time the same can be terminated by DFCCIL on giving of a notice of one month. In case of unsatisfactory performance of the contract, a warning letter will be issued to the Contractor. In case corrective action is not taken, DFCCIL shall have the right to terminate the agreement without any further notice. Unsatisfactory service in this case would be frequent absence or poor attendance of workman, inability to provide replacement, lackadaisical work in maintaining cleanliness, indiscipline in the premises (which includes taking alcohol, using foul language, getting involved in objectionable activities, etc.) or any other non-compliance of the provisions of the Agreement.</p> <p>The Contractor shall not terminate the services of hired staff unilaterally. In case any hired staff is proposed to be replaced/ terminated by the Contractor, such action should be taken only with approval of DFCCIL.</p>
60.0	<p>SITE OFFICE:-</p> <p>The Contractor shall establish the camp office at site and keep on the works at all times efficient and competent staff to give the necessary directions to his workmen and to see that they execute their work in sound proper manner and shall employ only such supervisors, workmen & laborers in or about the execution of any of these works as are careful and skilled in the various trades. The Camp office shall be completely equipped for office working with provision of sufficient T&Ps, Office Equipment, accessories including advance version of PCs, printer, Fax, mail, phone etc and also with facilities like sitting, drinking water etc. The area of the office and facilities required must be sufficient enough to ensure effective office working at site office itself without any difficulties and issues. Suitable site on railway land, if conveniently available, may be allowed to the contractor for setting up the site office, site laboratory, either free of charge or on such terms and conditions that may be prescribed by DFCCIL.</p>

**SPECIAL CONDITIONS
OF CONTRACT
(SAFETY PRECAUTIONS)**

PART-V
SPECIAL CONDITIONS OF CONTRACT
(SAFETY PRECAUTIONS)

1.0	MEASURES TO BE ENSURED PRIOR TO START OF WORK
1.1	The contractor shall not start any work without the presence of DFCCIL supervisors at site.
1.2	The methodology in detail for execution of the work at site shall be approved by engineering in charge of the organization executing the work and copies of the same shall be available with contractor's supervisor, DFCCIL supervisor of the section in whose jurisdiction the work falls.
1.3	Before permitting the execution of certain work involving shutdown / outage of tower wagon for specific time period, DFCCIL engineer-in-charge (APM/DPM/PM/Dy. CPM), of the section shall ensure that he received the prior intimation/confirmation of the following aspects from representative of contractor.
I.	Name and address of the contract assigned to execute the work.
II.	Name of the Contractor's supervisor
III.	Name of the supervisor/assistant engineer/assistant officer of the construction organization/other organizations who are going to be site in charge/in charge of work site.
IV.	List of the number(s) of individual vehicle(s)/ machineries, names and license particulars of the driver(s) proposed to be used by contractor.
V.	Information regarding location, duration and timings during which the vehicles/machinery are planned to be plied/worked.
VI.	The supervisors and operators of the contractor proposed to be deployed at work site which is close to the running track, shall be imparted training by the DFCCIL trainer at contractor own cost about the safety measures to be adopted while working in the vicinity of running track. Further competency certificate to the individual supervisors/operator shall be issued as in Annexure-A by a DFCCIL officer not below the rank of Assistant level officer who is in charge of site. No supervisor/operator of the contractor shall work or allowed to work in the vicinity of running track who is not possession of valid competent certificate.
VII.	Survey of site by supervisor of contractor and DFCCIL to assess the precautions to be taken at site for working of trains and materials required for protection.
VIII.	Written advice to sectional APM/DPM about the detailed planning of work including protection of track and safety measures proposed to be adopted.
IX.	A copy of the approved methodology (to be approved by engineer in charge) proposed to be adapted by the contractor with a view to ensure safety of trains passengers and workers.
X.	Assurance that the methods and arrangements are actually available at site before start of the work and the contractors supervisors and the workers have clearly understood the safety aspects and requirement to be adapted/followed while executing the work.
XI.	An assurance register has been kept at site duly signed by both DFCCIL supervisor as well as by the contractor supervisor as a token of their having understood the safety precautions to be observed at site.
XII.	No work shall which is to be done near running track shall commence unless permitted by sectional APM/DPM/PM/Dy.CPM
XIII.	Supplementary site specific instructions, wherever considered necessary shall be issued by the Engineer in Charge
XIV.	Standard Check list on Safety at Work Sites shall be used to ensure that all the requisite measures have been taken before start of work.
2.0	PLYING OF ROAD VEHICLES AND WORKING OF MACHINERIES CLOSE TO RUNNING TRACKS
(i)	Normally, the road vehicles shall be run or machinery shall be worked so as not to come closer than 6.0m from center line of nearest running track.
(ii)	The land strip adjacent to running tracks, where road vehicle is to ply or machinery is to work, shall be demarcated by lime in advance in consultation with the DFCCIL's Supervisor. Wooden pegs at

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	interval not exceeding 75mts shall be provided along the line marking as permanent marks. The road vehicles shall ply or machinery shall work so as not to infringe the line of demarcation.
(iii)	If a road vehicle or machinery is to work closer to 6.0m due to site conditions or requirement of work, following precautions shall be observed.
a.	In no case the road vehicle shall run or machinery shall work at distance less than 3.5m from center line of track.
b.	Demarcation of land shall be done by bright colored ribbon/nylon cord suspended on 120 cm high wooden/bamboo posts at distance of 3.5 m from center line of nearest running track.
c.	Presence of an authorized DFCCIL's representative shall be ensured before plying of vehicle or working of machinery.
d.	DFCCIL's Supervisor shall issue suitable caution order to Drivers of approaching train about road vehicles plying or machineries working close to running tracks. The train drivers shall be advised to whistle freely to warn about the approaching train. Whistle boards shall be provided wherever considered necessary.
e.	Lookout men shall be posted along the track at a distance of 800m from such locations who will carry red flag and whistles to warn the road vehicle/machinery users about the approaching trains. Lookout man shall be deputed for Safety at Work Sites.
f.	On curves where visibility is poor, additional lookout men shall be posted.
(iv)	If vehicle/machinery is to be worked closer to 3.5m from running track. Under unavoidable conditions, if road vehicles is to ply or machinery is to work closer to 3.5m due to site conditions or requirement of work, following precautions shall be observed:
a.	Plying of vehicles or working of machinery closer to 3.5m of running track shall be done only under protection of track. Traffic block shall be imposed wherever considered necessary. The site shall be protected as per provisions of Para No. 806 & 807 of P-Way Manual as case may be.
b.	Presence of a DFCCIL's Supervisor shall be ensured at worksite.
c.	DFCCIL's Supervisor shall issue suitable caution order to Drivers of approaching train about road vehicles plying or machineries working close to running tracks. The train drivers shall be advised to whistle freely to warn about the approaching train.
(v)	Precaution to be taken while reversing road vehicle alongside the track. The location where vehicle will take a turn shall be demarcated duly approved by DFCCIL's representative. The road vehicle driver shall always face the DFCCIL track during the course of turning/reversing his vehicle. Presence of an authorized DFCCIL representative shall be ensured at such location.
(vi)	Road vehicle shall not be allowed to run along the track during night hours generally. In unavoidable situations, however, vehicles shall be allowed to work during night hours only in the presence of an authorized DFCCIL's representative and where adequate lighting arrangements are made and where adequate precautions as mentioned earlier have been ensured.
(vii)	Road vehicles/machinery/plant etc. when stabled near running tracks shall be properly secured against any possible roll off and always be manned even during off hours.
3.0	EXECUTION OF WORKS CLOSE TO OR ON RUNNING LINES Any work close to or on running tracks shall be executed under the presence of a DFCCIL's Supervisor only.
(i)	Precaution to be taken to ensure safety of trains while execution of work close to the running line or on running lines.
(a)	Contractor has deputed trained supervisors in required number at worksites duly certified by APM/DPM/PM/Dy. CPM in charge of the works.
(b)	Drivers of vehicle/operators of the machines have been briefed about the safety and precautions to be taken while moving / working close to traffic.
(c)	Contractor shall ply road vehicles/working of machinery only between sunset and sunrise. In case of emergency where it is necessary to work during night hours sufficient lighting shall be

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	ensured in the complete work area for the safety of public and passengers. Also additional staff shall be posted as necessary for night working and taking safety precautions.
(d)	The contractor shall not change the approved vehicle/machinery and driver/operator for working at site. Contractor shall not induct any new vehicle/machinery and driver/operator without prior written approval of APM/DPM and the list of such changes with numbers of individual vehicle, name and license particulars of the driver shall be given to APM/DPM/PM/Dy. CPM of the section.
(e)	Contractor shall ensure that road vehicle/machinery ply/work in a way so that these do not infringe the line of demonstration.
(f)	Lookout men with required safety equipment shall be posted where necessary.
(g)	In unusual circumstances, where operator apprehends danger to track while working truck/machinery near running track, following action shall be taken.
a)	The contractor/supervisor/vehicle operator immediately advice the situation to DFCCIL official/officials of the organization executing the work and assist him/them in protecting the track.
b)	Protection shall be done as done for other emergencies.
(h)	Individual vehicle/machinery shall not be left unattended at site of work. If it is unavoidable and becomes necessary to stable the road vehicle/machinery at site near the running track, these shall be properly secured against any possible roll off and always be manned even during non-working hours. In addition the road vehicle / machinery should be stabled parallel to track only so that incase of failure of any securing arrangement, it may not roll towards the track.
(i)	All temporary arrangements required to be made during execution of work shall be made in such a manner that moving dimensions do not infringe. Necessary checks shall be exercised by site in charge from time to time.
(j)	During the hours of night, lamps of temporary indicators which are not of reflective type should be lit at sun-set and kept burning till sun rise, where trains run at night.
(ii)	Precaution to be taken to ensure safety of electrical/signal/ telephone cables while excavating near tracks.
(a)	Particular care shall be taken to mark the locations of buried electrical/signal/telephone cables on the plans jointly with S & T/Electric supervisor and also at site so that these are not damaged during excavation
(b)	Copy of the cable plan should be given to the contractor's authorized representative before handing over the site to start the work.
(c)	Due care shall be taken to ensure that any part of the equipment or machinery or temporary arrangement does not come close to cables while working.
(iii)	Precaution to be taken during execution of works requiring traffic blocks.
a)	Any work, which infringes the moving dimensions or causes discontinuity in the track any activity making the existing track unsafe for passage of trains etc. Shall be started only after the traffic block has been imposed, DFCCIL servant in charge of the work is present at the worksite, engineering signals are exhibited at specified distance and flagmen are posted with necessary equipment to man them etc.
b)	Before closing the work, the track shall be left with the proper track geometry so that the trains run safely and flagmen are kept in the night with safety and track protection equipment to patrol the stretch and take action to protect the track, if so warranted and inform the DFCCIL supervisors.
c)	After completion of work the released sleeper and fittings should be properly stacked away from the track to be kept clear of moving dimensions.
d)	Block shall be removed only when all the temporary arrangement, machineries, tools, plants etc. have been kept clear of moving dimensions.
(iv)	Precaution to be taken during execution of works during night. The work close to running line, generally, shall be carried out only during day hours. At locations, however, where night working is unavoidable, proper lighting arrangement should be made. The engineering indicator boards shall be

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	lighted during night hours as per the provisions of IRPWM. The staff deputed for night working should have taken adequate rest before deploying them in night shift. We can specify duration of night shift from 20.00 hrs to 04.00 hrs. All other safety precautions applicable for day time work should be strictly observed during night working.
(v)	Precautions to be taken to ensure safety of workers while working close to running lines.
a)	Any work close to or on running tracks shall be executed under the presence of a DFCCIL's supervisor only.
b)	Precaution to be taken to ensure safety of trains while execution of work close to the running line or on running lines.
	<ul style="list-style-type: none"> (i) Such works shall be planned and necessary drawings particularly with regard to infringement to moving dimensions shall be finalized duly approved by competent authority before execution of work. The work shall be executed only as per approved procedure and drawings. (ii) All temporary arrangements required to be made during execution of work shall be made in such a manner that moving dimension do not infringe. (iii) Suitable speed restriction shall be imposed or Traffic block shall be ensured as required. (iv) The site shall be protected as per provisions of Para No. 806 & 807 of P.Way Manual as case may be. (v) Necessary equipment for safety of trains during emergency shall be kept ready at site.
c)	A 'first aid kit' shall always be kept ready at site.
(vi)	Precaution shall be taken for safety of public or passengers, while executing works at locations, used by passengers and public. The worksite shall be suitably demarcated to keep public and passengers away from work area. Necessary signage boards such as "Work in progress. Inconvenience is regretted" etc. shall be provided at appropriate locations to warn the public/passengers. Adequate lighting arrangement of worksite wherever required shall be done to ensure safety of public/passengers during night.
(vii)	Precaution to be taken before stacking materials alongside the track to ensure that safety of trains is not affected. The following precautions shall be taken before stacking the materials along the track for stacking of ballast, rails, sleepers etc.
a)	The sites for material stacking should be selected in advance in such a manner as to ensure that no part of the material to be stacked is infringing the Standard Moving Dimensions. A plan of proposed stacking locations be made and signed jointly by an authorized DFCCIL's representative and contractor's representative.
b)	The selected locations shall be marked by lime in advance.
c)	Presence of an authorized DFCCIL's representative while unloading and stacking shall be ensured.
d)	The material shall be stacked in such a height so as to not to infringe SOD in case of accidental roll off.
(viii)	Precaution for handling of departmental material trains Instructions for working of material trains are contained in Chapter XII of IRPWM which should be brought to the notice of the supervisors and other staff working on the material trains. In addition to this, following precautions should be taken:
(a)	Issue of 'fit to run' certificate. As per Para 1207 before a material train is allowed to work, the complete rake should be examined by the Carriage and Wagon staff and a 'fit to run' certificate issued to the Guard.
(b)	As per Para 1208 of IRPWM, a qualified Engineering official should be deputed on the train to ensure working of the material train as the Guard is not qualified to carry out such duties like Supervising of loading and unloading of materials.
(c)	As per Para 1204 of IRPWM, the material train should not be permitted to work during the period of poor visibility due to fog, storm or any other cause except with the permission of the APM/DPM/PM/Dy. CPM. Working of the material trains carrying labour should not be permitted between sunset and sunrise except in an emergency.

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(d)	While unloading rail panels by the side of the running track, placement of the panels, clear of the maximum moving dimensions should be ensured.
(e)	Unloading of rail panels should be done by a team of trained staff under the active supervision of competent Supervisor/Officer.
(f)	Before unloading of rail panels, site should be prepared by way of leveling/removing extra ballast, if any, from the crib and shoulder with the objective to ensure requisite lateral and vertical clearances so as to prevent slippage of rail panels due to vibration during the passage of trains.
(g)	Reasonably adequate block should be asked and provided for unloading of the material and the work should be done preferably in day light to avoid shortcut in haste which may infringe the safety requirements.
(ix)	<u>SAFETY ASPECTS TO BE OBSERVED WHILE WORKING IN OHE AREA</u>
(i)	No electrical work close to running track shall be carried out without permission of DFCCIL representative.
(ii)	A minimum distance of 2m has to be maintained between live OHE wire and body part of worker or tools or metallic supports etc.
(iii)	No electric connection etc. can be tapped from OHE.
(iv)	Authorized OHE staff should invariably be present when the relaying work or any major work is carried out.
(v)	Power block is correctly taken and 'permit to work' is issued.
(vi)	The structure bonds, track bonds, cross bonds, longitudinal rail bonds are not disturbed and
(vii)	If disconnected for the work, they are reconnected properly when the work is completed.
(viii)	The track level is not raised beyond the permissible limit during the work.
4.0	<u>PROTECTION OF TRACK DURING EMERGENCY</u>
(i)	<p>Action to be taken when a contractor's supervisor or vehicle operator apprehends any unusual circumstances likely to infringe the track and endanger safe running of trains. At any time if a contractor's supervisor or vehicle operator observes any unusual circumstances likely to infringe the track and apprehend danger to safe running of track, he shall take immediate steps to advise a DFCCIL official of such danger and assist him in protection of track.</p> <p>The track shall be protected as under. One person shall immediately plant a red flag (red lamp during night) at the spot and proceed with all haste in the direction of approaching train with a red flag in hand (red lamp during night) and plant a detonator on rail at a distance of 600m from the place of obstruction of BG track after which he shall further proceed for not less than 1200m from the place of obstruction from BG track and plant three detonators at 10m apart on rails. After this he shall display the red flag (red lamp during night) at a distance of 45m from the detonators.</p> <p>Attempts shall also be made to send an advice to nearest DFCCIL station about the incident immediately.</p>
(ii)	<p>Action to be taken if train is seen approaching to site of danger and there is no time to protect the track as per guidelines mentioned above.</p> <p>In such a case the detonators shall be planted on rails immediately at distance away from place of danger as far as possible and attention of driver of approaching train shall be invited by whistling, waving the red flag vigorously, gesticulating and shouting.</p>
(iii)	Action to be taken if more than one track is obstructed.
a)	In case of single line protection as above shall be done in both the directions from place of danger.
b)	<p>In case of double line or multiple lines, if other tracks are also obstructed, the protection as above shall be done for other track also.</p> <p>The protection shall be done in that direction and on that track first on which train is likely to arrive first.</p>
c)	The Contractor's Supervisors, Operators and lookout men shall be properly explained about the direction of trains on running tracks.

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(iv)	Equipment required for protection of track. Minimum compliment of protection equipment i.e. 10 detonators, 4 red hand flags, 4 red hand lamps, 4 banner flags and whistles etc. shall always be kept ready at worksites for use in case of emergency. DFCCIL will arrange to provide detonators, whereas Contractor shall arrange other equipment at his own cost.
(v)	Arrangement of lookout men and competency required for lookout man to warn labour about approaching train.
a)	Contractor will provide lookout men
b)	The lookout men shall be properly trained in warning to staff at worksite about approaching train.
c)	Only those lookout men shall be provided at site who have been issued with a competency certificate by the DFCCIL's Supervisor.
d)	In case, it is felt necessary to provide lookout men by DFCCIL, the charges for the same as fixed by DFCCIL Administration shall be recovered from Contractor.
5.0	TRAINING TO SUPERVISORS AND OPERATORS OF CONTRACTOR The Supervisors and Operators of the contractor proposed to be deployed at work site, which is close to the running track, shall be imparted mandatory training by the DFCCIL at site free of cost about the safety measures to be adopted while working in the vicinity of running track. Engineer-in charge of the work shall decide the scale, extent & adequacy of training. In case training is imparted at a recognized DFCCIL training institute, the charges for the same, as decided by DFCCIL, shall be recovered from contractor. A competency certificate to this effect to the individual Supervisor/ Operator shall be issued as given below by a DFCCIL Officer not below the rank of Project Manager. No Supervisor/Operator of the Contractor shall work or allowed to work in the vicinity of running track that is not in possession of valid competency certificate. All the labour, materials, tools, plants etc. except detonators, required for ensuring safe running of trains shall be provided by Contractor at his own cost. Wherever lookout men are provided by DFCCIL, charges at the rate of Rs. 500/- per man day shall be recovered from Contractor.
6.0	SPECIAL CONDITIONS FOR WORKING OF ROAD CRANES To ensure safe working of road cranes used in works in connection with provision of ROB/RUB/Subways, following items shall invariable be ensured before putting the cranes to use:- <ul style="list-style-type: none"> (i) No machine shall be selected to do any lifting on a specific job until its size and characteristics are considered against the weights, dimensions and lift radii of the heaviest and largest loads. (ii) The contractor shall ensure that a valid Certificate of Fitness is available before use of Road Cranes. (iii) Contractors should utilize the services of any competent person as defined in Factories Act, 1948 and approved by Chief Inspector of Factories. (iv) The laminated photocopies of fitness certificate issued by competent persons, the operators' photo, manufacturer's load chart and competency certificate shall always be either kept in the operator cabin or pasted on the visible surface of the lifting appliances. (v) All lifting appliances including all parts and gears thereof, whether fixed or movable shall be thoroughly tested and examined by a competent person once at least in every six months or after it has undergone any alterations or repairs liable to affect its strength or stability.

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7.0	<p>Contractor shall indemnify DFCCIL against any loss/damage to public property, travelling public, DFCCIL or his own staff due to his (contractor's) negligence. In case there is any mishap, a fact finding inquiry will be conducted by DFCCIL. A show cause notice will be issued to the contractor, in case he is prima-facie held responsible. Contractor's reply to show cause notice will be considered by the Engineer in Charge before taking final decision. In case contractor is found responsible for the mishap, recovery from him will be affected for only tangible direct losses.</p>
	<p style="text-align: center;"><u>Competency Certificate</u></p> <p>Certified that Shri _____ Supervisor/Operator of M/s. _____ has been trained and examined in safety measures to be followed while working in the vicinity of running DFCCIL track for the work _____. His knowledge has been found satisfactory and he is capable of supervising the work safely.</p> <p>This certificate is valid only for the work mentioned in this certificate only.</p> <p style="text-align: center;">Signature and designation of the officer</p>

SPECIAL CONDITIONS OF CONTRACT (TECHNICAL)

PART-VI

Part A

SPECIAL CONDITIONS OF CONTRACT (GENERAL-TECHNICAL)

Name of Work: OHE Work in connection with providing permanent connection between IR and DFCCIL track at Madar Station under Ajmer unit of WDFC.

1.0 The brief scope of work covers “OHE Work in connection with providing permanent connection between IR and DFCCIL track at Madar Station under Ajmer unit of WDFC.”

The jurisdiction of workplace is between Madar- SDHN section under CGM /DFCCIL/Ajmer. The work shall be executed under supervision of authorized representative of PM/EL/DFCCIL/All. If required by DFCCIL, any other station/Site may be included under Schedule of work at same rates and no additional charges shall be given for this.

1.1 Scheme of work: - Within a period of 15 days beginning from the date of issue of Letter of Acceptance of Tender, the Contractor shall submit the detailed time schedule for execution of work and various documents enumerated in tender papers to the employer.

1.2 If the performance of the outsourced personnel is unsatisfactory, DFCCIL shall give a notice of 15 days to the Service Provider to take necessary action to improve the performance of outsourced personnel and the performance does not improve even after 15 days of such communication, the Service Provider shall provide additional list of eligible/ Suitable candidates for replacement to DFCCIL within 05 days' time failing which the remuneration for delayed period in respect of such person will be deducted from amount due to firm/ agency.

1.3 Under this work, broad activities are as under:-

(i) Electrification of Connecting line having 0.70 TKM (Approx).

(ii) Shifting of existing OHE from old structure to new structure

(iii) Dismantling of existing (old) structure, etc.

1.4 The work shall be carried out in accordance with the approved standard of electric traction works over DFCCIL/Indian Railways.

1.5 The work shall include design of modification which shall be submitted by contractor to DFCCIL. Work shall be started after approval of design/ drawing. The design/drawing of modification work shall be complying to IRSOD, SSOD, ACTM and RDSO guidelines as required for 2x25KV OHE of DFCCIL. The benchmarks of DFCCIL shall be followed in all respect.

1.6 The contractor shall procure various items from DFCCIL approved vendors only. The approved vendors are of two categories i.e. (i) RDSO/CORE approved (ii) Non RDSO/CORE approved (CAC)/DFCCIL approved.

1.7 The material shall be confirming the relevant specifications and drawing as adopted by DFCCIL.

1.8 Released material: Old released material will be returned to concern Executive/Electrical in-charge as explained in the explanatory notes.

1.9 Where there is any conflict between the Tender document on one hand and GCC of works-2022 on the other hand, the latter shall prevail.

1.10 The contractor shall inspect the site and make himself acquaint with the scope of work and site condition before quoting in this tender.

2.0 Additional Specification:

- 2.1 The work shall be carried out strictly as per applicable rules & regulations, manuals and applicable code of practices.
- 2.2 If any minor alterations are found necessary the contractor will do the same within the quoted rates.
- 2.3 The work shall be carried out in best workman like manner and any defect in the work of changes in the design etc. as pointed out by Inspecting authority shall be carried out by the contractor within quoted rates.
- 2.4 The work will require Power block of UP or DN or UP&DN lines which will be arranged by DFCCIL. the contractor shall submit requirement of power cum traffic block in advance. Necessary discharge rods, banner flags etc will be provided by DFCCIL. contractor shall clear the block in time.
- 2.5 If required, the Tower wagon shall be provided free of cost by DFCCIL to contractor during the power block works.
- 2.6 All the safety gadgets to the workman of contractor shall be arranged by the contractor.
- 2.7 The contractor shall deploy skilled manpower having good experience of working in 25KV/2x25KV electrified sections under power block. Contractor shall ensure to impart necessary safety counselling to the staff regarding safety rules to be followed in 2x25 KV electrified sections. DFCCIL shall not responsible for any accidents or injury to the contractor's staff.
- 2.8 In case of any dispute regarding the layout and any other technical matter, the decision of Project Manager Elect./Ajmer will be final and binding on the contractors.
- 2.9 In case tenderer wants to see any drawing/ specifications, he can visit Ajmer DFCCIL office on any working days.

3.0 Procurement and inspection of material:

- 3.1 All material shall be procured from RDSO/CORE approved or NON RDSO/ CORE approved (CAC) vendors as per list of principal sources and second sources for item to be used in WDFC.
- 3.2 **Material inspection shall be carried out as under:**
 - (a) **Major items i.e. Steel Structures and 33KV cable** –Third party inspection by RITES/ Intertake India Pvt. Ltd/ TUV India Pvt. Ltd./ Bureau Veritas India Pvt. Ltd as per CO guidelines issued on 19.01.2023. Inspection charges shall be borne by contractor.
 - (b) **Other minor items: - by consignee.**
- 3.3 Contractor shall provide all necessary assistance in carrying out test and inspection at his own cost.

4.0 Progress and time of completion:

- 4.1 The work will commence immediately after receipt of the detail acceptance letter and the currency of the contract is six months from the date of issue of the advance acceptance letter.

5.0 Completion Test:- On completion of installation, tests confirming the relevant specification, I.E. Rules, applicable code of practices and manuals shall be carried out.

- 6.0** If any damage is caused to the DFCCIL assets/properties during execution of schedule work, it shall be the responsibility of the contractor to repair/make good the promptly at his own cost to the entire satisfaction of the Executive Electrical /Supervisor In charge.
- 7.0** All the waste material shall have to be removed on the same day after execution of work, by the contractor.
- 8.0** All the rejected material should be removed from the site immediately by the contractor.
- 9.0** Bad workman ship pointed out by the GM/Elect or his representative shall be rectified by the contractor at his own cost.
- 10.0** The contractor shall sign the site order.
- 11.0** The contractor shall explain to his staff about safety rules & precautions to be followed in 2x25 KV electrified sections. No work shall be carried out on the roof of Tower wagon in wired section without obtaining permit to work from authorized engineer of DFCCIL. DFCCIL Engineer will arrange to switch off OHE power supply and provide discharge rods before issuing permit to work in writing.
- 12.0** The contractor shall be entitled for payments as per accepted rates as per item wise schedule of rates for supply and erection activity to the satisfaction of DFCCIL's authorized engineer
- 13.0** The work shall be executed under supervision of nominated executive / sr. executive/ electrical who will carry out 100% check on the executed work and certify the same.
- 14.0** The work shall be test checked up to 20% of executed work and quantity by nominated APM/Dy.PM.

15.0 INSURANCE:

- i. Before commencing of works, it shall be obligatory for the contractor to obtain, at his own cost, insurance cover (Contractor All Risk - CAR policy) in the joint name of the Contractor and Employer from reputed companies under the following requirements:
- ii. Liability for death of or injury to any person/ employer's staff / animals or things or loss of or damage to any property / things / the work of other contractor (other than the work) arising out of the performance of the Contract.
- iii. Construction Plant, Machinery and equipment brought to site by the Contractor.
- iv. Any other insurance cover as may be required by the law of the land.
- v. The contractor shall provide evidence to the employer / Engineer before commencement of work at site that the insurances required under the contract have been effected and shall within 60 days of the commencement date, provide the insurance policies to the Employer/Engineer, the contractor shall, whenever, called upon, produce to the engineer or his representative the evidence of payment of premiums paid by him to ensure that the policies indeed continue to be in force.
- vi. The Contractor shall also obtain any additional insurance cover as per the requirements of the Contract.
- vii. The Employer/Engineer shall not be liable for or in respect of any damages or compensation payable to any workman or other person in the employment of the Contractor or his sub-contractor or petty contractor / other contractor working there. The Contractor shall indemnify and keep indemnified the Employer / Engineer against all such damages and compensation for which the contractor is liable.
- viii. The Policies of the contractor shall remain in force throughout the period of execution of the works and till the expiry of the defect liability period except for any specific insurance covers necessary for shorter period.
- ix. If the Contractor fails to effect or keep in force or provide adequate cover as acceptable to the engineer in the insurance policies mentioned above, then in such cases, the engineer may effect and keep in force any such insurance or further insurance on behalf of the Contractor. The recovery shall be made at the rate of 1.5 times the premium/premiums paid by the engineer in this regard

from the payment due to the Contractor or from the contractor's Performance security. However, the Contractor shall not be absolved from his responsibility and /or liability in this regard.

16.0 ELECTRICAL CONTRACTOR LICENSE:

Contractor must have valid Class-'A', Electrical Contractor License issued from appropriate government authority to execute mentioned works

17.0 QUANTITIES:

The approximate estimated quantities of various items of works are included in Schedule of quantities and rates. However, quantities can be increased/ decreased as stipulated in Special Conditions of Contract.

18.0 NEW ITEMS OF WORK:

If during the execution of the work, the contractor is called upon to carry out any new item of work not included in Schedules, the contractor shall execute such works at such price as may be mutually agreed with the Purchaser before commencement after obtaining the competent authority's approval and sanction. The rates will be based on the Rly's LOA/rate analysis as per the current market / prevalent rates of such or similar items available with the DFCCIL/Railway Administration in that or nearby areas.

19.0 SUBMISSION OF BILLS:

On award of contract, a procedure order for submission of bills for payment shall be jointly drawn by finance and the purchaser. The contractor will be required to submit the bills as per the joint procedure order.

20.0 PAYMENT TERMS:

Payments for erection and commissioning included in schedule shall be made in stages as under: -

- (i) 80% of the item price (material cost) shall be paid on receipt of material in DFCCIL/Railway custody after inspection. If for any item of work, price of material and erection is not separately available, 80% of the cost of item of work will be considered as material cost.
- (ii) Further payment of material and erection cost to cover 90% of the cost of item of work shall be made on successful testing and commissioning of the installation.
- (iii) Balance 10% payment shall be released on issue of completion certificate by the Purchasers Engineer.

TECHNICAL SPECIFICATION

PART-B
TECHNICAL SPECIFICATIONS
CHAPTER-I
OVERHEAD EQUIPMENT BASIC DETAILS

1.1 Track Gauge & Track Centers:

- (a) The track gauge is 1676 mm in multiple track Zones. The normal distance between track centers shall be generally more than 6000 mm.
- (b) **Speed:** The overhead electrification is designed with clearances as provided in the Standard Schedule of Dimension for Dedicated Freight Corridor Jan. 2013 for maximum speed of 120 kmph and shall permit raising of the tracks by 275 mm to allow ultimately axle loads to be increased to 32.5 tons in future.
- (c) **Curves:** The minimum radius shall comply with the requirements as follows: Minimum radius for the Main Line: 700 meters (2.5 degree curve)
Minimum radius for other than Main Lines 438 meters (4 degree curve)
Where degree of the curve is the angle subtended at the center by a chord of 30.5m (refer Para 401 of Indian Railway Permanent Way Manual).
- (d) **Cant :** The curve speed and cant relationship shall be based on the following equations:
Actual Cant $C_a = \frac{GV^2}{127R}$ Where C_a : Actual cant [mm]
G: Dynamic Gauge in mm i.e. 1750 [mm]
V: Equilibrium Speed in km/hr i.e. 85 [km/hr] R: Radius of the curve [m]
The standard speed for actual cant is defined by considering the maximum permissible speed (100 km /hr.), speed restriction, gradient and train operation plan. The equilibrium speed of actual cant setting for general section is 85 km/hr. The cant computed is rounded off nearest 5mm. The allowable applied cant shall not be over 140mm and the cant deficiency shall be limited to 75mm.
Cant transition shall be straight ramp. Cant excess shall be limited to 75mm.
- (e) **Low Joints:** For low or loosely packed joints a difference of 10 mm in the opposite rail is taken as the basis for estimating the displacement of the Pantograph with respect to its normal position
- (f) **Formation:** Generally sections with more than one track have common formation. In certain lengths, however, the formation for different track may be separate.
- (g) **Displacement:** The general design of overhead equipment shall permit a displacement of ± 100 mm of tracks without difficulty and any adjustment of the overhead equipment on this account shall be of such a nature as could be done conveniently without changing any component of the overhead equipment.

1.2 Sectioning:

- (a) Insulated overlaps are provided for facility of isolator. Some of the overlaps may be provided with manually operated isolator switches.
- (b) **Yard Supply:** The sectioning diagram/s also indicate the tracks in station yard and siding whose equipment is electrically independent from those of other tracks. The overhead equipment in yards and sidings may be fed through isolator switch or interrupter in accordance with arrangement indicated in the sectioning diagram/s.

- (c) **Section Insulators:** Section insulators shall be provided as indicated in the sectioning diagrams, or crossover between main tracks and to isolated sections of overhead equipment in yards and sidings.
- (d) **Return Conductor:** Return conductor may be run on traction structures or masts. A single conductor shall be used for such return conductors.
- (e) **Sectioning Diagram:** The provisional sectioning diagram/s of the sections to be electrified will be given to the successful tenderer.

1.3 Pantographs: Motive Power Pantograph Characteristic

The Pantograph details, used DFCC rolling stock, are as follows:

- a) Overall width (Including Horns) 1800mm
- b) Number of collector strips 2
- c) Collector material Metalized carbon strips
- d) Working width of the head 1040 mm
- e) Static contact force 7 ± 0.4 kg on OHE
- f) Working range (above rail level) (m) 4.58 to 7.55

1.4 Overhead Equipment:

- (a) **Brief Description:** Essentially the traction overhead equipment shall consist of a standard catenary wire from which a grooved contact wire is suitably suspended by means of droppers. In order to cater for a speed of 120 Km/h the contact wire is given a pre-sag of about 0.8 mm per meter for 54 meter span and reduced suitably for other spans or as per latest guideline.
- (b) **Catenary:** The Catenary Conductor shall be Hard Drawn Stranded Magnesium Copper (Cu-Mg) 125 mm² (37/2.10) size. The catenary wire is conforming to RDSO Spec. No. TI/SPC/OHE/Cat (Mg-Cu)/0120 or DIN 48201 - T1 & T2, EN 50119, DIN 43138 and capable of withstanding minimum of 100⁰C,
- (c) **Contact wire:** The contact shall be conformed to EN 50149 and withstand minimum 100⁰C continuously without affecting mechanical properties as per EN 50119 The Contact wire is 150 Sq. mm Cu-Sn 0.2 high conductivity wire and for yard it is 107 Sq. mm Cu- ETP contact wire.
- (d) **Droppers:** Droppers shall be made of stranded conductor copper Bronze wire approximately 10 mm² flexible, Dia. 4.5mm.
- (e) **Encumbrance:** As a general rule, the nominal "encumbrance", i.e., the center distance between the catenary and contact wire at the support shall be 1.40 m. Deviation from this figure will be permitted in special cases (e.g. spans near over bridges, structures with more than one cantilever etc.)
- (f) **Jumpers:** All jumpers connected to OHE conductors shall be of copper only. The details may be referred in DFCCIL OHE- Jumper OHE connection arrangement drawings.

1.5 Type of equipment:

The overhead equipment used shall normally be either of the regulated or unregulated type. Unregulated tramway type equipment (Contact wire only) may be adopted where specially indicated by the Purchaser.

- (a) **REGULATED:** In the regulated type of overhead equipment, the tension of both the catenary and the contact wires shall be maintained at a constant value at all temperature by means of automatic tensioning devices to take up the variation in the length of overhead equipment due to temperature variation.

An anti-creep shall be provided at a point approximately midway between two tensioning devices and not more than 750 meter from any one of them. The general arrangement of an anti-creep is shown in a drawing listed in Annexure. The arrangement shall generally consist of the galvanized steel wire anchored on the masts adjacent to the anti-creep central mast in accordance with the relevant drawing. Alternatively, the arrangement may consist of catenary on either side of the boom of a portal with the contact wire running through and providing a jumper connection as per general arrangement shown in typical drawing listed in Annexure.

- (b) **Unregulated:** The unregulated type of OHE has no provision for automatic regulation of tension of either the catenary or the contact wire.

1.6 Plane of Contact:

- (a) **Regulated:** The regulated overhead equipment shall be so erected that the contact wire has the designed sag.
- (b) **Un-regulated:** The contact wire shall have no sag at a temperature of 35° C.
- (c) **Tramway type:** In tramway type equipment, the contact wire will have its own natural sag when erected.
- (d) **Dropper:** Dropper charts to be used for standard span of regulated and unregulated OHE would be supplied by purchaser. Dropper for non-standard spans, spans with section insulators and special locations shall be calculated by the Contractor in accordance with the method indicated by the Purchaser and submitted to the Purchaser for approval.

1.7 Tensions:

(a) Regulated:

- (i) In regulated equipment the tension in the catenary shall be 1200 kgf and in the contact wire shall be 1200 kgf in each conductor.

1.8 Clearances:

- (a) **General:** The distance between live parts and parts at earth potential (or part likely to be earthed) shall be as large as possible.

E&M Clearances

Item	Dimension
25kV Live metal to earth	
- Static	250
- Dynamic (passing)	200
25kV Live Metal to Vehicles	
- Static	290
- Dynamic (passing)	220

Phase Difference (47.6kV)	
- Static	540
- Dynamic (passing)	300
Between conductors of different electrical sections	500
Gap at Insulated Overlap	200
Gap at Uninsulated Overlap	

In all cases the values given in Standard Schedule of Dimensions of DFCCIL, 1676mm Gauge (2013 revised) shall be observed along with any other supplementary rules that may be issued by the Railway Board and advised to the Contractor.

- (b) Over-bridges and Tunnels:** The clearances which are to be made available at over bridges, signal, gantries and other over line structures shall be based on the above rules.
- (c) Platform Sheds and Other Structures:** In the course of checking the overhead equipment pegging plans, the Contractor shall prepare a list of platform sheds and other structures in the vicinity of track to be wired. The clearances to these structures shall be in accordance with those shown in the relevant drawings listed in Annexure. If these clearances are not available, the Contractor shall advise the Purchaser in time to enable the latter to take up necessary modification.

1.9 Height of Contact Wire:

- (a)** Maximum height of the rolling stock with Double Stacked Container, above Rail level 7.10m. This height of the Rolling Stock above rail level shall result in contact wire height above rail level as follows:

Normal at the support : 7.54 m Minimum (anywhere in the span) : 7.47m
 Minimum under Overline structure : 7.41 m

- (b) Gradient of Contact wire:** Any change in the height of the contact wire shall be made gradually and the maximum slope shall not normally exceed 3 mm per meter on main line and 10 mm per meter on sidings. The end spans of any section with a gradient of contact wire shall have a slope not greater than half the main slope.

1.10 Stagger: To ensure uniform wear of contact strips of pantographs, the contact wire shall normally be staggered in a manner which will be indicated by the Purchaser.

1.11 Termination:

- (a) General:** Traction overhead lines shall be terminated using components specified. The termination may be carried forward by one or two spans if anchoring facilities so required.
- (b)** Terminating wires shall be electrically connected to the conductors with which they are likely to approach closely or come into contact under normal conditions.
- (c) Supplementary insulation:** If a terminating wire passes a live conductor to which it should not be connected, i.e., in a different elementary section, the portion of the terminating wire close to the live conductor shall be separated by means of insulators. The insulators shall be located in such a manner as to clear the swept zone of the pantograph under the worst conditions and as far away as is possible from live conductors.

1.12 Type of structures:

- (a) **Cantilever:** The overhead equipment of main tracks in case of multiple track sections shall be electrically and mechanically independent of one another by provision of independent cantilever masts to the maximum extent possible
- (b) **Head spans:** Head span construction may be adopted with unregulated overhead equipment. A single head span shall not normally cover more than six tracks.
- (c) **Portals:** In case where the tracks in a multiple tracks section do not permit location of independent masts and where automatic tensioning of overhead equipment is required, rigid portals may be used. Also in the vicinity of points and crossings, portals may be used, provided it is not possible to have prescribed setting with independent cantilever masts. These structures shall be equipped with standard bracket assemblies for supporting individual equipment of different tracks. The use of such structures is to be avoided as far as possible and for this purpose the Purchaser will arrange to slew the tracks, if practicable. A single portal shall normally not cover more than five tracks. Portal structures will also be employed at anti creep central locations and such portals will have necessary guy arrangement.
- (d) **Foundations:** Foundations for all structures shall be designed in an economical manner by following the methods of design indicated by the Purchaser and observing the schedule furnished by him.

1.13 Cantilever assembly: The bracket assembly carrying overhead equipment shall be of the swiveling type. The assembly shall be such that the tubes adopted will permit easy adjustment of the whole equipment after erection to cater for displacement of the track during maintenance up to the extent of 100mm on either side except as otherwise relaxed by the Purchaser. In special locations, pull off arrangements may be used with the approval of the Purchaser with the approval of the Purchaser.

1.14 Overlaps: Overlaps shall be provided at suitable intervals such that neither the tension length exceeds 1,500 m nor the fixed anchor to balance weight anchor exceeds 750 meter.

- (a) **General:** The two contact wires at the overlapping zone shall be parallel to each other in a place parallel to the track and run separated from each other
- (b) **Insulated:** In the case of insulated overlaps the separation between the two contact and the two catenary wires shall be 0.5m
- (c) **Points and Crossings:** Arrangements of overhead equipment of different type e.g. regulated, unregulated or tramway at points and crossings shall be in accordance with the standard drawings

1.15 Light weight Section Insulators:

- (a) **Brief description:** The section insulators shall provide effective electrical isolation of two elementary electrical sections of overhead equipment and permit smooth passage of the pantograph in either direction at all speeds up to 120 Km/h. **The outline of a section insulator is shown in a drawing listed in Annexure for imported Item list.** The section insulators shall be of light weight section insulator type.

1.16 Isolators: Manually operated isolator single or double pole type with or without earth contact assembly may be required to bridge certain section insulator or insulated overlap. In certain large Yards, isolators controlling different lines may be grouped together on a gantry.

1.17 Other Conductors:

The sizes of conductors for the main lines are furnished in the Table as below:

Conductor	Minimum Size	Material	Remarks
Catenary	125 sq. mm	Copper alloy	Material having temperature range minimum 100 ⁰ C as per EN 50119
Contact wire	150 sq. mm	Copper alloy	
25 kV Feeder	288 sq. mm	AAAC	Material having temperature range minimum 80 ⁰ C as per EN 50119
Aerial Earth Conductor	181.6 sq. mm	ACSR	
Buried Earth Conductor	20 MM Dia	GS	Material having temperature range minimum 80 ⁰ C shall be used

Conductors for the Yard Lines: The size of catenary and contact wires for yard lines shall be 107mm² HDGC copper and 65 mm² catenary to RDSO's specifications and copper contact and catenary wires withstanding minimum 80⁰C.

1.18 Bridges and tunnels over Bridges:

- (a) **Over Bridge:** The complete overhead equipment (i.e., both the catenary and the contact wires) shall normally pass under overline structures. Additional intermediate suspension points shall be provided if necessary, to ensure the specified minimum height of contact wire being maintained. In general case the catenary may be anchored on either side of the over line structure and the contact wire carried underneath.
- (b) **Tunnels and Cuttings:** The arrangements proposed for the equipment in tunnels and cuttings shall take into account the special features of each location and shall be in accordance with general design specified.
- (c) **Safety Screen:** On over bridges metallic protective screens shall be provided in order to prevent and person from coming into contact with the live overhead equipment. Such screens shall be properly earthed.

1.19 Height Gauge at Level Crossing:

Height gauge is to be provided at all level crossing in accordance with the standard arrangement drawings.

- 1.20 Bonding and Earthing:** Bonding and earthing shall be done in accordance with the approved DFCCIL earthing and bonding documents. Work shall be taken up according to the approved earthing and bonding management plan.

CHAPTER – II

EQUIPMENT, COMPONENTS AND MATERIALS

2.1 General: This chapter deals with the details and specifications of the equipments, components and materials to be used for traction overhead equipment, switching stations, booster transformer stations and LT supply transformer stations.. In general based on the specifications issued by various bodies, such as Indian Standards Institution, British Standards Institution etc, specifications have been issued by the CORE.

2.2 Compliance of standard Specification

Tenderers offer equipment in accordance with the appropriate International/National standard specifications of the country of manufacture. But such offers will be treated as deviations and should be quoted clearly English rendering of the text and illustrations of the national standard specifications and explanatory notes on the specific deviation from IEC, British or Indian Standards in question, shall also be submitted in Form. In case of doubt, the Purchaser shall decide the clause and specification applicable and the contents of the specification and standard mentioned above shall guide such decisions.

2.3 Quality Assurance: The provision of Part I for quality assurance will apply, including facilities to be provided by the manufacturer.

2.4 Inspection and Test: These comprised inspection and tests conducted at the manufacturer's factory for ensuring quality of manufactured items as part of the Quality Assurance Programme.

2.4.1 All works connected with this contract shall be done in accordance with the standard established methods of inspections and shall comply with relevant Indian Electricity Rules, ISI code, RDSO /CORE Specification and Standards.

2.4.2 Normally the inspection of all the equipments, materials, fittings and components will be carried out by **DFCCIL/ Authorized agency** at the manufacturer's premises. In case of extreme emergency /exceptional circumstances, material may be inspected by authorized representative of DFCCIL at the manufacturer's premises before dispatch and no materials shall be dispatched from the manufacturer's premises until these are inspected and/or approved. Any unreasonable delay in inspection will be reasonable ground for extension of time for completion of the work.

2.4.3 All erection work will be subjected to inspection by the authorized representative of DFCCIL to ensure that the work is done in accordance with the specification and approved drawing. The decision of the authorized representative of DFCCIL shall be final in respect of acceptability or otherwise of any material, fitting, component or equipment required for the work.

2.4.4 The works which shall be rejected by the inspecting officer of the DFCCIL, the contractor shall replace such rejected equipments/assemblies of the work forthwith but in any event not later than a period of one week from the date of rejection. The contractor shall bear all the cost of such replacement including freight etc but without being entitled to any extra time on this account.

2.5 Test Certificates: Three copies of the test certificates of successful prototype tests carried out at the manufacturer's Factory on all equipments shall be furnished to the Purchaser within a month after completion of the prototype test. Three copies of the routine test carried out of each equipment shall also be furnished, after the equipment is passed by the Purchaser's representative for inspection.

2.6 INSPECTION:

2.6.1 The works shall be accepted after inspection by the DFCCIL particularly for the following aspects.

- i.) Setting out of Electrical equipment. ii.) Approval of quality of works.
- iii.) Erection, testing & commissioning as per the approved drawings and the Indian Standard codes of practice.
- iv.) Safety works to conform to Indian Electricity Rules. These aspects shall be checked during periodical inspections. Any defects, deficiencies noticed in the works will be recorded in the site order book so that the contractor acts upon it without loss of time.

2.6.2 The cost of the inspection will be on DFCCIL accounts subjects to any other provisions contained hereunder or elsewhere in contract. One week's notice must be given by the contractor to the Inspecting Officer to take up the inspection.

2.6.3 The contractor shall provide without any extra cost to the DFCCIL all materials, equipments, machine, plant, tools and labour etc of every kind of which the DFCCIL inspecting officer may consider necessary for any test and examination to be made at site or elsewhere.

2.6.4 All the equipments and material shall be of best quality and will be tested/inspected by the Engineer or Engineer's representative at site of work and approved before they are installed/used in the works covered in the contract. If the contractor uses any equipment's materials without the prior approval of DFCCIL these are liable to be rejected.

2.6.5 The decision of the Inspecting Officer with regard to the acceptance or rejection of the equipment/work will be final and binding on the contractor

2.7 Bulk manufacture: Bulk manufacture may be undertaken only after specifications approved of the Purchaser or his representative has been obtained indicating that tests on the proto types are satisfactory. Where prototype has already been approved in connection with manufacturer may proceed after exemption from proto type tests is received from the purchaser in writing.

2.8 Interchangeability: All equipments, components and fittings shall be interchangeable and supplies shall be in accordance with the purchaser's design unless otherwise specifically approved by him. Components such as fuses, indication lamps etc should be replaceable with substitutes available indigenously as far as possible. Important components and fittings and their drawings have been listed in Schedule.

2.9 Technical specification: Following specifications (latest revision) will govern the supply and testing of important materials, components and equipment's:

Structural Steel	IS 2062-1992 IS 800-1984 IS 808-1989
Tensile Testing	IS 1608 - 1972 for steel products etc. IS 1731 - 1971 IS 2004 - 1991
Welding	IS 816 - 1969
Tin Bronze Castings	IS 306 - 1983 Aluminum Bronze Castings: IS 3091 - 1965
Malleable Iron Castings	IS 2108 - 1977 Grey Iron Castings: IS 210 - 1978
Aluminum Castings	IS 617 - 1975 Copper Strip for Formed Fittings: IS 1897-1983

Tender No.: AII-EL-MD-IQG-Madar-T-22

Contact Wire	ETI/OHE/76(6/97) with A & C slip No 1,3,4,5,6,7,8 & 9
Annealed stranded copper Conductor for	ETI/OHE/3(2/94) with A&C jumper wire slip No.1 issued on 4(95)
Copper Bus-bar	RE/30/OHE/5(11/60) Steel Tubes: ETI/OHE/11(5/89)
Hot dip zinc galvanization of steel masts	ETI/OHE/13(4/84) with A&C (Rolled and fabricated) tubes and Fittings slip No.3 of (4/90)
Stainless steel wire rope	TI/SPC/OHE/WR/1060(06/06) with A&C slip 2 of (5/07)
Solid core Porcelain Insulator	TI/SPC/OHE/INS/0070(04/07) with A & C Slip No- 01 & 02 (10/16)
Silicone Composite Insulators	TI/SPC/OHE/INSCOM/1071, Rev-01 (12/16)
25 kV Single and Double pole Isolators	ETI/OHE/16(1/94) with A & C for RE slip No. 2 (03/04)
Bolts, Nuts and Washers	TI/SPC/OHE/FASTNERS/0120 with A&C slip No.5 of (03/13)
Aluminum Alloy section and tube for 25 kV	ETI/OHE/21(9/74)
Standard Drawings and Traction	ETI/OHE/53(6/88) with A&C slipNo.5 of Overhead Equipment (11/06)
Light Weight Section Insulator	For Conventional IR OHE- Drawings no. EJG3430/102-21 and for Heavier OHE of WDFC Drawing no. Drawings no. EJG3430/202-31
Enameled Steel Plates	ETI/OHE/33(8/85)
Retro-Reflective Structure Number Plates	ETI/OHE/33A(12/97) with A & C Slip no. 8 (11/12)
Fittings for 25 kV, 50 HZ, AC	ETI/SPC/OHE/FITTINGS/0130(10/13)with OHE A&C slip No.1 (10/13)
Cadmium Copper Conductor	ETI/OHE/50(6/97) with A/C slip no-1 to 5 for OHE traction (09/16)
Bimetallic (Al -Cu) Strip	ETI/OHE/55(4/90)
Specification for 3-pulley type regulating	TI/SPC/OHE/ATD/0060 Rev 1 equipment (3:1 ratio) with A & C Slip No. 1 (09/16)
Technical Specifications for Fittings	ETI/SPC/OHE/FITTINGS/0130(10/13) for 25 KV AC OHE
Specification for discharge/earthing pole	ETI/OHE/51(9/87) Assembly for 25 kV ac Traction
Specification for continuous cast copper	ETI/OHE/65(8/87) with A & C wire rods Slip No. 1 to 4 (09/16)
Code of bonding and earthing for 25kV	ETI/OHE/71(11/90) (03/93) AC 50 Hz single phase traction system
Specification for 4 axle car for winding	ETI/OHE/72(11/91) and/or unwinding of contact wire and catenary wire
Gearless hand operated pulling and Lifting	TI/SPC/OHE/TOOLPL/1990 machines (TIRFOR) (11/99)
Ratchet lever Hoist (Pull - lifts)	TI/SPC/OHE/TOOLPL/1990 (11/99)
Insulated Cadmium copper catenary	TI/SPC/OHE/INSCAT/0000 with 19/2.1mm. diameter for provision under A & C Slip No. 1 & 2 Over line structures in the 25 KV AC Electric traction

2.10 (a) Nomenclature and Marking: All components and fittings supplied by the contractors shall bear the respective identification number and a mark to identify the source of supply except in the case of galvanized tubes, bolts and nuts and/or any other fittings as may be agreed to by the purchaser.

(b) In case of insulators, galvanized steel tubes, stainless steel wire rope and conductors, name of manufacturer shall be specified in "As Erected" drawings for identification.

2.11 Steel Work and Protection against Rust:

(a) **Galvanizing:** All ferrous materials and fittings shall be hot dip galvanized according to the Specification ETI/OHE/13(4/84) with A & C slip No.1 of 5/86, 2 & 3 of (4/90).

(b) **Painting:** Some components or parts may, with the approval of the purchaser, be protected only by paint and parts as protected shall be given two coats of composite Aluminum primer and two coats of aluminum paints. The second coat of aluminum paint shall be applied after erection.

(c) **Rectification at Site:** In case of modifications, which would damage the protective coat, repairs to such damage would be allowed only in exceptional circumstances.

The part damaged shall be protected in accordance with the method indicated in specification ETI/OHE/13/(4/84) with A&C slip 1 of 5/86 or any other method approved by the Purchaser. The contractor shall, in all such cases obtain prior permission from the purchaser before carrying out repairs.

2.12 Bracket for Unregulated Tramway type Equipment:

Unregulated equipment shall normally span two tracks and the contact wire carried on V- Type clamps suspended from a span wire. The span wire shall be provided with a turn buckle at only one end.

2.13 Droppers:

(a) **General Designs:** The droppers shall generally be designed as shown in standard drawings and made of copper wire about 5mm dia meter conforming to IS:282, and shall be attached to the cat nary wire by a copper dropper clip. The contact wire shall be held by a clip of aluminum bronze as shown in the standard drawings. The distribution of dropper shall be in accordance with standard design.

(b) **Loading:** The droppers shall be able to withstand a vertical load of 200 Kg. at the point of attachment to the contract wire and the clip shall not slide under horizontal load of 120 Kg.

(c) The permissible tolerance in the overall length of a dropper will be ± 5 mm.

(d) Current carrying Dropper shall be made of stranded conductor of copper bronze approximately 10 mm² flexible, Dia. 4.5 mm. Flexible dropper conforms to DIN 43138.

2.14 (a) Insulators: All solid core insulators shall conform to TI/SPC/OHE/INS/0070 (04/07) with A & C Slip no-01 & 02 (10/16) or TI/SPC/OHE/INSCOM/1071, Rev- 01 (12/16) as the case may be.

(b) **Interchangeability:** For free inter changeability only the following types of insulators shall be used. While the shapes of the insulators may vary slightly from those shown in the drawings, the essential dimensions of the galvanized malleable cast iron caps as given in standard drawings shall be adopted.

(i) **Stay- arm Insulators:** These insulators will be used in conjunction with the tubular stay arm of all bracket assemblies.

(ii) **Bracket Insulators:** These will be used at the base of each bracket assembly in conjunction with bracket tubes.

(iii) **9 -Ton Insulators:** These will be used at all places for cut in and terminal insulation including these in return conductors but excluding those in earth wire.

- (iv) **Sold Core Post Insulators:** These will be used at all places for supporting isolator mechanism, bus bars, jumpers etc of 25 KV.

2.15 Ending Fittings and Splices:

- (a) **General Designs:** Terminating or ending fittings and splices on copper conductors shall be of the cone type clamping on both the inner and outer strands of conductors except for contact wire ending clamps which may be wedge type. The arrangements shall be easy to install and also be such as would apply the clamping pressure gradually without shock (See ETI/OHE/49(9/95) with A&C slip No.1 of 3(97).
For Aluminum Alloy/pure aluminum conductor, the end fittings shall be either cone type, strain clamp type or any other type as approved by the Purchaser.
- (b) **Loading:** All the parts shall be capable of withstanding, without damage, a load greater than the ultimate strength of the wires to which they are fitted. In the case of threads, no damage shall occur when they are subjected to a load equal to two third of the ultimate strength of the wire.
- (c) **Restricted use of Splices:** The use of splices shall generally be avoided and their use shall be restricted to the minimum necessary. Over main tracks, there shall be no splice in the contact wire on first erection. Elsewhere, not more than one splice be used in any tension length (i.e. anchor to anchor) for which prior approval shall be taken from the Purchaser. Additional splices may, however, be provided to enable retention of conductors which are found defective during and/or after erection. Splices may also be permitted for repair of damage due to theft or railway accidents.
- (d) **Strength of Assembled Fittings:** The strength of fittings assembled with appropriate conductors or wires shall not be less than that of the conductors or wire itself.
- (e) **Additional Terminating Wires:** Cadmium copper stranded wire of 65 sq.mm nominal section of 37/2.1mm (as used in head span construction) may be used as additional terminating wires for extending single and double conductors respectively, if termination at the nearest structure is not feasible.

2.16 Electrical Connections for OHE:

- (a) **General Designs:** All electrical connections between conductors shall be made by parallel clamps. The general arrangements of connections are shown in the standard drawings, listed in Annexure.
- (b) **Jumper:** The Drawing of OHE Jumper connection arrangement as approved by DFCCIL to be followed. The Drawing no. Copper jumpers is 5/OH/TD/1179:
- (i) **Large Jumper** of annealed copper in accordance with specification ETI/OHE/3 (2/94) A and C Slip No.1 of April-1995.
- (ii) **Small jumper** of annealed copper in accordance with the specification IS 434 Pt-I. Aluminum jumpers, wherever used, shall be of all aluminum stranded conductor 19/7/4 mm bare 3/4 H generally conforming to IS:8130:1984.
- (iii) **160 sq. mm flexible copper jumper wire** made of annealed stranded 100% pure copper conductor as per RDSO's spec No. ETI/OHE/3 (2/94) with A & C Slip No.1 or latest, all components and fittings required for providing a flexible copper jumper 160 sq. mm.
- (c) **Bus Bars:** Bus bar or rigid jumpers in copper where used shall be of 18mm dia of copper rod in accordance with RE/30/OHE/5(11/60). Aluminum bus bars wherever used shall be of 36/30.4mm or 36/28mm tubing. Aluminum tubular bus bars shall be made of alloy to IS:5082-1981. The tolerance on diameter and thickness shall be as per class-I IS:2673-1979.
- (d) **Feeders:** Feeders shall be of AAAC Conductor 31/3.15 mm 288 sq. mm IS 398 Part-IV
- (f) **Earth wire** shall be of steel reinforced aluminum conductor 181.6 Sq.mm AL 30/2.5 mm + ST 7/2.5 mm conforming to EN 50182 & EN 60889.

2.17 Regulating Equipment:

- (a) A general arrangement is shown in the standard drawings listed in Annexure. The regulating equipment should have a minimum adjustment range of 950mm. Stainless steel wire rope in accordance to TI/SPC/OHE/WR/1060 (06/06) with A & C slip no. 1 & 2 (05/07) shall be used in these equipments and these shall be sufficiently flexible for the purpose.
- (b) **Counter Weight:** Counter weights and arrangements used shall be such that these could be accommodated within 330 mm (13 in) measured transverse to the track under the worst condition of wind. The vertical upward movement shall be listed with a fixed top.
- (c) **Reduction Ratio:** Reduction ratio in the arrangement used shall be three in three pulley type.
- (d) In DFCCIL 5 Pulley ATD is use for main line as per EN 50119.

2.18 Head-span Construction:

- (a) **Size and Factor of Safety:** All span wires used in head span construction shall be stranded cadmium copper. All the wires shall be designed with a factor of safety of not less than 4 under the most unfavorable conditions.
- (b) **Turn Buckles:** Each span wire shall be equipped with a turn buckle at each end of the span.
- (c) **Additional Insulators:** Additional insulators shall be provided as necessary in head span, cross span and steady span, wires to ensure electrical independence between the equipment in different elementary electrical sections.

2.19 Isolators: 25 KV Isolator switches shall comply with specification as indicated in Para 2.4.9.

2.20 Bus Bars:

- (a) No splicing will normally be allowed in the tubular bus bars unless the length of the bus bar exceeds 6m.
- (b) **General:** The bus bar shall be clean, smooth, mechanically sound and free from surface and other defects. Provision shall be made where necessary to allow for expansion and contraction of bus bars caused by temperature variation. The open ends of bus bars shall be covered by suitable tubes cap, wherever the tubular bus bars are required to be bent, the radius of the bend shall be not less than 200mm.
- (c) **Joint:** The joints in bus bars shall be mechanically technically and electrically sound so that the temperature rise under normal working conditions does not exceed 400 C for an ambient temperature of 650 C.
- (e) All aluminum joints shall be thoroughly cleaned and smeared with suitable corrosion inhibiting joint compound before and after assembling the joint. Similar procedure shall be followed for connecting the equipment terminals to the aluminum bus bars with bimetallic connectors.

CHAPTER -III

DESIGNS & DRAWINGS

3.1 General:

- (a) This chapter deal with the procedure for approval of designs and drawings.
- (b) The type designs shall be as few as possible to cover the largest field of application consistent with economic consideration.
- (c) In all drawings, as far as possible only such symbols as are in international use, shall be used.

3.2 Contractor's Drawings:

- (a) The Contractor shall submit to the Purchaser for approval except where otherwise specified below, all detailed designs and drawings which are necessary to ensure correct supply of equipments, components and materials and to enable correct and complete erection of overhead equipment, witching stations, booster transformer stations and LT supply transformer stations in an expeditious and economic manner.
- (b) Responsibility: It is to be clearly understood that all original designs and drawings shall be based on a thorough study. General designs and dimensions shall be such that the Contractor is satisfied about the suitability of the designs for the purpose. The Purchaser's approval will be based on these considerations and notwithstanding the Purchaser's acceptance, the ultimate responsibility for the correct design and execution of the work shall rest with the Contractor.

3.3 Standards for Drawings: All designs, legends notes on drawings and schedules of materials shall be in English and shall be prepared in the metric system. All designs and drawings shall conform to specification RE/OHE/25(3/66).

3.4 Basic Designs:

- (a) Standard Designs: Where the Contractor adopt designs and drawing conforming to standard designs, drawings and specifications of the Research, Designs and Standards Organization, Manak Nagar, Lucknow (RDSO) for basic arrangements, equipments, components and fittings of traction overhead equipment, switching stations booster transformer stations and LT supply transformer stations and adopts employment schedules furnished by the Purchaser, he shall verify such designs and drawings and employment schedules and satisfying himself that these are correct and the latest approved drawings, before use. Within two months of the issue of letter of Acceptance of Tender the Contractor shall indicate to the Purchaser, the list of standard basic arrangement, components and fittings, drawings and employment schedules, which he will adopt for the purpose of the work. The procedure outlined in specification shall be followed for approval of basic designs.
- (b) Deviations: Normally deviation from the standard drawings of the Purchaser will not be accepted. However, in exceptional cases where the Contractor desires to suggest improvements as a results of his experience or other developments, he shall justify his proposals with supporting explanatory note.

3.5 Special Designs:

- (a) In cases where standard designs, drawings or employment schedules do not cover requirement of special location or site conditions, the Contractor shall submit his own designs or drawings along with supporting calculations and notes for scrutiny and approval of the Purchaser.

- (b) Such special designs shall generally be in conformity with basic designs furnished by the Purchaser and in accordance with the specifications. If the Contractor wishes to adopt special designs which do not conform to the general basic designs of the Purchaser, he shall submit alternative designs and drawings justifying his proposal.

3.6 Particular Designs and Working Drawings for OHE:

- (a) **Contractor's Pegging Plans:** The Contractor shall carry out survey and prepare overhead equipment pegging plans. He shall submit such plans for approval after checking their feasibility at site.

- (c) **Principles of Layout:** The Contractor shall in all cases ensure that the final pegging plans are in conformity with the latest "Principles of preparation and checking of OHE layout plans and sectioning diagram" issued by RDSO.

- (d) **Provisional Layout Plans:** The contractor shall prepare and submit overhead equipment layout plants incorporating the following information:

- I. The run of wires in different thickness or color in special cases and termination.
- II. The run of wires for future wiring indicated to the contractor, in dotted lines.
- III. Exact position of all cut- in- insulators, including section insulators.
- IV. Direction and value of stagger at each traction structure location.
- V. Clearance of live conductors to structures in the vicinity including bridges, signals gantries etc.
- VI. Layout of feeders.
- VII. Jumper connections and connection to switches and switching stations.
- VIII. List of infringements.
- IX. Kilometer numbers and type of structures.
- X. Location and number of switches.

(i) Schematic sectioning diagram drawn to a convenient scale showing section insulator, number of switches, elementary sections and connections to the switches and switching stations.

(ii) Table giving reference of approved profile drawings, feeder layout plans and other relevant drawings.

- (e) **OHE Profile Drawings:** After completion of the overhead equipment layout plans, the Contractor shall prepare an overhead equipment profile drawing showing the actual height of the contact wire under each over line structure, the gradient and height of the contact wire on either side of the structure and the encumbrances at structure until normal height of contact wire and encumbrances are restored.

- (f) **Cross Section Drawing:** While the layout plans are being finalized, the Contractor shall submit for approval, insofar as yard between outermost points and crossing are concerned, cross section drawings for each structure showing guy rods, if any, indicating the cross section of the formation, height and nature of the bank, whether new or old, nature of soil, type of foundation block, structure proposed, reverse deflection of the structure and all necessary particulars for erection of the foundation and the structures. In the preparation of drawings, care shall be taken to show all obstructions such as Signal wires, points rods and their correct location in reference to track/tracks as well as underground obstructions like pipes, cables etc after collecting such information from the site.

In open line sections, cross-sections shall be submitted in the following Performa, separately for each Railway line. For special foundation drawings with all necessary details shall be

submitted to the Purchaser. In case of side bearing foundation with extra depth, formation details at such location and necessary details of anchor foundation will be submitted.

Cross Section for the Open Route Section:

Km-----to-----

1. Location No.

2. Chainage

3. Setting Distance in 'm'

4. Step Distance in 'm'

5. B.M. Code

6. Soil Type & Pressure

7. Foundation Type & Size

8. Mast Size & Length in 'm'

9. Mast Embedded Length in 'm'

10. Reverse Deflection Cm

11. Super Mast Length (m)

12. Cross Arm Length (m)

13. Any Obstruction

(f) Final Layout Plans: After all the cross-section drawings in a section covered by layout plan are finalized and foundations are casted, the Contractor shall revise the layout plans to take into account any modifications to the locations of structures during the process of casting of foundations.

(g) Structure Erection Drawings: The Contractor shall then submit structure erection drawings for each structure incorporating all the details included in the cross-section drawing for the structure and as erected at site and the details of the bracket assembly, mast extensions, isolator mounting frame and anchorage of overhead equipment, feeder return conductors proposed for each structure together with all particulars necessary for the correct erection of overhead equipment at the structure. For structures with isolators, the details of electrical connection shall also be incorporated. In open line sections the Contractor shall submit structure erection particular in the typical Performa as given below separately for each main line track in addition to particular details as indicated in the Performa for cross-section drawings. Modification to this Performa if found necessary will be finalized at the time of the structure erection drawings.

Sr. No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Location No.

Chainage

1. Encumbrance
2. Contact wire height

3. Stagger
 - i) Cat nary
 - ii) Contact

4. Stay arm
 - i) (a) M
 - ii) CODE

5. Bracket
 - i) (b) M
 - ii) CODE

6. REGISTER
 - i) C/D(m)
 - ii) CODE

7. STD/BENT Code

8. Identification Mark: Other Reference/Codes for Misc. items line steel work for stay/bracket attachment Misc. single/double cat etc. will be indicated.

3.7 Schedule of Quantities:

- (a) Within a month of the issue of Letter of Acceptance of tender, the contractor shall assess the quantities of various items of work including various components and fittings as covered in Schedules & sections along with the corresponding quantity of various fittings and components for approval of the Purchaser. Such an assessment shall be revised at suitable intervals after the first assessment is approved till the work is completed.

On receipt of approval of each & final layout plan from the purchaser, the following schedules of quantities relating to each layout plan shall be submitted within a fortnight.

- (i) Schedules of number of masts, weight of different masts and total weight of masts.

- (ii) Schedules of number of foundations, types volume of different foundations and total volume.

- (iii) Schedule of quantities of various items of work other than masts and foundations under Schedule .

- (iv) Schedule of net tension lengths of contact, cat nary and feeder wires and lengths required to be ordered.

- (v) Schedule of length of other wires and conductors required to be ordered and
- (vi) Schedules of small parts steel-work.

3.8 Submission of Drawing Schedules:

- (a) The submission of designs and drawings for approval shall be done in the manner indicated below.

In case Contractor wish to deviate from standard drawings, he should submit to the Purchaser revised drawings with full details of deviation sought explaining the necessity of deviation, calculations and other supporting documents. The Purchaser, if satisfied about the necessity and adequacy of deviations, shall refer the matter to RDSO for necessary approval. In case of deviations on working drawings, decision shall be communicated by the Purchaser to the Contractor. The number of copies of drawings which shall be submitted are indicated in the following sub - pares. The Purchaser will return one copy of the drawing either with approval, subject to modification where necessary or with comments. The Purchaser shall endeavor to return this copy within a period of fifteen days from the date of receipt and shall normally return the copy within a month. Where drawings are returned with comments or approval subject to modifications, the Contractor shall submit to the Purchaser within fifteen days of receipt of such advice revised drawings for approval taking into account the comments or modifications. Also the Contractor shall as far as possible avoid correspondence on such comment and shall endeavor to settle any difference of opinion on the comment by discussions with the Purchaser's Engineers. No drawings shall be resubmitted without incorporating the modifications required by

the comments of the Purchaser, unless the Purchaser has agreed to the deletion of such comments.
- (b) **Deviation from Standard:** In case of deviations from standard designs and drawings, copies of correspondence and drawings shall be sent in duplicate to the CGM/All or his successor/nominee. In the particular case of deviation in the design of fittings the drawings of deviation in the design of fittings the drawings submitted by the Contractor shall be actual manufacturing drawings complete with tolerances and full specifications of the materials used. In addition, four samples of the modified fittings shall also be submitted after the drawings are approved.
- (c) **Special Design:** Special designs to meet the requirement of particular locations and local conditions shall be submitted in due time in duplicate for approval.
- (d) **Contractor's Pegging Plans:** The contractor should survey and prepare pegging plans and submit three copies of such plans for approval.
- (e) **Cross Section Drawings:** Cross-section drawings shall be submitted for approval in two copies for a convenient section at a time separately for sections within station limits. Such drawings shall be submitted progressively and as far as possible without gap.
- (f) **OHE Layout Plans and Profile Drawings:** Overhead equipment layout plan, provisional and final and profile drawings shall be submitted for approval in three copies.
- (g) **Structure Erection Drawings:** Structure erection drawings shall be submitted for approval in two copies for a section at a time separately for section within station limits and sections outside station limits, progressively and without gaps.

(h) Schedule of Quantities: Schedules of quantities for each approved layout plan/switching station shall be submitted for approval in two copies.

(i) Distribution Copies: On receipt of Purchaser's qualified approval to the Contractor's drawings, Schedule of quantities, the Contractor, shall submit original tracings of those drawings and schedules for the signature of the Purchaser in token approval within seven days of the receipt of approval and the Purchaser shall as far as possible return the same to the contractor within 7 working days thereafter. On receipt of the tracing from the purchaser, the contractor shall submit copies for distributions to field officers and other department as indicated below within 7 days of receipt of approval tracings:

i.	Standard designs including fittings drawings:	8 copies.
ii.	Special designs:	8 copies.
iii.	Final pegging plans:	8 copies.
iv.	Structure cross- section drawings:	6 copies.
v.	OHE layout plans:	14 copies
vi.	OHE profile drawings:	8 copies
vii.	Structure erection drawings:	8 copies
viii.	Schedule of quantities:	6 copies

In all the above cases the Contractor has the option to supply only six copies of the approved drawings provided one of them is a transparent paper print.

3.9 Completion Drawings and Schedule: After completion of work, all drawings and designs submitted by the Contractor and approved by the purchaser shall be made up to date incorporating actual supply and erection particulars including the name of make of insulators, galvanized steel tube, stainless steel wire rope etc. The mark of conductors shall be specified in the "As erected" OHE Layout plans, SED and other relevant drawings for identification. Such drawings and schedules shall then /be verified and corrected, if necessary, by the Contractor jointly with the Purchaser's representatives. The verified and corrected drawings shall be supplied in four sets, one of which shall be transparencies of linen or film reproduction or any other durable material approved by the Purchaser.

CHAPTER -IV

ERECTION AND INSTALLATION OF EQUIPMENT

- 41 Scope:** This chapter deals with the methods of erection and installation of traction equipment, including casting of foundations and erection of structures.
- 42 Methods of Erection:** All work shall be done in accordance with methods of erection and installation of equipment approved by the purchaser. In the case of switching station, booster transformer stations, LT Supply transformer stations, standard methods adopted for erection and installation of electrical equipment shall be adopted.
- 43 Sectioning:** The entire equipment shall be erected in accordance with the finally adopted sectioning diagram and in such a way so as to facilitate sectioning which may be required in future and which will be indicated by the purchaser.

- 44 Inspection:** All erection and installation work shall be subject to inspection by the purchaser to ensure that the work is done in accordance with the specification, approved designs and drawings and is of the best quality suitable for the purpose.
- 45 Measurements:** All measurements for location of structures and foundations shall be made with the aid of steel tapes. On curves, these measurements shall be taken on the outer rail of the middle track in the case of odd number of and on the inner Rail of the first outer tracks from the center of the formation in the case of an even number of tracks, structures on curves shall be located in the radial of set of the location as determined.
- 46 Bolts, Nuts etc:** All bolts, nuts, locknuts, screws, locking plates and split cotter pins etc, hall be properly tightened and secured and the contractor shall carry out systematic inspection of this aspect of work after all adjustments to overhead equipment are completed and prior to offering completed section of equipments to the purchaser for inspection and testing.
- 47 Damage to Galvanizing Painting:** In loading, transport and erection, all galvanized painted materials shall be handled with care to avoid damage to galvanizing/painting. If galvanizing/painting is damaged inspire of all care taken, the damaged parts of component shall be put up for inspection, to obtain permission from the purchaser to carry out repairs.
- 48 (a) Foundations:** The contractor shall carry out soil pressure tests in accordance with methods approved by the purchaser to determine permissible bearing pressure of various representative types of soils in the presence of the purchaser's representative during the pegging out of site inspection. He shall adopt only those values as accepted by the purchaser for the design and foundations.
- (b) Location:** The location of each foundation or anchor block shall be set out correctly in accordance with approved structure cross- section drawings or foundations layout drawings, as the case may be, in the presence of the purchaser's representative.
- (c) Method of Installation:** The contractor shall adopt mechanized method (Concrete mixer) for installations of foundation in the station areas with five lines or more. The contractor may adopt either manual or mechanized method for installation of foundations in the other areas. He may erect traction mast or structures in the same operation as casting of foundations or erect them subsequently in cored holes left in foundation blocks and grout them separately. In any case, the method of casting of foundation blocks and erection of masts or structures shall be subject to the approval of the purchaser.
- (d) Excavation:** Normally, excavation of soil for foundations or anchor block along the tracks may be done up to length of 1 to 1.2 m and depth of 0.8 to 1 m without shoring, providing the excavated hole is concreted immediately and not left overnight. Shoring shall otherwise be done unless the hole is re-filled with soil and tempted. In case the length of excavation is 1 to 1.2 m and depth of excavation is 1 to 1.2 m and depth for foundations and anchor blocks alongside the tracks is more than 0.8 to 1 m, the excavation may be undertaken only after certification by the Purchaser's representative to be safe and concrete is cast on the same day. Shoring shall be done to the satisfaction of the purchaser's representative, if the excavated hole is left overnight. All water logged locations will come under the purview of this Para. In poor soil or ash banks, no excavation shall be done without adequate shoring and piling. For large foundations and water logged locations shoring shall be done in accordance with drawings submitted/shuttering of the pits should be provided effectively to the satisfaction of the

purchaser. Core hole covers should be provided promptly on casting of foundation (within 48 hours) and their edges cemented to the foundation block. Prior to doing so, water should be filled in the core hole so as to assist in curing. The date of casting should be inscribed on the foundation block. In case of platform areas and level crossings, the core should be filled with sand before provision of core hole covers so as to prevent any injury to rail users even if the core hole cover gets damaged or is displaced. The track ballast should be restored to its original form promptly after casting of the foundation block. The exceed earth should be removed well clear of the area so as to avoid any mixing up with the track ballast or any obstruction to the track drains. In case of cuttings, the earth should be thrown well away from the shoulders so that there is no risk of its flowing back to the drain during the rains.

- (e) **Concreting:** All concreting or grouting shall be done in accordance with Para 2.2.4 with ballast graded for the purpose specified in Para 2.2.5. The concrete shall be poured and tamped properly in accordance with the method approved by the purchaser. The contractor shall arrange to provide concrete testing samples for tests once every week or as and when required by the purchaser, to determine crushing strength after 7 days or 28 days curing as required.
- (f) **Muffs:** All anchor blocks and foundations of structures carrying overhead equipment shall be provided with concrete muffs. The top of these muffs shall be above the level of ground of the track formation and of adequate height of not less than 15 cm to afford reasonable protection during rainy weather. Muffs may be installed at the same time the masts are grouted or after the mast/structure is loaded with equipment. The foundations of structures for switching stations need not, however, be provided with muffs. The top of such foundations shall be given a slope of 1 in 50 towards the edge to ensure that water does not collect at the base of the structure of the frame work of the equipment.
- (g) Suitable grooves or niches shall be provided in the foundation blocks, wherever required, at the time of casting, to enable embedment of earth strips etc. to avoid the necessary of chipping off concrete.
- (h) Conduits for cables should be embedded in the foundation blocks, wherever required, to avoid subsequent chipping off and breaking of the foundation blocks.

- 49 (a) Masts and Structure Erection:** In case traction masts or structures are erected in cored foundations, till such time they are grouted, they shall be properly wedged to prevent them leaning towards the track and endanger safety of moving vehicles.
- In case traction masts or structures are erected simultaneously with the casting of the foundations, the contractor shall provide suitable temporary supports approved by the purchaser. The masts shall be embedded in the foundation blocks for the correct length specified in approved drawings.

NOTE: Masts/uprights should be grouted on the same day they are dropped in the foundations.

- (b) Reverse Deflection:** All traction masts and structures shall be erected with the correct reverse deflection so that they become reasonably vertical after they are loaded. The method of erection of masts with the correct reverse deflection shall be submitted to the purchaser for approval.
- (c) Infringement to Standard Dimensions:** In erection, care shall be taken to ensure that no part of the traction mast, structure or any fitting located on such mast or structure infringe the Schedule of Dimensions of DFCCIL.

(d)Alignment of Masts at Gantries: The main masts of gantries shall be carefully aligned to enable easy and good assembly of fabricated steel work.

4.10 Overhead Equipment:

(a)A suggested method for erection of OHE which would ensure good speed and quality erection is included in this chapter. The contractor may, however, follow other methods which they consider would speed up and ensure good quality work, subject to the approval of the purchaser. Any wiring method should take into consideration appreciable stretch of the catenary and contact wires in the initial days after they are strung and put under tension.

(b)Bracket Tubes: In the erection of bracket assemblies, it shall be ensured that the free length of the bracket tube beyond the catenary suspension bracket is at least 200 mm to facilitate adjustment during maintenance.

(c)Stay Arms: The choice of stay arms shall be such that their adjusters are capable of adjustments of minimum of 90mm in either direction except as otherwise relaxed.

(d)Insulators: Before insulators are used in bracket assemblies or dispatched to work site for erection from the contractor's stores depot, they shall be tested as specified for routine mechanical test. No chipped or cracked insulators shall be installed. All insulators shall be cleaned before offering complete sections of equipment for inspection and testing.

(e)Stringing Catenary: Care shall be taken to avoid kinking or bridge caging of the catenary wire in stringing and subsequent operations. While stringing, the wire shall be suspended from pulley blocks hung from the suspension clamp eye of bracket assemblies. The pulleys shall be fitted with ball bearing free movement in all directions to prevent damage to the strands of the wire. The design shall also be such that it will prevent slipping off of the wire. The design shall also be such that it will prevent slip of the wire during stringing operations. The designs of the pulley shall be submitted to the purchaser for approval. After initial stringing of the catenary, it shall be maintained at the 'No Load Tension' for a minimum duration of 48 hours before the pulley blocks are removed and the catenary is clamped to suspension clamps of bracket assemblies. Shorter periods may, however, be allowed by the purchaser.

(f) Stringing Contact Wire: Care shall be taken to avoid formation of kinks, twists and damage to contact wire in stringing and subsequent operations, while stringing the contact wire, it shall be suspended from pulleys hung from droppers fitted to the catenary in their final position. In curves, the contact wire shall be run in pulleys located at traction masts or supports, corresponding to the approximate final position of the wire.

(g)Location of Droppers: Droppers shall be correctly positioned in each span to ensure correct level of contact wire as per dropper chart applicable to the span.

(h)Clipping Droppers: The droppers shall be clipped on the contact wire only after a minimum duration of 48 hours from the time the automatic tensioning device is brought into action. Shorter periods may, however, be allowed by the purchaser.

(i) Auto Tensioning Device: The auto-tensioning device shall be erected with the correct height of the counter weight above rail level with corresponding distance between the pulleys of the device for a temperature of 35°C before it is connected to the overhead equipment and put into action. The installation of the device shall be such as to permit free, easy and unobstructed movement of counter-weight.

- (j) **Cut- in Insulators:** All insulators in out of run shall be so positioned that they are away from the swept zone of the pantographs and will not foul with them. The live parts of these insulators shall also be so located that they are at least 2m away from structures other than these supporting traction overhead equipment.
- (k) **Section Insulators:** All section insulators shall be so located that they are beyond the swept zone of the pantograph running on adjacent tracks and there is no unusual sag due to the same. Where section insulators are installed, the contact plane of the runners of the insulators as well as those of overhead equipment connected to it shall be parallel to the track plane.
- (l) **Anti-wind Clamp:** Anti-wind clamp shall be provided as per requirement.
- (m) **Connections:** All jumper connections including anti-theft jumpers shall be made properly with parallel clamps and finished neatly without any loose wire or cables. The length of flexible jumpers shall be adequate to avoid any disturbance to overhead equipment or restraint in the relative movement of conductors, but the jumpers should not be excessively long. The ends of jumpers shall be tinned, including the portion inside the first parallel clamp.
- (n) **Separation between OHE:** In erection, the physical separation required between overhead equipments and bracket assemblies on the same structure at insulated overlaps shall be ensured.
- (o) **Gradient of Contact Wire:** The gradient of the contact wire on either side of over line structures with restricted clearances shall be correctly adjusted and adequate clearance maintained between the over line structure and live equipment
- (p) **Adjustment at turnouts etc:** Careful adjustment of equipment shall be made on equipments at turn-outs cross over, diamond crossings, overlaps and special locations for position of bracket assemblies, stay arms and height of contact wire to ensure that pantographs of electric rolling stock on the run will not foul with any parts of the bracket assemblies and changeover of the contact wire is affected smoothly.
- (q) For wiring in large yards, the contractor shall prior to the execution of works, submit to the purchaser's Engineer for his approval the sequence of stringing of catenary and contact wires to arrange for proper crossing of wire. Endeavor will be made to arrange for traffic blocks to suit approved sequence of wiring.
- 4.11 Isolators:** Isolator switches shall normally be so mounted that when the switches are operated, the operator faces the directions of the motion of trains. The operating handles and contact blades shall be correctly aligned for easy operation.
- 4.12 Bus-bars and Connections:** Bus-bars and connections shall be neatly shaped and bent to give a good appearance.
- 4.13 Earthing:** The copper earth strips of MS flat used for earthing shall be bent and shaped neatly before connection to the structure or frame work of equipment. The connection of MS flat to steel work shall be made at a height not exceeding 15 cm from the datum level of a switching station. Before making earth connections the ends shall be cleaned copper strips. All junctions shall be properly secured to void loose contact. Portions of copper earth strips which remain

visible above the ground level should be painted with suitable paint to make them inconspicuous.

4.14 Tolerance: The permissible tolerance in dimensions for erection from those included in the appropriate drawings or schedules for different items are given below:

(a)Measurements: The span length shall not vary more than $\pm 50\text{mm}$ as measured along the appropriate rail.

The cumulative error of measurement of all spans in a kilometer shall be not more than 1000mm.

(b)Setting of Structures: The setting of structure shall be not less than that included in the appropriate cross- section drawings, especially those with the minimum setting of 2.36m. A tolerance of $\pm 20\text{mm}$ will be permitted subject to minimum specified value, if the structure is not located in between tracks.

(c)Height of Contact Wire: $\pm 20\text{mm}$ will be permitted to the height of contact wire at point of supports as shown in the relevant structures erection drawing, except under overline structures where no tolerance will be permitted.

(d) Stagger: Generally, $\pm 20\text{ mm}$ will be permitted for stagger.

(e) Dropper Lengths: $\pm 5\text{mm}$ will be permitted for dropper length.

(f) Dropper location: $\pm 100\text{mm}$ will be permitted for dropper locations.

4.15 Supplementary Instructions: Further working instructions will be issued if considered necessary by the purchaser, should be considered that the standard of work of the contractor requires to be improved.

PART - VIII
CHAPTER -V INSPECTION AND TESTING

- 5.1 Scope:** This chapter deals with the inspection and testing of completely erected overhead equipment, switching stations, booster transformer stations and LT supply transformer stations.
- 5.2 Overall Performance:** The overall performance of the overhead equipment should be such as would permit collection of current by electric rolling stock with full load at speeds, up to and including the maximum specified for the design of overhead equipment, smoothly, without mechanical shocks or prejudicial sparks and without undue heating in the case of other equipments.
- 5.3 Responsibility:** The general tests of overall performance stipulated below are only supplementary to other tests on structures, foundations, equipments, components and fittings as specified in Part -II,. Any testing and acceptance by the purchaser of overall performance shall be subject to the general terms and guarantee which shall continue to be valid as provided for in Part -I, Chapter- II.
- 5.4 Test on OHE:**
- (a) **General:** As soon as a section is ready for inspection and testing, the Contractor shall advise the Purchaser in writing. Tests to be carried out by the Purchaser will be done in the presence of the Contractor's representative and shall include the following apart from other reasonable tests that the purchaser may like to conduct with a view to ensure, himself of the soundness of the equipments and their erection in strict compliance with the specification.
 - (b) **Insulation:** The strength of the insulation and the di-electric strength of the entire equipment as installed shall be tested with a 2500V Megger.
 - (c) **Continuity:** The electrical continuity of the line and the existence of bad contacts, if any, will be tested with a Megger.
 - (d) **Electrical Independence:** The electrical independence of individual elementary sections in relation to one another shall also be tested with a merger.
 - (e) **Switches:** All isolators shall be tested for smooth and trouble free operation.
 - (f) **Tension Device:** All automatic tensioning devices installed shall be tested for sensitive functioning and adjustment.
 - (g) **Stagger and Height:** The stagger and height of contact wire over the entire section of completed overhead equipment and the clearance available shall be measured and the measurement shall be checked against approved drawings. These measurements shall be carried out at low speed with a vehicle or device to be arranged by the Purchaser, the movement of which will follow the track levels as closely as possible. Tolerances that will be permitted on the dimensions indicated in the approved drawings.
The actual position of the two contact wires, relative to each other, at overlaps and turnouts shall also be checked. Special attention shall be paid to a smooth movement of Pantographs over section insulators, particularly those which are likely to be frequently traversed.

- (h) **Mechanical Behavior:** The mechanical behavior of the entire equipment shall be tested at various speeds under normal pantographs pressure without energizing the overhead equipment.
- (i) **Energizing:** If the overhead equipment, after being subjected to the above tests in an unexercised condition, is found to be satisfactory, it will be energized with the normal 25 KV AC. supply.
- (j) **Power Collection:** Tests shall then be conducted to check if the power collection performance of the overhead equipment is satisfactory after ensuring that the contact wire is adequately clean. For this purpose, an observation car shall be attached next to the electric locomotive. The behavior of the overhead equipment will be watched at various speeds. Power collection shall be considered unsatisfactory if a long blue flash is observed, indicating that the contact between the contact wire and the pantograph is not continuous.

5.5 Inspection and Testing of Switching Stations etc.:

- (a) **Visual Inspection:** Visual inspection which shall include check for satisfactory workmanship shall cover all connections, painting, plastering, cleanliness of all insulators etc. and compliance with INDIAN ELECTRICITY RULES.
- (b) **Operation Test:** This test will be conducted on every individual item of equipment such as interrupters, isolators, relays etc. to ensure that the equipment as a whole is functioning properly and is mechanically sound, e.g. in the particular case of isolators the fixed contact and knife blade have been correctly aligned and operation does not cause undue strain on the equipment. The operation tests will be carried out with the high tension installation disconnection from the supply, but by actuating power devices where such are provided. Continuity test of high tension connections after setting such interrupter and isolator in their respective positions shall also be conducted as part of the operation test.
- (c) **Insulation:** The strength of insulation of the various items of equipment and of the entire installation as whole shall be tested with a 2500 V/500 V megger as required.
- (d) **Isolators:** All isolators will be tested for smooth and trouble free operation.

5.6 Earthing:

- (a) Earth wires will be checked for continuity and electrical isolation every 1000 m approx.
- (b) Clearances between earth wires and out-run wires of overhead equipment and signals shall be checked.
- (c) Earth resistance shall be measured separately for each earth electrode. In this case of interconnected earth electrodes, the net resistance of the interconnected electrodes shall also be measured.

5.7 Detailed Procedure for Tests: The detailed procedure for inspection and testing will be furnished to the Contractor. The contractor shall submit the result of tests in the Performa which will be furnished by the Purchaser, in quadruplicate.

CHAPTER-VI

WIRING PROCEDURE

6.1 Wiring Procedure: This section deals with the wiring procedure which may be adopted for erection of normal overhead equipment.

The following procedure for erection of overhead equipment has been formulated with a view to ensure that:

- (i) Bracket assemblies (brackets) and regulating equipment are correctly installed in their final position.
- (ii) The conductors are correctly tensioned, and
- (iii) The need for final adjustments of overhead equipment immediately before energization and commissioning, is virtually eliminated.

6.2 General: In the case of regulated equipment when the regulating equipments are in action, the tension in the conductors should remain constant, irrespective of variations in the ambient temperature. As the regulating equipments are brought into action a few days after the stringing of conductors the equipment is unregulated in the intervening period. Any of the following two procedures may be followed for tensioning and clamping of conductors of regulated overhead equipment during stringing operations, i.e., before the regulating equipments are brought into action.

- (i) The catenary in tension to 1200 Kgf, the stipulated tension at the mean temperature of 35° C, whatever may be the ambient temperature during the stringing operations. In this case, at the time of clamping the catenary to the bracket, the bracket should be placed at angular positions corresponding to temperature at the time of clamping and the proportionate to their distance from the anti-creep.
- (ii) The catenary is strained to a stringing tension corresponding to the ambient temperature for the equipment span of the tension length. In this case the brackets are placed in the mean position, i.e., at right angles to the track, when the catenary is clamped or the regulating equipment commissioned.

The advantage of the second method is that once the catenary is strung at the proper tension, there would be no necessity to adjust each bracket separately at the time of clamping the catenary or commissioning the regulating equipment. The erection work is, thus considerably simplified and the possibility of errors greatly reduced. This is also applicable to erection of unregulated overhead equipment.

6.3 Erection of Brackets: After the brackets are fabricated correctly in the contractor's depot, in accordance with the approved structure erection drawings, and provided with indelible labels or/painted marking indicating the intended locations for each bracket, they are removed to the site of work and erected on traction masts or supports. The brackets are swiveled to a position at right angles to the track and secured in that position by means of steel wires tied to similar brackets located on the opposite side of the track or other suitable means.

6.4 Anti-Creep: The anti-creep of the tension length is then installed in its final position.

- 6.5 Locking the Regulating Equipment:** In the case of regulated overhead equipment, the regulating equipments are erected on the terminal masts or structures and their movement locked by suitable means in the middle position, with the distance between the pulleys of the regulating equipment corresponding to 35° C.
- 6.6 Temporary Arrangement:** A pulley approximately 30 cm dia is attached to the overhead equipment end of the regulating equipment by means of temporary accommodation fittings at both ends of the tension length to be wired. Over this pulley a flexible stranded wire is passed over. At each of the wire two ending clamps, one for cat nary and one contact wire, are attached. The wire is also clipped in the middle by 'U' - clamp. The length of this temporary arrangement from the regulating equipment to the extremities of the stranded wire passing over the temporary pulley shall be a little longer than the distance between the regulating equipment and the ends of the cat nary and contact wires in their final position, to permit easy clamping of terminal fittings during the final termination of the wire.
- 6.7 Stringing Catenary:** The catenary is initially terminated in the ending clamp of the temporary arrangement at one end of the tension length. The catenary is thus paid out from the reel of the wiring train and run on pulley blocks hung from the suspension clamp eyes of brackets until the terminating point at the other end of the tension length is reached.
- 6.8 Tensioning of Catenary:** The catenary is strained up to the 'stringing tension' corresponding to the 'equivalent' span of the tension length and the ambient temperature at the time of stringing with the aid of a dynamometers, end terminated at the tension. For this purpose, the ambient temperature shall be deemed to be the temperature registered by a thermometer tied to a length of catenary wire 3 to 4 meters long, laid flat on the top platform, on one of the wagons of the wiring train. Subsequently the tension in the wire is checked by measurement a sag with the help of leveling lathe attached to suspension points and to the catenary at mid span by a ladder working party. The sag shall be measured in two spans, each preferably greater than 54 meters, and situated on either side of anti- creep approximately midway between the anti- creep and the termination points. The value of sag measured by this method should be within $\pm 5\%$ of the theoretical value for the corresponding stringing tension, and the temperature at the time of this measurement. In case of discrepancy is noted, the tension should be adjusted again and sag re-checked as above. After the sag is checked, the catenary is terminated at the ending fitting of the temporary arrangement at the terminating point.
In order to restrict the duration of traffic blocks to the minimum, in the first block, the catenary is strained to the stringing tension with the aid of dynamometers and the catenary is terminated. In a subsequent block, the sag is checked and the Tension readjusted with ladders, if necessary.
- 6.9 Clamping the Catenary:** The catenary is clamped on the brackets placed at right angles to the track.
- 6.10 Dropper:** Droppers are fitted to the catenary at the correct locations. At the contact wire ends these droppers May be provided with small pulleys or hooks to act as temporary supports when the contact wire is strung. Hooks made of scrap contact wire, suspended from the catenary wire, may also be used as temporary supports.
- 6.11 Stringing Contact Wire:** The contact wire is initially terminated in the contact wire ending clamp of the temporary arrangement at one end of the tension length. The wire is then paid out from the reel wagon of the wiring train and supported on the pulleys hung from droppers or on hooks until the terminating points at the either end of the tension, length is reached. In curves,

the contact wire shall be registered on pulleys located at traction masts or supports corresponding to the approximate final position of the wire. The axes of these pulleys should be more or less vertical.

- 6.12 Tensioning Of Contact Wire:** The contact wire is strained to a tension on approximately 1.2 times the tension corresponding to the ambient temperature and terminated in the ending clamp of the temporary arrangement.
- 6.13 Regulating Equipment in Action:** The regulating equipment is put into action with the counter weight at the correct height above rail level with distance between pulley or the regulating equipment corresponding to a temperature of 35°C. The regulating equipment is then released and brought into action. The 'U' clamp connecting the flexible stranded wire passing round the temporary pulley is also removed.
- 6.14 Final Adjustment:** The entire installation is left in this condition as long as it is possible, preferably for a period not less than 15 days. The temporary pulleys are removed and the conductors terminated in the permanent ending fittings, compensating plates, insulators and turnbuckles. The equalizer plate is kept vertical or at a vertical or at a slightly inclined position (by 2 or 3 cm the contact wire being shorter than the catenary) and the position of the regulating equipment is checked in relation to, the temperature at the time. The contact wire is clipped on to droppers (in the vertical position) and on the steady arms. Contact wire height at the bracket is adjusted as also the stagger and register arm clearance.
- 6.15 Concluding Remarks:** If the above method is followed with care, no further adjustment may be needed.

NOTE:

- (1) It should be ensured that sagging is done carefully and accurately. The adjustment of tension in the catenary after checking of sag, if required, would be easy if a temporary turnbuckle is inserted in the temporary termination.
- The use of leveling lathes is recommended for the following reasons:
- (i) The accuracy of adjustment is greater than that with dynamometers.
 - (ii) No traffic block is required for this operation.
 - (iii) It obviates the necessity of initial tensioning of the catenary accurately thus permitting a reduction in the period of traffic block required for the wiring train.
- (2) If feasible, without any hindrance to progress of works, the catenary may be maintained at stringing tension for a period of 48 hours before checking sag and clamping it to the brackets. This would ensure equalization of tension in the different spans. Before clamping the catenary to the brackets, the sag should however, be checked in two spans as indicated.
- (3) If it is difficult to obtain separate traffic block for stringing contact wire, the wire may be paid out at the same time, as the catenary, with the following precautions:
- (i) The contact wire is run and suspended from independent pulleys hooked on the brackets, separately from the catenary pulleys, to avoid twisting together of the two conductors.
 - (ii) The contact wire should not be suspended from the catenary until the later is clamped on the brackets.
 - (iii) The tension in the contact wire before termination should be about 1,200 Kgf. This will ensure that sag is not excessive.
 - (iv) The adjustment of tension and checking of sag of the catenary wire is carried out as if the contact wire had not been strung. Only after adjustment of tension and checking of sag is completed, the contact wire is transferred to the pulleys attached to the droppers or to hooks suspended from the catenary and the tension is adjusted.

- (4) When the contact wire is under tension creep takes place which results in an increase in the length of wire and, consequently, the droppers and the equalizer plates would become oblique. Though creep may continue for a long time, about a year, the bulk of it would occur during the days following stringing. If sufficient period of time is allowed, the contact wire may be clipped to the droppers and the equalizer plates, all in the vertical position and the necessity for any further adjustments before energization and commissioning of the OHE may be reduced to a great extent. If this precaution is not taken at the time of energization of the OHE, the droppers may not all be vertical and staff would have to be deputed for shifting the dropper clips with risk of damage to the contact wire.
- (5) Before the temporary arrangement is removed, a reference mark should be made on each conductor. After final termination of the conductors, it should be ensured that two marks are in the same relative longitudinal position as they were before the removal of the temporary arrangement

CHAPTER -VII

SPECIFICATION OF IMPORTED ITEMS

7.1 Scope- Specification covered in this chapter is for imported items to be used in this work. These specifications are indicative, details if required by the Contractor will be provided by DFCCIL. **Any specification of material not covered in this chapter will be provided by DFCCIL.**

Note: Most of the component, fittings & fixtures used in MD-IQB section are imported.

A List of Imported Item used in DFCCIL Ajmer unit is as under:

Sr. NO.	Item	Make	Country
1	Auto Fault Locator- All type of cards	Tsuda Electric	Japan
2	120sq.mm Jumper	Lamifil & Lafarga	Belgium & Spain
3	Modular Cantilever Assembly	Richard Bergner	Germany
4	10 sq.mm Dropper Complete	Richard Bergner	Germany
5	50 sq.mm Jumper	Lamifil	Belgium
6	Contact Wire - 150sq.mm	Sumitomo	Japan
7	Catenary Wire - 125sq.mm	Fujikura	China
8	End Fittings - 150sq.mm Contact Wire	Arruti	Spain
9	End Fittings - 125sq.mm Catenary Wire	Arruti	Spain
10	End Fittings - 288sq.mm Feeder Wire	Arruti	Spain
11	End Fittings - 181sq.mm Aerial Earth Wire	Arruti	Spain
12	Suspension Fittings – 288sq.mm Feeder Wire	Arruti	Spain
13	Suspension Fittings – 181sq.mm Aerial Earth Wire	Arruti	Spain
14	Double Suspension Clamp	Arruti	Spain
15	5 Pulley ATD	Arruti	Spain
16	Bent Steady Arm	Arruti	Spain
17	Copper Claded Earth Electrode	Duval Messien	China
18	LWSI – 125sq.mm MW & 150sq.mm CW	Galland	France
19	LWSI – 65sq.mm MW & 107sq.mm CW	Galland	France
20	PTFE Neutral Section	Arthur Flurry	Switzerland
21	Swiveling OHE	Furrer + Frey	Switzerland
22	Scott Transformer – Imported components	Toshiba	Japan
23	Auto Transformer - Imported components	Meidensha	Japan

CHAPTER -VIII

LIST OF STANDARD DRAWINGS AND SPECIFICATIONS OTHER THAN IMPORTED ITEMS

This Annexure contains reference to drawing number, charts, schedule specifications and may be referred for item other than imported items.

All references to drawings, charts, schedules, or specifications given in this annexure shall be taken to be the version available as on date of issue of LOA of such drawings, charts and schedule of specifications as issued by the Purchaser.

Sl No.	Brief Description	Drawing		Mod No.
		Series	Number	
1.	Extra allowance for setting of structures on curves (1676 mm Broad gauge)	ETI/OHE/G	00111 Sh-1	B
2.	Standard setting of structures in the vicinity of signals (broad gauge)	-do-	00112 C	C
3.	Typical design of bearing foundation	-do-	00131	-
4.	Deleted-			
5.	Typical design of cantilever mast	RE/33/G	00141 Sh.3	-
6.	Standard drilling schedule of OHE masts 9.5 m long RSJ and BFB respectively	ETI/OHE/G	00144 Sh.3	C
7.	Span and stagger chart for (conventional OHE, Cad-Cu Catenary & Cu Contact Wire) wind pressure 75,112.5 & 150 kgf /sq. meter	ETI/OHE/G	00202	-
8.	Employment schedule for Cantilever mast regulated OHE cat.65/Cu and Cont 107/Cu, WP 112.5 kgf/Sq m without Ex & without RC	ETI/OHE/G	00153 Sh.1	E
9.	Employment schedule for Cantilever mast regulated OHE cat.65/Cu and Cont 107/Cu, WP 112.5 kgf/sq m without Ex & without RC	ETI/OHE/G	00153 Sh.2	E
10.	Employment schedule for Cantilever mast regulated OHE cat.65/Cu and Cont 107/Cu, WP 112.5 kgf/sq m without Ex & with RC.	ETI/OHE/G	00153 Sh.3	E
11.	Employment schedule for Cantilever mast regulated OHE cat.65/Cu and Cont 107/Cu, WP 112.5 kgf/sq m without Ex & without RC.	ETI/OHE/G	00153 Sh.4	D
12.	Employment schedule for Cantilever mast regulated OHE cat.65/Cu and Cont 107/Cu, WP 112.5 kgf/sq m at 35 XC & 28 kgf/Sq m at 4xC without (E x & RC)	ETI/OHE/G	00154	D
13.	Employment schedule of bracket tubes regulated pressure Conventional OHE (Cd Cu catenary & Cu contact wire 1000 kgf tension Each).	ETI/OHE/G	00158 Sh.1 (for wind-pressure 75 kgf/sq m)	-

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		-do-	Sh.2(for wind pressure 112.5 Kgf/sq	
		-do-	Sh.3(for wind pressure 150	
14.	Dropper schedule for – un-insulated Overlap spans.	-do-	00169	A
15.	Dropper schedule for – insulated Overlap spans.	-do-	00170	A
16.	Dropper schedule for conventional regulated OHE. With Zero pressure (1400/1400).	-do-	00177	A
17.	Adjustment chart of Regulating equipment 3- pulley Type 3:1 ratio.	-do-	00195	A
18.	Schematic arrangement of regulated OHE	-do-	02101	A
19.	Schematic arrangement of un-insulated overlap(3&4 span overlaps)	-do-	02121 Sh.4	A
20.	Schematic arrangement of insulated overlap.	ETI/OHE/G	02131 Sh.3	A
21.	Termination arrangement of OHE with 3 pulley type regulating equipment (3:1 ratio).	ETI/OHE/G	04212	B
22.	General distribution of droppers.	ETI/OHE/G	00161	-
23.	Outline of Pantograph (Broad gauge and meter gauge)	RE/33/G	00181	A
24.	General formation of single track Embankments and cutting (Broad gauge)	RE/33/ G Sh.1	01101	A
25.	General formation of double track in Embankments and cutting (Broad gauge)	-do-	01102 Sh.1	A
26.	General formation of multiple tracks (1675mm. Gauge).	-do-	01103 Sh.1	A
27.	Standard anchor arrangement	-do-	01401	E
28.	Anchor arrangement with dwarf mast.	ETI/OHE/G	01402	B
29.	Schedule of anchor block for BG track	-do-	01403 Sh.1	D
30.	Double guy rod arrangement with anchor block for BG track..	-do-	01403 Sh.2	C
31.	Schedule of anchor block for BG track (Black cotton soil).	-do-	01403 Sh.3	B
32.	Standard guide tube arrangement on a mast and structures.	ETI/OHE/G	01505	-
33.	Trapezoidal counter weight arrangement on OHE structures.	-do-	01502	-
34.	Arrangement of 3 KV & 25 KV Pedestal insulator supports on OHE masts and portals.	-do-	01601	-
35.	Standard arrangement for mounting of number plate on OHE structure.	ETI/OHE/G	01701	A
36.	Schematic arrangement of regulated overhead equipment.	-do-	02101	A
37.	Typical arrangements of OHE on cantilever masts for double track section.	-do-	02102	-

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38.	Typical arrangement for fixing of bracket assembly on 9.5 m mast and structure to suit raising of tracks(in future)	-do-	02102 Sh.3	-
39.	Mast on platforms (1676mm. Gauge)	ETI/OHE/G	02104 Sh.2	A
40.	Details of bracket arrangement on tangent and Curved tracks	-do-	02106 Sh.1	A
41.	Details of bracket arrangement for OHE (High speed).	-do-	02106 Sh.3	C
42.	Single bracket assembly on structures and dropped arms.	RE/33/G	02107	D
43.	Box type cantilever arrangement.	ETI/OHE/G	02108	A
44.	Arrangement at anti-creep.	-do-	02111	A
45.	Standard cantilever arrangement for boom anchor anti-creep location.	-do-	02113	-
46.	Schematic arrangement of un-insulated over Lap (type-I) 3 & 4 span overlaps.	RE/33/G	02121 Sh.1	F
47.	Schematic arrangement of insulated overlap.	ETI/OHE/G	02131 Sh.1	
48.	General arrangement of regulated OHE at turnout (overlap & crossed type).	-do-	02141	C
49.	General arrangement of regulated OHE at cross over (overlap & crossed type).	-do-	02151	
50.	Arrangement of neutral section	-do-	02161 Sh.1 of	C
51.	Arrangement of neutral section assembly (PTFE Type) at SWS	-do-	02162	-
52.	Arrangement of short neutral section.	-do-	02161 Sh.2 of	-
53.	Schematic arrangement of unregulated overhead equipment.	-do-	03101	-
54.	Standard termination of OHE (Regulated & un-regulated)	ETI/OHE/G	03121	D
55.	General arrangement of unregulated OHE at turnout (overlap and crossed type).	-do-	03151	-
56.	General arrangement of unregulated OHE crossovers and diamond crossings (overlap and crossed type).	-do-	03152 Sh.1	-
57.	General arrangement of unregulated OHE crossovers and diamond crossings.	-do-	03152 Sh.2	-
58.	General arrangement of head span.	-do-	03301	-
59.	General arrangement of pull off.	-do-	03201	A
60.	In span jumper connection between cat nary & contact wire.	-do-	05101	-
61.	Continuity jumper connection at un-insulated overlap.	-do-	05102	C
62.	Arrangement of anti-theft jumper.	-do-	05107	A
63.	Connection at turnouts.	-do-	05103	B
64.	Potential equalizer connection at insulated overlap and neutral section.	-do-	05104	-
65.	Connections at diamond crossing.	-do-	05106	A

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66.	General arrangement of connections to OHE by copper cross feeder (150)	-do-	05121 Sh.1	C
67.	General arrangement of connections at switching station on double track section by copper cross feeder (150)	ETI/OHE/G	05122 Sh.1	C
68.	General arrangement of connections at switching station on multiple track section by copper cross feeder (150)	ETI/OHE/G	05123 Sh.1	C
69.	Suspension of 25kv feeder (spider) on OHE masts.	-do-	05143	B
70.	Termination of feeder, return conductor and return feeder (copper & aluminum).	RE/33/G	05145-1	
71.	Arrangement of suspension of double spider 25 KV feeder and return feeder between sub- station and feeding station.	-do-	05152	C
72.	Assembly of section insulators.		051181	C
73.	General arrangement of earth wire on OHE mast.	ETI/OHE/G	05201	A
74.	General arrangement of earth wire on OHE mast.	ETI/OHE/G	05201-1	-
75.	Arrangement of transverse bonds	ETI/OHE/G	05251	A
76.	Connection of return conductor to track.	-do-	05306	F
77.	Suspension arrangement of aluminum return conductor (spider) on traction structures.	-do-	05306	B
78.	Suspension of return conductor (spider) from boom of structures (with clevis type disc insulators).	-do-	05312	A
79.	Connections between OHE and aluminum return conductor at booster stations.	ETI/OHE/G	05413	B
80.	Mounting of 25kv isolators on OHE structures (General arrangement).	-do-	05513 Sh.1	A
81.	Details of small part steel work for supporting 25kv isolator on new T.C.C. boom.	-do-	05513 Sh.2	A
82.	Connection from isolator to OHE	-do-	05516	A
83.	Characteristics of conductors/bus bar for 25kv AC traction	-do-	05600	A
84.	Arrangement of mounting 25 KV/240,10 KVA LT supply transformer.	ETI/OHE/G	05522	-
85.	Employment schedule for cantilever mast regulated OHE Caty.65 Cu.Cont.107/CU (WP 75 kgf/sq. m.)	ETI/C	0702(OHE only)(Sh.1)	A
		ETI/C	(OHE+EW)(S h.2)	A
86.	Employment schedule for Tramway type regulated OHE (WP 75 kgf/sq. m.) without EW& without RC.	ETI/C	0704	A

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87.	Employment schedule for 8"x8"35 lbs BFB (9.5 M. long) (WP 112.5 kgf/sq. m. Cat.65/CU & Cont.107/Cu. cantilever mast regulated OHE Caty.65 Cu.Cont.107/CU.	ETI/C	0702(OHE only)(Sh.1)	A
88.	Employment Schedule for OHE mast overlap central location with 3.0 m implantation. Cat. 65/Cu & Cont. 107/Cu. WP 75 kgf/sq. m.	-do-	0709	A
89.	Employment Schedule for OHE mast overlap central location with 3.0 m implantation. Cat. 65/Cu & Cont. 107/Cu. WP 112.5 kgf/sq. m.	-do-	0710	A
90.	Employment Schedule for OHE mast (9.5m) overlap central location with 3.0 m implantation. Cat. 65/Cu & Cont. 107/Cu. WP 75 kgf/sq.m.	-do-	0711	A
91.	Employment Schedule for OHE mast overlap central location with 3.0 m implantation. Cat. 65/Cu & Cont. 107/Cu. WP 112.5 kgf/sq. m.	-do-	0712	A
92.	Employment Schedule for (9.5m) long 200x200x49.9 kgf.OHE mast overlap inter location with 3.0 m implantation. Cat. 65/Cu & Cont. 107/Cu. WP 75 kgf/sq. m.	-do-	0713	A
93.	Employment Schedule for 9.5 m. long 200x200x49.9 kg mast Cat. 65/Cu & Cont. 107/Cu. WP 112.5 kgf/sq. m.	-do-	0714	A
94.	Employment Schedule for OHE mast (9.5 m) overlap Anchor location with 3.0 m implantation. Cat. 65/Cu & Cont. 107/Cu. WP 75 kgf/sq. m.	-do-	0715	A
95.	Employment Schedule for OHE mast overlap anchor location with 3.0 m implantation. Cat. 65/Cu & Cont. 107/Cu. WP 112.5 kgf/sq. m.	-do-	0716	A
96.	Employment schedule 0721 for regulated OHE mast (9.5 m) wind pressure 75 kgf/sq. m. for composite OHE (1000&1000)kgf. tension.	ETI/C	0721 (OHE only)(Sh.1)	
		-do-	(OHE+EW)(Sh2	
		-do-	(OHE+RC) (Sh.3)	
		-do-	(OHE+EW+RC)(Sh.	
97.	Employment Schedule for regulated OHE mast (9.5m) wind pressure 75 kgf/sq. m. for composite OHE with extra setting distance Overlap Anchor location.	-do-	0722	-
98.	Employment Schedule for regulated OHE mast (9.5m) wind pressure 75 kgf/sq. m. for composite OHE with extra setting distance Overlap center location.	-do-	0723	-
99.	Employment Schedule for regulated OHE mast (9.5m) wind pressure 75 kgf/sq. m. for composite OHE with extra setting distance Anchor location.	-do-	0724	-

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100.	Employment Schedule for pre-stressed concrete mast (PC-42) 9.5 m long, for conventional OHE, Normal Location (WP 150,112.5 and 75 kgf/sq. m.) regulated OHE mast (9.5m) wind pressure 75 kgf/sq. m.	-do-	0725	-
101.	Standard portal (N.O,P,R,G & Double BFB type)	ETI/C	0064	
102.	Volume chart and equivalent chart of foundation.	-do-	0058 Sh.1	E
103.	-do- new pure gravity	-do-	0058 Sh.2A	C
104.	-do- Dry black cotton soil (NBC type)A	-do-	0058 Sh.3A	-
105.	-do- new pure gravity(500m,exposed)	-do-	0058 Sh.4	A
106.	-do- Dry black cotton soil (NBC type)2.5m depth.	-do-	0058 Sh.5	A
107.	-do- (for a direct load of 4000 Kg).	-do-	0058 Sh.6	A
108.	Special BFB portal for 5 tracks(general C arrangement)	ETI/C	0026 Sh.1	C
109.	Protective screen at foot over bridge and road over bridge.	-do-	008	F
110.	Chart for portal foundation	-do-	005/68	
111.	Muff for OHE structures	-do-	007/68	D
112.	Structure muff for sand core foundations.	-do-	0012/69	D
113.	9.5 m standard traction mast (fabricated 'K' series)	-do-	0018-2	D
114.	Remote control cubicle at switching station, foundation, RCC slab Building plan & steel door.	-do-	0067	B
115.	9.5 m standard traction mast (fabricated with bottom plates 'B' series)	ETI/C	0071	E
116.	Details of OHE foundation in soft rock (bearing capacity 45,000 Kg/sq. m.	-do-	0059	A
117.	Details of foundation for fencing upright	-do-	0032	A
118.	Employment schedule for switching and booster station main masts	ETI/C	0185	B
119.	Drilling schedule for S-1 mast	ETI/C	0030	F
120.	-do- S-2 mast	-do-	0031	D
121.	-do- S-3 mast (length 11.4m).	-do-	0180	C
122.	Drilling schedule for 8"x6"x35 lbs RSJ mast 8.0 m long for booster transformer station Type S-4	-do-	0036	E
123.	Drilling schedule for S-5 mast (11.4m long)	-do-	0042	E
124.	-do- S-6 mast (length 12.4m)	-do-	0181	C
125.	-do- S-7 -do-	-do-	0182	C
126.	-do- S-8 -do-	-do-	0182	C
127.	-do- S-9 mast (length 9.4m)	-do-	0184	C
128.	General arrangement & details of fencing panels & gate for switching station.	-do-	0186 Sh.1	E

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129.	Details of fencing upright and anti-climbing device for switching station	-do-	0186 Sh.2	E
130.	S-100 fabricated mast for mounting LT supply transformer and drop out fuse switch at switching station.	-do-	0043	B
131.	S-101 details of mast for supporting isolator inside switching station.	ETI/C	0044	A
132.	Details of anchor beam or SP, SSP, & FP.	-do-	0033	D
133.	Details of small part steel for switching station.	ETI/C	0034 Sh.1	K
134.	Details of bracing for switching & B.T. masts.	ETI/C	0034 Sh.2	B
135.	Details of small parts steel of out rigger for switching stations and booster transformer stations.		0037	C
136.	Details of small parts for booster transformer stations.	ETI/C	0040	E
137.	Details of pre-cast cable trench for switching station.	-do-	0038	E
138.	Standard 'R' type portal rod laced general arrangement.	-do-	0011/69 Sh.1	C
139.	Standard 'G' type portal special upright and end piece.	-do-	0056	C
140.	Short bored pile foundation for traction mast(permissible BM & volume)	-do-	0062	C
141.	Chart for portal foundations in dry black cotton soil safe bearing capacity 16500 Kg/sq.mm.	-do-	0063	B
142.	Dwarf mast foundation on wet & dry black cotton soil.	RE/ALD/OH E/SK/C	02	-
143.	Typical design of new pure gravity foundation.	ETI/SK/C	131	-
144.	Typical design of side gravity foundation	-do-	142	-
145.	Rock Anchor for BG Track.	ETI/SK/C	208	-
146.	Bracket fitting for PSC Masts capacity- 4.200 kg. m.	ETI/SK/C	214 Sh.1	E
147.	SPS details of earth wire clamp of PSC mast.	ETI/SK/C	214 Sh.1 of 2	-
148.	Special arrangement of OHE under over line structure.	ETI/OHE/SK	529	D
149.	Ear thing and bonding of PSC mast	ETI/OHE/SK	537 Sh.2 of 2	D
150.	Typical Ear thing arrangement in SPUN D PSC Mast with 18mm. dia rod.	-do-	537 Sh.2	B
151.	Arrangement of antitheft jumper at overlap.	ETI/OHE/SK	566	-
152.	Cat nary dropper assembly	ETI/OHE/P	1190	B
153.	Parallel clamp (20/20)	ETI/OHE/P	1550	E
154.	Standard guide tube assembly.	ETI/OHE/P	5060-2	C
155.	Standard anti-wind clamp.	-do-	2550-1/2	L
156.	Multiple cantilever cross arm assembly.	RE/33/P	3120	H
157.	Anchor fitting assembly on rolled sections.	ETI/OHE/P	3230	C
158.	Anchor fitting assembly on 'K' series, TCC masts and 'P' type portal upright.	-do-	3240	D
159.	Anchor assembly on 'N' and 'O' type portal upright.	-do-	3250	D

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160.	Structure bonds	-do-	7000	E
161.	Ear thing station	-do-	7020	B
162.	Longitudinal rail bond	-do-	7030	F
163.	Short super mast assembly.	ETI/C/P	8010	G
164.	Long super mast assembly	-do-	8020	C
165.	Bracket attachment assembly on portal upright (N,O,R,P,G & BFB Type).	-do-	8030	B
166.	Super mast assembly on portals.	-do-	8050	C
167.	Medium super mast assembly.	ETI/OHE/P	8060	C
168.	Compensating plate.	-do-	5191-1/2	D
169.	Suspension clamp.	RE/33/P	1160	J
170.	Double suspension clamp.	-do-	1170	K
171.	Double suspension lock plate.	-do-	1172	C
172.	Cat nary splice (65)	ETI/OHE/P	1090	-
173.	Typical location & schematic connection diagram for a three interrupter switching station.	ETI/PSI	003	E
174.	Typical general arrangement of a three interrupter switching station.	-do-	004	E
175.	Typical location plan & general arrangement for sectioning & paralleling station.	-do	005	E
176.	Typical location plan & arrangement for A feeding station	-do	006	E
177.	Typical general arrangement at a Booster transformer station (with 4 cross feeder) type- III.	-do	013	B
178.	Typical general arrangement of 280 KVA Booster transformer station (with 4 cross feeder type-III.	-do-	018	A
179.	Typical general arrangement at a booster transformer station. (Without cross feeder type- I.	-do-	011	C
180.	Typical number plate for auxiliary transformer. ETI/PSI/P	ETI/PSI/P	7525	-
181.	Typical fencing and anti-climbing arrangement at switching station.	ETI/PSI	104	E
182.	Typical ear thing layout of sub-sectioning and paralleling station.	-do-	201	B
183.	Typical ear thing layout of a sectioning and paralleling station.	-do-	202	B
184.	Typical ear thing layout of a feeding station.	-do-	203	B
185.	Ear thing details for interrupter LT supply transformer 25 KV lightning arrestors PT Type- I (S-100 masts, S-101 mast, fencing upright and n masts).	-do-	204	A
186.	Typical ear thing layout at a booster transformer stations (without cross feeder) for Type-I & II.	-do-	211-1	A

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187.	Typical cable run layout of a sub-sectioning & paralleling station.	-do-	301	C
188.	Typical cable run layout of a sectioning and paralleling station.	-do-	302	C
189.	Typical cable run layout of a feeding station.	-do-	303	B
190.	Typical ear thing layout at a booster transformer station (with 4 cross feeder for Type-III,IV and V.	ETI/PSI	212	B
191.	Typical drawing for a terminal board.	-do-	501	C
192.	36mm. Aluminum Bus terminal	ETI/PSI/P	6480	C
193.	-do- Splices.	-do-	6490	B
194.	-do- Tee connector.	-do-	6500	C
195.	36mm. Aluminum terminal.	-do-	6510	D
196.	36/15 Tap connector.	-do-	6520	B
197.	36mm. Aluminum flexible bus splice.	-do-	6550	B
198.	36mm. Alu. Bus splice cum tee connector.	-do-	6560	B
199.	Typical number plate for interrupter and double pole isolator.	-do-	7520	B
200.	Typical number plate for potential transformer type.	-do-	7521	B
201.	Typical number plate for booster transformer.	-do-	7522	B
202.	Standard plan Remote Control cubicle at switching station.	RECivil /BS- 11/95		
203.	Typical details of pressed steel door window and ventilator.	RE/Civil/S- 115/95	R1	-
204.	Bolted base connection for portals located drains	ETI/ C	0010	C
205.	Details of base plate for mast on drains in station yards.	-do-	6002/68	A

LIST OF STANDARD DRAWINGS FOR COMPOSITE OHE (REGULATED):

1.	Employment schedule for OHE masts unregulated OHE without RC & EW (WP=150 kgf/m ² at 10 deg.C).	ETI/OHE/G	00150	D
2.	Employment schedule of bracket tube regulated conventional OHE (Cd-Cu catenary and Cu-contact wire (1000 kgs tension each)) for wind pressure 150 kgf/m ² at 10 deg.C.	ETI/OHE/G	00158 Sh.3	-
3.	Employment schedule of bracket tubes unregulated conventional OHE (Cd-Cu catenary and Cu-contact wire)	ETI/OHE/G	00159 Sheet-3	-
4.	Schematic arrangement of un-insulated overlap (Al. Alloy) catenary and copper contact wire.	ETI/OHE/G	02121 Sh.3	-
5.	Schematic arrangement of insulated overlap for (Al. Alloy) catenary & Cu Contact wire.	ETI/OHE/G	02131 Sh.2	-
6.	General arrangement of regulated composite OHE at turnouts (overlap and crossed type)	ETI/OHE/G	02141 Sh.2	-
7.	Standard termination of Regulated composite OHE.	-do-	03121 Sh.2	B
8.	In span jumper connection between Alu. Alloy cat nary & copper contact wire.	-do-	05101 Sh.2	B
9.	Continuity jumper connection at un-insulated overlap(Al. Alloy cat nary and copper contact wire).	-do-	05102 Sh.2	-
10.	Connections at turnouts for composite OHE.	-do-	05103 Sh.2	-
11.	Potential equalizer connection at insulated overlap& neutral section (Al. Alloy cat nary & copper contact wire).	-do-	05104 Sh.2	-
12.	Connection at diamond crossing for composite OHE.	-do-	05106 Sh.2	C
13.	General arrangement of connection to composite OHE by cross feeder(SPIDER)	-do-	05124 Sh.2	C
14.	General arrangement of connection at switching station on double track section for composite OHE.	-do-	05125 Sh.2	C
15.	General arrangement of connection at switching station on multiple track sec.(with composite OHE and spider cross feeder).	-do-	05126 Sh.2	C
16.	Assembly of section insulator (with Al. Alloy cat nary and copper contact wire).	-do-	05181 Sh.2	
17.	Std. Arrangement of supporting cantilevers on Boom of portals and TTC (to avoid Bird's nesting).	ETI/C	0076	C
18.	Employment schedule for OHE mast (9.5 M) wind pressure 112.5 kg/f sq. m. for composite OHE (1000+1000) Kgf Tension.			
19.	OHE only.	ETI/C/0717	Sh.1	-

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20.	-do- OHE + EW		Sh.2	-
21.	-do- OHE + RC	ETI/C/0717	Sh.3	-
22.	-do- OHE+EW+RC		Sh.4	-
23.	Employment schedule for OHE Mast (9.5 M) wind pressure 112.5 kgf/sq.m. with 3.0 m implantation composite OHE (1000+1000) KGF Tension.			
24.	-do- Overlap anchor location.	ETI/C/0718		-
25.	-do- Overlap Central location	ETI/C/0719		-
26.	-do- Overlap inter location	ETI/C/0720		-
27.	Employment schedule for OHE mast (9.5m) for wind pressure 150 kgf/m2 copper OHE	ETI/C	0726 Sheet-1	-
28.	Employment schedule for OHE mast (9.5m) for wind pressure 150 kgf/m2 copper OHE & EW.	ETI/C	0726 Sheet-2	-
29.	Employment schedule for OHE mast (9.5m) for wind pressure 150 kgf/m2 copper OHE & RC.	ETI/C	0726 Sheet-3	-
30.	Employment schedule for OHE mast (9.5m) for wind pressure 150 kgf/m2 copper OHE, RC & EW.	ETI/C	0726 Sheet-4	-
31.	Employment schedule for OHE mast (9.5m) for wind pressure 150 kgf/m2 copper OHE with higher implantation overlap anchor location.	-do-	0727	-
32.	Employment schedule for OHE mast (9.5m) for wind pressure 150 kgf/m2 copper OHE with higher implantation overlap central location.	-do-	0728	-
33.	Employment schedule for OHE mast (9.5m) for wind pressure 150 kgf/m2 copper OHE with higher implantation overlap inter location.	-do-	0729	-
34.	Employment schedule for Tramway type regulated OHE WP 150 kgf/m2 without RC & EW.	-do-	0706	A
35.	Aluminum Alloy cat nary suspension clamp (MCI)	ETI/OHE /S K	176	D
36.	Double suspension lock body (Galvanized MCI)	-do-	205	B
37.	Parallel grove clamp (14/9).	-do-	123	D
38.	Parallel grove clamp (18/14)	-do-	231	D
39.	Cat nary dropper clip assembly with bimetallic washer.	-do-	333	D
40.	Envelope type end fitting assembly for all Al. Alloy standard Cat. Wire (size 19/2.79mm).	-do-	436	B
41.	Crimp type repair sleeve for AAA standard cat nary wire.	-do-	285	C

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42.	Catenary splice (cone type) AL. Alloy cat nary.	-do-	134	D
43.	Aluminum cat nary suspension clamp assembly (MCI)	-do-	468	A
44.	Double suspension clamp assembly (MCI for AL. Alloy. Cat nary).	-do-	469	A
45.	Span and stagger chart for composite OHE	-do-	375	A
46.	Double suspension clamp body for AL. Alloy. Cat nary.	-do-	1171-1	A

LIST OF STANDARD SPECIFICATIONS:

S. NO.	TITLE OF SPECIFICATION	SPECIFICATION NO.
1	2	3
1.	Annealed standard copper conductor for jumper wire.	ETI/OHE/3(2/94) with A&C slip No.1 of 4/95.
2.	Copper bus bar	RE/30/OHE/5(11/60)
3.	Structural steel tubes.	ETI/OHE/11(5/89)
4.	Hot dip zinc galvanization of steel mast (Rolled and Fabricated) tube and fittings used on 25 kV AC OHE.	ETI/OHE/13(4/84) with A&C slip No.1 of 5/86, 2 of 4/90 and 3 of 4/90.
5.	Stainless steel wire rope.	TI/SPC/OHE/WR/1060(06/06) with A&C slip No. 2 of 4/90
6.	Solid core porcelain insulators for 25 kV, 50 Hz Single phase overhead traction lines.	TI/SPC/OHE/INS/0070(04/07) with A & C Slip No. 1 & 2
7.	25 KV single and double pole isolators.	ETI/OHE/16(1/94) with A & C slip No. 1 & 2 (03/04)
8.	Steel Fasteners and Stainless Steel Fasteners for 25 kV AC Traction Steel	TI/SPC/OHE/FASTENERS/0120 with A
9.	Aluminum alloy section and tubes.	ETI/OHE/21(9/74).
10.	Principles for OHE Layout Plans and Sectioning Diagrams for 25 kV AC	ETI/OHE/53 (6/88) with A & C slip no. 5 (11/06)
11.	Section insulators assembly.	TI/SPC/OHE/LWTSI/0060 (Rev. 1) with A & C slip no. 1 (07/16)
12.	Enameled steel plates	ETI/OHE/33(08/85).
13.	Retro-reflective Structure Number Plates	ETI/OHE/33A(12/97) with A & C Slip No. 1 to 8 (11/12)
14.	Galvanized steel wire Rope	ETI/OHE/36(12/73) with A&C slip No.1 of (5/98).
15.	Regulating equipment (a) winch type (5:1)	ETI/OHE/48(7/84), with A&C slip No.3 (12/04).
	(b) 3 pulley type (3:1)	TI/SPC/OHE/ATD/0060 Rev. 1 with A&C slip No. 1
16.	Fittings for 25 kV, 50 HZ, AC Overhead Traction equipment.	ETI/SPC/OHE/FITTINGS/0130 with
17.	Cadmium copper conductors for overhead Rly Traction	ETI/OHE/50(6/97) with A&C slip No. 1 to 5 (09/16)
18.	All Alu. Alloy, Stranded catenary wire 19/2.79 mm.	ETI/OHE/54 (2/85) with A&C slip No.2 (10/92)
19.	Bimetallic (AL/Cu) strip for 25 KV traction	ETI/OHE/55(4/90)
20.	Short neutral section assembly (phase Break).	TISPC/OHESNS/0000 (Rev. 1) with
21.	Code for bonding and earthing for 25 kV, single phase, 50 Hz, AC Traction system.	ETI/OHE/71(11/90) with A&C slip No.2 (3/93)
22.	Insulated cadmium copper catenary 19/2.10 mm dia for provision under overline	TI/SPC/OHE/INSCAT/0000 with A & C slip No. 1 & 2 (09/16).

NOTE:

- 1) Above specifications can be purchased from RDSO/office of CAO/CORE/ALD on payment of their cost.
- 2) For structural steel (standard quantity) please refer IS: 2062 – 1992.

Any amendment in specification and drawings subsequent to LOA, if required to be carried out shall need approval of DFCCIL duly considering the financial implication of the same either in upward or downward direction

CHAPTER -IX

Detailed Scope of Work: -

The broad scope of work under this tender is as under : -

Schedule: 1 OHE WORK

Item no.1 : Preparation of design and drawing for overhead equipment and verification of purchaser Modification plan.

The price shall cover preparation of overhead equipment pegging plans indicating location of structures in stages and preparation of all drawings and designs required to be finalized by the contractor. The price shall include the following.

- i) Making minor modification with the approval of the purchaser to the layout of the structures and overhead equipment, if necessary, and submission of overhead equipment layout plans, including stagger, location of cut in insulator etc. preparation of bonding plan.
- ii) Preparation of cross section drawings & structure erection drawings for each structure location.
- iii) Choice of type and size of foundations to suit soil and loading conditions, except for the ones which are considered as —works under other Agencies.
- iv) Preparation of long section drawings of overhead equipments where such drawings are required including detailed study of over line structures such as foot over bridges, road over bridges etc. for maintaining the specified height of contact wire and requisite clearances.
- v) Preparation of other designs and drawings including drawings of small parts steel work, other than those for which RDSO standard drawings are available. The contractor get approved the OHE design from Railway administration.
- vi) Supply of requisite number of copies of all drawings, incl. completion drawings. This item also includes as erected drawing (In original tracing film with four ammonia paper prints) after final execution of work.

NOTES FOR MEASUREMENTS:

For the purpose of payment against this item, the length of track shall be measured as under:

1. General: By the difference in the chainages of the length under consideration, as incorporated in the layout plans
2. Turnouts: The track taking off shall be deemed as starting from the toe of the switch of the turnout.
3. Cross-over: The length of track shall be taken as the difference in the chainages of the toes of switches of the turnouts constituting the crossover.
4. Diamond crossing with or without slips:
The two tracks crossing each other shall be measured independently as per note 1 above as though there were no crossing. No extra payment shall be provided for slip points.
5. Dead ends and tops of loops:
The lengths for payment under this item shall be upto the chainage of anchor mast of the terminating OHE.
6. Feeders and return feeders from grid sub-station to feeding station:
This item will also be applicable independently in case of feeders / return feeders / conductors from grid sub-station to over- head equipment feeding stations or in the case of feeders / conductors running on independent structures (not supporting OHE) along or across tracks.
In such a case the length of line to be considered for purpose of item 1 shall be measured by the distance between the center of gantries of the grid sub-station and feeding station, in case of feeder / return feeders / conductors lines from grid sub- station, or by the distance between the center line of the two structures to which the feeders / return feeders / conductors are anchored in case of feeders running along the track if such feeders / return feeders/conductors

are running completely on independent structures or by the distance between the center of the two structures supporting the OHE on either side of the first and last independent structure in case of feeders / return feeders / conductors running along the track supporting of OHE.

Item no.2: Excavation for Structure- Excavation in all types of soils and soft/ hard rock, concrete/masonry drains/walls.

The price shall cover excavation, temporary arrangements for excavation as per drawings in all types of soils and soft/hard rock, concrete/masonry drains/walls.

Item no.3: Providing and laying of concrete for foundation and plinth in all types of soils using M-15 grade concrete for main foundation and M-20 grade concrete for grouting and mugging including nominal reinforcement wherever.

The price shall cover supply and handling of all materials and accessories, the cost of cement. The price shall also cover temporary arrangements for excavation in other than hard soil and rock, casting concrete foundation including frame work where necessary, tamping of concrete, grouting masts and finishing the top of concrete foundation or anchor blocks. The price also includes dismantling of all connected temporary arrangements, back filling with earth and compacting the same to the required height and width as per drawing to ensure safety of foundation, confining the exposed height of foundation block to within 10 cm and removal of spoil.

The top of foundations shall be given a slope of 1 to 50 towards the edge to ensure that water does not collect at the base of the structure of the same work of the equipment. The aggregate should conform to Indian standard specification IS- 383-1979 with latest version for coarse and fine aggregate.

The Concrete to be used in the OHE Foundation work shall be Ready-mixed Concrete. Ready mixed Concrete shall be supplied having the quality and in the quantity in accordance with the requirements agreed with the purchaser or his Engineer. Notwithstanding this, the concrete supplied shall generally comply with the requirements of IS: 456"

Item no.04 : Providing and fixing Centering and Shuttering including oil for casting concrete including frame work wherever necessary.

The price shall cover providing and fixing Centering and Shuttering including oil for casting concrete including frame work wherever necessary.

Item no.05 & 6: Supply & erection of rolled or fabricated and galvanized Traction Mast, TTC, Portals, AT Mast, Dwarf Mast etc.

The Price shall cover supply and erection of fabricated galvanized OHE structure with necessary components. The prices shall also cover the cost of erection, alignment and setting before grouting of individual traction masts and main masts of switching station, dwarf Masts, Portals, TTC and masts for LT supply transformer stations whether rolled or fabricated including those for head spans. These structures will be grouted in already cast foundation. The contractor shall carry out the erection in presence of authorized DFCCIL representative.

Note: For the purpose of payment, the weights of individual traction mast and masts of head span shall be determined for each type on the basis of the payable weights per meters length shown as per DFCCIL approved drawings for standard type. Standard weight schedule shall be followed for calculation of weight of all type of Masts & portals etc. For special types, the payable weight per meter length will be indicated by the purchaser at the time of approval of designs.

Item no. 7 & 8 : Supply & Erection of Fabricated and Galvanized SPS other than Mast.

The Price shall cover supply & erection of SPS other than mast under power block. The price shall include supply & erection of small part steel works etc. The quantity of steel & galvanization should confirm to IS-2062 grade ASK (1984 or latest and that of zinc (with 99.95% purity) and IS-808 or latest for profile of steel. The galvanization should be hot dipped as per RDSO specification ETI/OHE/13 (4/84) A&C or latest slip No.03 with minimum average weight of zinc per square meter. Material shall be procured only from RDSO/ CORE approved supplier.

Note: The price for this item shall also include the cost of stenciling of location number on masts / portal uprights in the manner as directed by the purchaser. The price shall also include the straightening of masts / portal uprights bent during transit and cutting of masts / portal uprights to suit the site conditions. It is clarified that the term transit also covers transit from manufacturer / supplier premises to DFCCIL depot / contractor's depot or subsequent handling.

Item no. 09 & 10 Supply & erection of Single Bracket assembly: The price shall cover on a flat rate basis any bracket assembly on a traction mast or support or drop arm, and shall include those on high / low level platform, in the vicinity of turnouts, over bridges or over-laps and at locations with reduced encumbrance or terminating wires. The price shall include the cost of supply of components including galvanized steel tube, but excluding solid core / composite insulators, dropper wires and small parts steel work complete with bolts and nuts etc., if any. The price shall also cover the erection of all components including dropper wires and solid core/ composite insulators but excluding small parts steel work if any. However, this does not include the anti-creep arrangement at masts/structures.

Item no. 11 & 12: Supply & Erection of Stay and Bracket Tube composite Insulator set CD-1600 mm

The Price shall cover supply and erection of stay & bracket tube insulators for single bracket assembly (long creep age CD-1600 mm) as per RDSO/DFCCIL latest Specification and drawings.

Item no. 13 & 14: Supply & Erection of OHE with complete fitting without contact and catenary wire

The price shall cover supply of all components including dropper clips, parallel clamps for Jumpering and splicing (where there use is approved) but excluding Contact wire, Catenary wire, dropper wire, jumper wire, terminating wires and SPS work completes with bolts and nuts etc. for attachment of number plates to mast / structure, if any. The price shall cover erection of all components and wires and conductors including Contact wire, Catenary wire, dropper, jumpers and terminating wires, if any but excluding small part steel work, if any.

Item no. 15 & 16: Supply & Erection of Copper jumper wire

The price shall cover on a flat rate basis, the supply & erection of all components and fittings required for providing a flexible copper jumper connection, including parallel clamps, bi-metallic and aluminum copper ALCU strips, wherever required, and terminal or tee clamps at either end.

Price shall also cover the supply & erection of the complete jumper assembly including jumper wire. The price shall be applicable for any jumper connections in any combination

between feeders, LT transformers, drop-out switch, lightening arrestors for overhead equipment's, isolators for overhead equipment and outgoing bus bar for switching stations and booster stations. Continuity jumper at boom anchor anti-creep will be payable under this item. Anti-theft jumper for connecting out-of-run OHE with the in- run OHE at insulated/un-insulated overlap locations and also anti-creep locations at polluted zone whenever considered necessary will be payable under this item.

The supply of all components and fittings (excluding the Catenary wire) and the erection of all the components and fittings including the Catenary wire for providing double Catenary / contact wire in place of Catenary under over line structures respectively will also be payable under this item, treating the double Catenary as one jumper irrespective of its length including the Catenary / contact wire ending clamp.

Item no. 17 & 18 Supply & Erection of Guy Rod Assembly

The Price shall cover supply & erection commissioning of complete galvanized guy rod assembly with loop including all parts required for its commissioning including anchor fitting of mast. The price shall include supply & erection of guy rod assembly of length 7.50 m 9.70 m, 9.50 m or 12.80 m as per requirement of site. It also consists of anchor guy rod fitting "U" bolts GI nuts & bolts with anchor bolts guy rod strap etc. Supply erection & commissioning of anchor fitting would be done as per RDSO drawing. Prices indicated against all other items should be exclusive of the price for supply of erection of guy rod, if any which will be paid for under this item.

Note:

1. In case the contractor desires to adopt a different design for guy rod assembly, the same shall be indicated by him in the tender and the components required should be clearly listed under this item as deviation.
2. Supply & erection of guy rod assembly at anti-creep portals will also be paid for under this item.

Item no. 19 & 20: Supply & Erection of 09 ton Insulators (CD-1600)

The price shall cover the supply and erection of 9-Tonne insulators (long creepage CD-1600 mm) including all accessories as per RDSO Specification/ DFCCIL drawings required for OHE / feeder / anti-creep wire termination and for providing in section insulators and insulated overlaps etc.

Item no. 21 & 22: Supply of 3 Pulley ATD with Counter Weight Assembly.

The price shall cover supply and erection of 3-pulley type ATD with counter weight (3:1 ratio) pulley type modified with balance weight as per RDSO Drg. no. or latest for High rise OHE including 9 ton adjuster with double strap assembly and normal/anti-theft guide tube assembly, the supply of regulating equipment and stainless steel wire rope (of various length as required) required for the regulating equipment and small part steel work, if any. The price shall also cover adjustment of the entire regulating equipment.

Item no. 23 & 24: Supply of 5 Pulleys ATD with Counter Weight Assembly.

The price shall cover supply and erection of 5-pulley type ATD (Imported- Arruti make) with counter weight (5:1 ratio) pulley type modified with balance weight as per DFCCIL drawing or latest for High Rise OHE including 9 ton adjuster with double strap assembly and normal/anti-theft guide tube assembly, the supply of regulating equipment and stainless steel wire rope (of various length as required) required for the regulating equipment and small part steel work, if any. The price shall also cover adjustment of the entire regulating equipment.

Item no. 25 & 26 :Supply & erection of Retro reflective type Number plate as per DFCCIL requirement including all fixing arrangement.

The Price shall cover supply & erection of retro-reflective number plates as per DFCCIL drawing. The price shall include supply & erection of number plates with G.I. clamps fixed on the mast.

The price shall cover supply and erection of retro-reflective no. plates as per locations list provided by the purchaser. Price shall cover mounting of all components. The price shall also include mounting arrangement on OHE structures if required for mounting of number plates in structures. The price shall also include all nuts & bolts required for fixing the plates. All nuts & bolts should be replaced by new one and old nuts & bolts should be handed over to concerned Depot In-charge.

Item no. 27 & 28 : Supply & Erection of danger/Caution Board, unwired turn out board, Engine Stop Board, Sigma Board, Neutral section Board and other Boards per DFCCIL requirement.

The price shall cover price for supply of danger/Caution Board, unwired turn out board, Engine Stop Board, Sigma Board, Neutral section Board and other Boards including fixing material (plastic/wooden gitti & G.I. screw etc.) Price shall cover the price for erection of material as per instructions of supervisor in-charge. Price shall be inclusive of Sales tax, Excise duty, Freight etc. Boards shall require to be installed on a steel structure / Rail post / wall of a building therefore mode of erection shall be as per requirement of the site.

Item no. 29 & 30: Supply & Erection of Single earth electrode with earth Pit complete.

The price shall cover supply and erection of an earth electrode in all types of soil except hard soil/soft rock as per DFCCIL Drawings. The price shall cover supply and erection of an earthing station with a single pipe 4 meter long embedded into the ground by driving or otherwise complete with protective concrete box and lugs suitable for directly connecting two mild steel flats of minimum size 50 mm x 6 mm.

The price shall cover the provision of a protective concrete box with removable cover as shown in the drawing. The price shall include the testing of earth value and painting the particulars on the box.

Item no. 31 & 32: Supply and Erection of structure Bond including Rail clamp.

The price shall cover supply & erection of all materials including mild steel flat of size 50x6mm as per site requirement confirming to IS:1731 or latest including fasteners required to provide a structure bond connecting a traction mast or structures to the nearest rail or earth electrode. The price shall include Rail clamp, painting of the bond with two coats of red oxide as primer and two coats of black bituminous paints and erection of all materials including the bond. This would cover connection or earthing terminals of equipments like LT transformers with structures and then to rails as per site requirement and confirming to relevant drawings.

Item no. 33: Supply of Catenary wire of 65/125 sq. mm as per DFCCIL requirement.

The price shall cover the cost of supply of stranded copper catenary wire for overhead equipment. The cost of erection of catenary wire shall be payable separately. Reconciliation of material should be done as per actual use taking into account anchor and overlap and weight density of wire as specified in DFCCIL specification of Catenary wire. The measurement will be from centre line of anchoring mast. The unused cut pieces generated during erection shall not be measured and cost of such cut pieces shall be deemed to be included in the rates.

Item no. 34: Supply of Contact Wire of 107 /150 sq. mm as per DFCCIL requirement

The price shall cover the cost of supply of hard drawn grooved continuous cast copper contact wire 107/150 sq. mm for overhead equipment. The cost of erection of contact wire shall be payable separately. Reconciliation of material should be done as per actual use taking into account anchor and overlap and weight density of wire as specified in DFCCIL specification of Contact wire. The measurement will be from centre line of anchoring mast. The unused cut pieces generated during erection shall not be measured and cost of such cut pieces shall be deemed to be included in the rates.

Item no. 35 & 36: Supply and Erection of 150 sq. mm Contact wire Splice

The price shall cover the cost of supply and Erection of 150 sq. mm Contact wire Splice as per DFCCIL Drawings.

Item no. 37 & 38: Supply and Erection of 125 sq. mm Catenary wire Splice

The price shall cover the cost of supply and Erection of 125 sq. mm Catenary wire Splice as per DFCCIL Drawings.

Item no. 39 & 40: Supply and Erection of PTFE Short Neutral section Assembly.

The price shall cover supply, erection and adjustment of PTFE type short neutral sections assembly as per latest RDSO/DFCCIL specification. The price shall also cover supply and erection of, all fittings for contact and catenary wire as necessary including supply of required dropper wire.

Item no. 41: Dismantling of Bracket Assembly.

The price shall cover on a flat rate basis for dismantling of any bracket assembly on a traction mast or support or drop arm, and shall include those on high / low level platform, in the vicinity of turnouts, over bridges or overlaps and at locations with reduced encumbrance or terminating wires. The price shall cover dismantling of all components including dropper wires, but excluding small parts steel work, if any. However, this does not include the anti-creep arrangement at masts / structures. The price shall cover transportation, loading & leading of such released equipments & components to concerned TRD depots.

Item no. 42: Cutting and Removal of Existing structure.

The price shall cover cost of cutting of free masts using oxy-acetylene gas at various locations, their shifting from site and stacking at purchaser's concerning store depot in DFCCIL Ajmer Unit. The price shall also cover cutting of dismantled / reclaimed masts into sacrificing masts. The price shall also cover loading, unloading & transportation of cut mast from site to purchaser's store depot.

Item no. 43: Reclamation of OHE Mast/structures

The prices shall cover cost of dismantling of traction mast from foundation as full length without cutting suitable for its reuse. It also include chipping of concrete foundation from the grouted length of mast. The price shall also cover loading, leading and transportation of OHE mast from site to concerned TRD depot.

Item no. 44: Dismantling of Guy Rod assembly:

The price shall include dismantling of guy rod assembly including all accessories and loading / leading of transportation of released material from site of work to the concerned TRD depot.

Item no.45: Dismantling of Fabricated steel other than Mast:

The prices shall cover cost of dismantling of fabricated steel components from masts as full length without cutting suitably for its reuse from masts. It also include chipping of concrete foundation from the grouted length of structure. It includes removal of all the attached accessories on masts. The price shall also cover loading, leading and transportation of OHE of fabricated steel from site to concerned TRD depot

Item no. 46: Dismantling of ATD assembly and Termination

The price shall cover for dismantling of ATD / OHE termination from one location. The ATD / OHE termination so released shall not be damaged during dismantling and shall be suitable for its re-use at any new OHE locations. All the released material/components shall be deposited in complete and serviceable condition in the concerned TRD depot. The price shall cover transportation, loading & leading of such released equipments & components to the concerned TRD depots.

Item no. 47: Dismantling of 09 Ton Insulators

The price shall cover cost of dismantling of a 9-Tonne insulator and associated small parts steel work.

NOTES FOR ITEM No. 47:

All claims under this item have to be supported by the following certificate to be furnished by the Contractor on the connected bill.

- (a) The modifications are not on account of non-compliance of specifications approved and instructions given by the DFCCIL for execution of works.
- (b) The quantities of work involved for modification have been finalized jointly with the DFCCIL's Engineers before taking the work in hand.
- (c) The dismantled material shall be handed over to the Purchaser's representative.

Item no. 48: Supply of Dropper wire for fabrication of droppers

The prices under this item shall cover only supply of 5mm dia solid round hard drawn copper wire as per IS No: 282-1982 and as per RDSO spec. /Drg. No: ETI/OHE/P/1193 or latest. The price shall also cover supply of any other type of dropper, which is not covered in any item during execution of work.

Item no. 49: Transfer of equipment from one mast or support to another

The price shall cover transfer of overhead equipment to a bracket assembly on a new mast or support and dismantling of the erected bracket assembly from the old mast or support and consequent adjustment to overhead equipment required such as re-spacing of droppers (including cost of dropper wire), leveling etc.

Item no. 50: Handling Loading unloading and /transportation of DFC supply /released OHE material such as Mast, Wires, Fittings SPS etc. From IMD/ISMD to Site & released material from site to IMD/ISMD

Price shall include the handling /loading, unloading and transportation of DFC Supply/Released OHE/PSI/GPS/Material such as Mast, Bus-Bar, AT, Brackets. Fittings, contact / catenary wire from IMD/ISMD to site & release material from site to IMD/ISMD.

Schedule 2: 100 % Extra on erection Rate for work done under Power Block

(Item no. 1 to 18):

The separate erection rate has been mentioned for execution of work under Power Block (for the period below 04 hrs) and Extra rate on Manual Erection. The common explanatory note for applicability of extra on erection rate under Power Block and Extra rate on Manual Erection is mentioned below.

1. (a) COMMON EXPLANATORY NOTE FOR EXTRA ERECTION RATE FOR EXECUTION OF WORK UNDER POWER BLOCK (FOR THE PERIOD LESS THAN 04 HRS) :

In case the erection/dismantling portion of the work is carried out during power block (only for the power block of less than 04 Hrs in a day), the extra erection rate will be paid over and above the normal accepted erection of relevant item on certification by engineer. This shall be paid only for erection/dismantling of equipment in the vicinity of energized overhead equipment and feeders or erection of equipment with joints equipment already energized or on energized equipment which calls for a power block (shut off of traction power). The price payable under this item shall be extra over the normal erection rates of the item referred against the item, provided such work is not called for on account of non- compliance with specifications, approved drawings and instructions given by the Employer from time to time. The extra erection rate under this item will not be payable if power block is given for a total duration of 04 hour or more in a day. Where the prices under this item are applicable, the contractor shall finalize the quantities of various items of work to be done under a power block, jointly with the Employer's Engineer prior to taking the work in hand.

(b) COMMON EXPLANATORY NOTE FOR EXTRA ON MANUAL ERECTION FOR MAST/UPRIGHT/BOOMS & CATENARY/CONTACT WIRE

- (i) No manual erection to be carried out, whether on existing lines or new lines, without prior written approval of GM/CGM In-charge/Project.
- (ii) In existing lines, erection of masts/uprights/booms is usually done by BFR mounted cranes and wiring by wiring train etc. However, in case of existing single line/double line/triple line where electrification is carried out and Rail crane is not arranged by employer and GM/CGM In-charge advises to expedite the work in writing to undertake erection manually, manual erection rates are also applicable in such case for masts/upright/booms. In case of

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wiring, wiring deck & reel wagon is to be fabricated by executing agency using non AC coach and BFR given by employer. If executing agency fails to fabricate reel wagon & wiring deck & wiring is to be carried out manually to expedite work, no extra payment for manual erection of wiring will be allowed.

- (iii) In case of new single line or double line or third line or fourth line where Rail crane/wiring deck movement is not possible, manual erection is to be carried out with the prior written approval of GM/CGM In-charge of the project.

TENDER FORMS & ANNEXURES

PART- VII

TENDER FORMS

FORM No.	SUBJECT
Form No.1	Schedule of items
Form No.2	Standing indemnity bond for on account payment.
Form No.3	Format of Integrity Pact
Form No.4	Anti-profiteering

SCHEDULE OF RATES					
Schedule 1-OHE Work					
Sr.No	Item Description	Qty Unit	Item Qty	Unit Rate	Total Cost
1	Preparation of design and drawing for overhead equipment and verification of purchaser Modification plan	Per Track KM	0.70	16441.93	11509.35
2	Excavation for Structure Excavation in all types of soils and soft/hard rock, concrete/masonry drains/walls	cum	160.00	207.51	33201.60
3	Foundation work: providing and laying of concrete for foundation and plinth in all types of soils using M-15 grade concrete for main foundation and M-20 grade concrete for grouting and muffling including nominal reinforcement wherever required as per RDSO drawings including muffling				
3.1	M-15 (Foundation)	cum	120.00	7489.16	898699.20
3.2	M-20 (Grouting)	cum	20.00	9967.41	199348.20
4	Providing and fixing Centering and Shuttering including oil for casting concrete including frame work wherever necessary.	Sqm	25.00	1036.53	25913.25
5	Supply of rolled or Fabricated and galvanized Traction Mast, TTC, Portals, AT Mast, Dwarf Mast etc.	MT	27.00	125852.22	3398009.94
6	Erection of rolled or Fabricated and galvanized Traction Mast, TTC, Portals, AT Mast, Dwarf Mast etc.	MT	27.00	9319.83	251635.41
7	Supply of Fabricated and galvanized SPS other than Mast	MT	3.00	126901.94	380705.82
8	Erection of Fabricated and galvanized SPS other than Mast	MT	3.00	9075.18	27225.54
9	Supply of Single Bracket assembly	Numbers	27.00	20090.52	542444.04
10	Erection of Single Bracket assembly	Numbers	27.00	1948.84	52618.68
11	Supply of Stay and Bracket Tube composite Insulator set CD- 1600 mm	Set	27.00	8886.25	239928.75
12	Erection of Stay and Bracket Tube composite Insulator set CD- 1600 mm	Set	27.00	1284.99	34694.73
13	Supply of OHE with complete fitting without contact and catenary wire	Per Track KM	0.70	34285.13	23999.59
14	Erection of OHE with complete fitting without contact and catenary wire	Per Track KM	0.70	33157.7	23210.39
15	Supply of Copper jumper wire	Numbers	5.00	7312.54	36562.70
16	Erection of Copper jumper wire	Numbers	5.00	730.54	3652.70
17	Supply of Guy Rod Assembly	Numbers	5.00	9789.15	48945.75
18	Erection of Guy Rod Assembly	Numbers	5.00	1282.27	6411.35
19	Supply of 09 ton Insulators (CD- 1600)	Numbers	4.00	7171.91	28687.64
20	Erection of 09 ton Insulators (CD- 1600)	Numbers	4.00	427.56	1710.24
21	Supply of 3 Pulley ATD with Counter weight Assembly.	Numbers	1.00	70165.57	70165.57
22	Erection of 3 Pulley ATD with Counterweight Assembly.	Numbers	1.00	4666.2	4666.20
23	Supply of 5 Pulley ATD with Counter weight Assembly.	Numbers	1.00	118451.47	118451.47
24	Erection of 5 Pulley ATD with Counterweight Assembly.	Numbers	1.00	4666.2	4666.20

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25	Supply of Retro reflective type Number plate as per DFCCIL requirement including all fixing arrangement	Numbers	8.00	774.65	6197.20
26	Erection of Retro reflective type Number plate as per DFCCIL requirement including all fixing arrangement	Numbers	8.00	77.47	619.76
27	Supply of danger/Caution Board, unwired turn out board, Engine Stop Board, Sigma Board, Neutral section Board and other Boards per DFCCIL requirement	Numbers	10.00	1403.89	14038.90
28	Erection of danger/Caution Board, unwired turn out board, Engine Stop Board, Sigma Board, Neutral section Board and other Boards per DFCCIL requirement	Numbers	10.00	156.62	1566.20
29	Supply of Single earth electrode with earth Pit complete	Numbers	1.00	3149.34	3149.34
30	Erection of Single earth electrode with earth Pit complete	Numbers	1.00	1360.5	1360.50
31	Supply of structure Bond including Rail clamp	Numbers	18.00	808.71	14556.78
32	Erection of structure Bond including Rail clamp	Numbers	18.00	197.23	3550.14
33	Supply of Catenary wire of 65/125 sq. mm as per DFCCIL requirement.	MT	0.42	1074512.7	451295.33
34	Supply of Contact Wire of 107 /150 sq. mm as per DFCCIL requirement	MT	0.69	1074512.7	741413.76
35	Supply of 150 sq. mm Contact wire Splice	Numbers	1.00	4340.62	4340.62
36	Erection of 150 sq. mm Contact wire Splice	Numbers	1.00	434.06	434.06
37	Supply of 125 sq. mm Contact wire Splice	Numbers	1.00	2035.86	2035.86
38	Erection of 125 sq. mm Catenary wire Splice	Numbers	1.00	203.59	203.59
39	Supply of PTFE Short Neutral section Assembly	Numbers	1.00	1254795.92	1254795.92
40	Erection of PTFE Short Neutral section Assembly	Numbers	1.00	9052.1	9052.10
41	Dismantling of Bracket Assembly	Numbers	9.00	1621.86	14596.74
42	Cutting and Removal of Existing structure	Numbers	9.00	1150.52	10354.68
43	Reclamation of OHE Mast/structures	Numbers	9.00	3704.63	33341.67
44	Dismantling of Guy rod assembly	Numbers	1.00	795.57	795.57
45	Dismantling of Fabricated steel other than Mast	MT	2.00	14586.79	29173.58
46	Dismantling of ATD assembly and Termination	Numbers	1.00	4211.73	4211.73
47	Dismantling of 09 Ton Insulators	Numbers	2.00	831.76	1663.52
48	Supply of Dropper wire for fabrication of droppers	Kg	65.00	1180.98	76763.70
49	Transfer of equipment from one mast or support to another.	Each	9.00	543.08	4887.72
50	Handling Loading unloading and /transportation of DFC supply /released OHE material such as Mast, Wires,Fittings SPS etc. From IMD/ISMD to Site & released material from site to IMD/ISMD	MT	7.50	4202.14	31516.05
Schedule Totals					9182979.33
Schedule 2-100 % Extra on erection Rate for work done under Power Block					
1	Erection of rolled or Fabricated and galvanized Traction Mast, TTC, Portals, AT Mast, Dwarf Mast etc.	MT	27.00	9319.83	251635.41
2	Erection of Fabricated and galvanized SPS other than Mast	MT	3.00	9075.18	27225.54
3	Erection of Single Bracket assembly	Numbers	27.00	1948.84	52618.68

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4	Erection of Stay and Bracket Tube composite Insulator set CD- 1600 mm	Set	27.00	1284.99	34694.73
5	Erection of Copper jumper wire	Numbers	5.00	730.54	3652.70
6	Erection of Guy Rod Assembly	Numbers	5.00	1282.27	6411.35
7	Erection of 09 ton Insulators (CD- 1600)	Numbers	4.00	427.56	1710.24
8	Erection of 3 Pulley ATD with Counterweight Assembly.	Numbers	1.00	4666.2	4666.20
9	Erection of 5 Pulley ATD with Counterweight Assembly.	Numbers	1.00	4666.2	4666.20
10	Erection of PTFE Short Neutral section Assembly	Numbers	1.00	9052.1	9052.10
11	Erection of OHE with complete fitting (Conventional type) without contact and catenary wire	Per Track KM	0.70	33157.7	23210.39
12	Dismantling of Guy rod assembly	Numbers	1.00	795.57	795.57
13	Dismantling of Fabricated steel other than Mast	MT	2.00	14586.79	29173.58
14	Dismantling of ATD assembly and Termination	Numbers	1.00	4211.73	4211.73
15	Dismantling of 09 Ton Insulators	Numbers	2.00	831.76	1663.52
16	Dismantling of Bracket Assembly	Numbers	9.00	1621.86	14596.74
17	Cutting and Removal of Existing structure	Numbers	9.00	1150.52	10354.68
18	Transfer of equipment from one mast or support to another.	Each	9.00	543.08	4887.72
Schedule Total					4,85,227.08
Grand Total of Schedule 1 & 2					96,68,206.41
Say Rs. Ninety-Six Lakh Sixty Eight Thousand Two Hundred Six and Fourty One Piasa only					

**SAMPLE
STANDING INDEMNITY BOND FOR “ON ACCOUNT” PAYMENTS**

(On paper of requisite stamp value)

We, M/s_____ hereby undertake that we hold at our stores Depot/s at_____ for and on behalf of the Managing Director/ DFCCIL acting in the premises through _____ the Chief General Manager/Co / DFCCIL/Ajmer or his successor (hereinafter referred to as “The Employer”) all materials for which “On Account” payments have been made to us against the Contract for (____) on the section DFCCIL also referred to as Group/s_____ vide letter of Acceptance of Tender _____ dated _____ and material handed over to us by the employer for the purpose of execution of the said contract, until such time the materials are duly erected or otherwise handed over to him.

We shall be entirely responsible for the safe custody and protection of the said materials against all risk till they are duly delivered as erected equipment to the employer or as he may direct otherwise and shall indemnify the employer against any loss /damage or deterioration whatsoever in respect of the said material while in our possession and against disposal of surplus materials. The said materials shall at all times be open to inspection by any officer authorized by the CGM, DFCCIL/Ajmer in charge of Dedicated Freight Corridor Corporation of India Limited (Whose address will be intimated in due course).

Should any loss, damage or deterioration of materials occur or surplus material disposed off and refund becomes due, the Employer shall be entitled to recover from us the 85% of supply portion of the Contract (as applicable) and also compensation for such loss or damage if any long with the amount to be refunded without prejudice to any other remedies available to him by deduction from any sum due or any sum which at any time hereafter becomes due to us under the said or any other Contract.

Dated this day _____ day of _____ 20

For and on behalf of M/s _____ (Contractor)

Signature of witness

Name of witness in Block letter. Address.

PRE CONTRACT INTEGRITY PACT

General

This pre-bid pre-contract Agreement (herein after called the Integrity Pact) is made on-----
-----day of the month of-----, between, on one hand, the DFCCIL acting through Shri ----- Designation of the officer, (hereinafter called the CLIENT, which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and M/s-----represented by Shri-----
--Chief Executive Officer (hereinafter called the "BIDDER/SELLER" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second part.

WHEREAS the CLIENT proposes to procure (Name of the Stores/Equipment/Item, Name of the Consultancy Service, Name of Works Contract, Name of Services) and the BIDDER is willing to Offer/has offered for stores or works.

WHEREAS the BIDDER is a private company/ public company/ Government undertaking/ partnership/ registered export agency, constituted in accordance with the relevant law in the matter and the CLIENT is a PSU performing its functions or behalf of the President of India.

NOW, THEREFOR,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:-

Enabling the CLIENT to obtain the desired said (Name of the Stores/Equipment/Item, Name of the Consultancy Service, Name of Works Contract, Name of Services) at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure Contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the CLIENT will commit to prevent corruption, in any form, by its Officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

Commitments of the CLIENT

- 1.0 The CLIENT undertakes that no official of the CLIENT, connected directly or indirectly with the Contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER either for themselves or for any person, organization or third party related to the Contract, in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the Contract.
- 1.1 The CLIENT will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
- 1.2 All the officials of the CLIENT will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such breach.

2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the CLIENT with full, and verifiable facts and the same is prima facie found to be correct by the CLIENT, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the CLIENT and such a person shall be debarred from further dealings related to the Contract process. In such a case while an enquiry is being conducted by the CLIENT the proceedings under the Contract would not be stalled.

Commitments of BIDDERS

3. The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage) in order to secure the Contract or in furtherance to secure it and in particular commit itself to the following:-
- 3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission fees, brokerage or inducement to any official of the CLIENT, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the (B) in exchange for any advantage in the bidding, evaluation, contracting and implementation of the Contract.
- 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any Material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the CLIENT or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the Contractor any other Contract with the Government for showing or for bearing to show favour or disfavour to any person in relation to the Contract or any other Contract with the Government.
- 3.3 *BIDDER shall disclose the name and address of agents and representatives and Indian BIDDER shall disclose their foreign principals or associates.
- 3.4 * BIDDER shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
- 3.5 The BIDDER further confirms and declares to the CLIENT that the BIDDER is the original manufacturer/ integrator/ authorized government sponsored export entity of the defense stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the CLIENT or any of its functionaries, whether officially or unofficially to the award of the Contract to the BIDDER nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
- 3.6 The BIDDER either while presenting the bid or during pre-contract negotiations or before signing the Contract shall disclose any payments he has made, is committed to or intends to make to officials of the CLIENT or their family members, agents, brokers or any other intermediaries in connection with the Contract and the details of services agreed upon for such payments.
- 3.7 The BIDDER will not collude with other parties interested in the Contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the Contract.
- 3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

- 3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the CLIENT as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.12 If the, BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or Indirectly, is a relative of any of the officers of the CLIENT, or alternatively, if any relative of an officer of the CLIENT has financial.
Interest/stake in the Bidder's firm, the same shall be disclosed by the BIDDER at the time of filling of tender.
The term 'relative' for this purpose would be as defined in section 6 of the companies' act 1956.
- 3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealing so transactions, directly or indirectly, with any employee of the CLIENT.

4. Previous Transaction

- 4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any public sector enterprise in India or any Government department in India that could justify BIDDER's from the tender process.
- 4.2 The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. Earnest Money (Security Deposit)

- 5.1 While submitting commercial bid, the BIDDER shall deposit an amount (to be specified in RFP) as Earnest Money/Security Deposit, with the CLIENT through any of the following instruments:-
- i. Bank draft or a pay order in favour of_____.
 - ii. A confirmed guarantee by an Indian nationalized bank, promising payment of the guaranteed sum to the CLIENT on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the CLIENT shall be treated as conclusive proof or payment.
 - iii. Any other mode or through any other instrument (to be specified in the RFP).
- 5.2 The earnest money/Security deposit shall be valid up to a period of five years or the contractual obligations to the complete satisfaction of both the BIDDER and the CLIENT, including warranty period, whichever is later.
- 5.3 In case of the successful BIDDER a clause would also be incorporated in the article

pertaining to performance Guarantee in the Contract that the provisions of sanctions for violation shall be applicable for forfeiture of performance bond in case of a decision by client to forfeit the same without assigning any reason for imposing sanction for violation of this pact.

- 5.4 No interest shall be payable by CLIENT to the BIDDER on earnest Money/Security Deposit for the period of its currency.

6. Sanctions for Violations

- 6.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER shall entitle the CLIENT to take all or any one of the following actions, wherever required:-
- (i) To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the [A]. However, the proceedings with the other BIDDER(s) would continue.
 - (ii) The earnest money deposit (in pre-contract stage) and/or security Deposit/performance Bond (after the Contract is signed) shall stand forfeited fully and the CLIENT shall not be required to assign any reason therefore.
 - (iii) To immediately cancel the Contract, if already signed, without giving any compensation to the [A].
 - (iv) To recover all sums already paid by the CLIENT, and in case of an Indian [A] with interest thereon at 2% higher than the prevailing prime lending rate of state bank of India, while in case of a BIDDER from the country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to BIDDER from the CLIENT in connection with any other Contract, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
 - (v) To encash the advance bank guarantee and performance bond, if furnished by the [A], in order to recover the payments, already made by CLIENT, along with interest.
 - (vi) To cancel all or any other contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the Client resulting from such cancellation/rescission and the client shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
 - (vii) To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which may be further extended at the discretion of the CLIENT.
 - (viii) To recover all sums paid in violation of this pact by BIDDER to any middle man or agent or broker with a view to securing the contract.
 - (ix) In cases where irrevocable letters of credit have been received in respect of any Contract signed by the client with the BIDDER, the same shall not be opened.
 - (x) Forfeiture of Performance Bond in case of a decision by the client to forfeit the same without assigning any reason for imposing sanction for violation of this pact.

- (xi) The client will have entitled to take all or any of the actions mentioned at para 6.1(i) to (x) of this pact also on the commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the [A], of an offence as defined in chapter IX of the Indian penal code, 1860 or prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 6.2 The decision of the CLIENT to the effect that a breach of the provisions of this pact has been committed by the BIDDER shall be final and conclusive on the [A]. However, the BIDDER can approach the Independent Monitor(s) appointed for the purposes of this Pact.
7. Fall Clause
- 7.1 The BIDDER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/system or subsystems was supplied by BIDDER to any other Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the CLIENT, if the Contract has already been concluded.
8. Independent Monitors
- 8.1 The CLIENT has appointed Independent Monitors (hereinafter referred to as Monitors) for this pact in consultant with the central vigilance commission (Names and addresses of the Monitors to be given)
- 8.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this pact.
- 8.3 The monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 8.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.
- 8.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the CLIENT
- 8.6 The BIDDER(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the CLIENT including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid Interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the
- [A] With confidentiality.
- 8.7 The client will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 8.8 The monitor will submit a written report to the MD/DFCCIL within 8 to 10 weeks from the date of reference or intimation to him by the CLIENT/BIDDER and, should the occasion arise, submit proposal for correcting problematic situations.
9. Facilitation of Investigation
- In case of any allegation of violation of any provisions of this Pact or payment of commission, the CLIENT or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the

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- purpose of such examination.
10. Law and Place of Jurisdiction
This pact is subject to Indian law. The place of performance and jurisdiction is the seat of the CLIENT.
11. Other Legal Actions
The actions stipulated in this integrity pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.
12. Validity
- 12.1 The validity of this integrity pact shall be from date of its signing and extend up to 5 years or the complete execution of the Contract to the satisfaction of both the CLIENT and the BIDDER including warranty period, whichever is later. In case BIDDER is unsuccessful, this integrity pact shall expire after six months from the date of the signing of the Contract.
- 12.2 Should one or several provisions of this pact turn out to be invalid; the remainder of this pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.
13. The parties hereby sign this integrity pact at.....On.....

CLIENT

BIDDER

Name of the Officer

Designation

Deptt./Ministry/PSU

Witness

1._____

2.....

Witness

1.-----

2.....

ANTI-PROFITEERINGDECLARATION

TO WHOMSOEVER IT MAYCONCERN

I.....,age.....,years, Son/Daughter of....., resident of
..... Do solemnly affirm and state as under:

- 1) That I am the_____ <Designation of the authorized signatory> of
.....And I am duly authorized to furnish this undertaking/declaration on behalf
of..... (Name of the company).
- 2) That (Name of the company) has been awarded the
work (Name of Work) vide Letter of Award number
..... Dated by M/s Dedicated Freight Corridor Corporation of India
Limited.
- 3) That the Company is fully aware of the anti-profiteering provision under the Goods
& Services Tax ("GST")Law(s),
- 4) That the Company Has passed the benefit of input tax credit
available on the.....(good/services) having HSN.....
supplied to M/s Dedicated Freight Corridor Corporation of India Limited which it is
getting on account of reduced tax liability and input tax credit because of enactment
of GST Laws after introduction of Goods and Service Tax w.e.f. 1st July, 2017. The
details and amounts being passed on to DFCCIL are provided in Annexure Of this
document and areas per applicable GST Laws. These are true and correct to the best
of my knowledge, information and belief.
- 5) Further, it is to confirm also that in case (name of the organization) will receive
any further benefit in future after 1st July, 2017 by way of availment of input tax credits which
were not allowed to be availed before 1st July, 2017 or reduction in tax rates or in any other
manner which results in reduction of cost of the goods/services supplied to M/s Dedicated Freight
Corridor Corporation of India Limited, then Company will pass that benefit to M/s Dedicated Freight
Corridor Corporation of India Limited also.
- 6) That I declare that the foregoing is true and correct and the same is a legal obligation and
failure to fulfil it could result in penalties under the law.
- 7) I confirm that I am aware of the implication of the above undertaking and our liability on
account of incorrect/misleading declaration under the GST Laws.

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Signature of the Authorized signatory/ person

Name and Designation of the Auth. Sign/person of the person

Name of the Organization and Seal

Executed on a non-judicial stamp paper of Rs.100/- duly notarized by notary public

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ANNEXURE-I

(Para 16.1(a) of General Instructions) & clause No. 14 (i), (ii) Part-I of
GCC APRIL-2022, with up to date correction slip

1.	Full name of the firm	:
2.	Registered Head Office Address	:
3.	Branch Office in India (If any)	:
4.	Constitution of firm (whether Sole proprietorship firm/Partnership firm/ Limited Company/Joint Venture (JV)/Registered Society/ Registered Trust /LLP/HUF etc.)	:
5.	Bank account details of the firm i.e. Account No., name of bank and bank specific code number (MICR & IFSC) to facilitate electronic payment	
6.	Detail of PAN of the firm	
7.	E Mail ID	

I/we declare that the is not blacklisted or debarred by Railway/DFCCIL or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which HUF was / is a partner/member. I/ We are aware that concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.

Note:- 1. Please enclosed-

(i) Attested copy/copies of the constitution of their firm (ii) Copy of PAN CARD.

2. Tender document has to be signed by such persons as may be legally competent to sign on behalf of the firm, company, association, HUF, LLP, trust or society as the case m

Date:

Signature of Tenderer/s
With Seal

Tender No.: AII-EL-MD-IQG-Madar-T-22

ANNEXURE-II

(Para 16.1(b) of General Instructions)& clause No. 6.1 &11(iv) Part-I of

GCC APRIL-2022, with up to date correction slip

FORMAT FOR CERTIFICATE TO BE SUBMITTED / UPLOADED BY TENDERER ALONG WITH THE TENDER DOCUMENTS

I..... (Name and designation) ** appointed as the attorney/ authorized signatory of the tenderer (including its constituents), M/s..... (hereinafter called the tenderer) for the purpose of the Tender documents for the work of..... As per the tender No..... of (DFCCIL), do hereby solemnly affirm and state on the behalf of the tenderer including its constituents as under:

1. I/we the tenderer (s), am/are signing this document after carefully reading the contents.
2. I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3. I/we hereby declare that I/we have downloaded the tender documents from Indian Railway Electronic procurement System website www.ireps.gov.in. I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the DFCCIL Administration shall be final and binding upon me/us.
4. I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5. **I/we also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.**
6. **I/we declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.**
7. I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.
8. I/we understand that if the certificates regarding eligibility criteria submitted by us are found to be forged/false or incorrect at any time during process for evaluation of tenders, it shall lead to forfeiture of the tender EMD besides banning of business for a period of up to five year. Further, I/we (*insert name of the tenderer*) ** ----- and all my/our constituents understand that my/our offer shall be summarily rejected.
9. I/we also understand that if the contents of the certificate submitted by us are found to be false/forged or incorrect at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of EMD/SD and Performance guarantee besides any other action provided in the contract including banning of business for a period of up to five year.
10. I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

SEAL AND SIGNATURE
OF THE TENDERER

Place:
Dated:

** The contents in Italics are only for guidance purpose. Details as appropriate are to be filled in suitably by tenderer.

This certificate is to be given by each member of JV or Partners of Partnership firm/LLP etc.

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“ANNEXURE -III”

(Para 16.0(c) and Note to para 15 Note No.(iii) of General Instructions) &
Clause No. 10.1(a) and explanation to clause 10 -part I of GCC APRIL-2022

Details of works of similar nature physically completed in all respect as per contract agreement during last seven years, ending last day of month previous to the one in which tender is invited

SN	Name of work	Name of organization for whom work physically completed	Type of organization for whom work executed	Contract Agreement No. & Date	Original value of contract agreement	Final value of contract as completed	Payment received till opening of present tender (On account/final bill)	Time taken for completion of work		Principal feature of the work in brief
								Date of award of contract	Date of actual completion	
1	2	3	4	5	6	7	8	9	10	11
1.										
2.										

Date:

Signature of Tenderer/s
With Seal

Note:-

- (i) Above detail should be given only for works which have been physically completed in all respects, for the similar nature work defined in clause 15.5 above. Part completed work shall not be considered.
- (ii) Certificate from Private individual for whom such works are executed shall not be considered for eligibility of tenderers.
- (iii) The tenderers should attach self-attested copy of certificate issued by the organizations for whom the work was carried out in the proforma as per Annexure-IV-A, IV-B, IV-C as applicable.
- (iv) In column 4 type of organization is to be mentioned viz. Central/ State Governments /Public Sector Undertaking/Public Funded Institutions/Municipal Bodies /DFCCIL Siding owners /Concessionaire/ Public listed company.
- (v) In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of advertised value of the tender (for works without composite components).
- (vi) No technical and financial credentials are required for tenders having value up to Rs.50 lakhs.
- (vii) In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials.

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- (viii)** If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials.
- (ix)** If a part or a component of work is completed but the overall scope of contract is not completed, this work shall not be considered for fulfillment of technical credentials even if the cost of part completed work/component is more than required for fulfillment of credentials.
- (x)** In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost of that work including PVC amount if any shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.
- (xi)** For col no 7, the value of final bill including PVC amount-if paid, or otherwise in case final bill is pending the contract cost in last approved variation statement plus PVC amount paid or cumulative amount paid up to last on-account bill including PVC amount and statutory deductions whichever is less, shall be considered as the completion cost of work.
- (xii)** In case, the Secondary Component(s) has/ have been defined in clause 15.5 above, the details of successfully completed works of similar nature (that defined for the Secondary Component), executed by tenderer himself / the subcontractor (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor) during last five years, shall also be submitted in above performa.

Attested copy of Completion Certificate of works mentioned in para (c) above from (xiii) the Organizations with whom they worked as per performa given in **Annexure-IVA or IV-B or IV-C** as applicable.

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ANNEXURE-IV(A)

(Para 16.1 (d) and Note to para 15 Note No.(iii) b of General Instructions)

Clause No. 11(i), and explanation to clause 10 of part I of GCC APRIL-2022

COMPLETION CERTIFICATE

Name of Organization Postal address, Phone No., Email ID, Fax No

Letter No. Date:-.....

1	Name of work	
2	Contract Agreement (C/A) No. and date	
3	Name of Firm with address	
4	Nature of entity (Sole Prop./Partnership firm/company/Joint Venture firm/Registered Society /registered Trust etc.)	
5. (i)	In case of Partnership firm/JV/..... Name and % share of individual partners/members.	
(ii)	In case of Sole Proprietorship, the name of sole proprietor	
6.	Original value of contract agreement.	
7	Completion Cost of Work	
7.1	in case final payments have been made- Contract Cost in last approved variation statement plus PVC amount paid	
7.2	in case final bill is pending -	
(i)	the contract cost in last approved variation statement plus PVC amount paid	
(ii)	cumulative amount paid up to last on-account bill including PVC amount and statutory deductions	
8.	Date of award of contract	
9.	Has the work physically been completed in all respect as per contract agreement?	(Yes / No)
10.(i)	If yes, then actual date of physical completion.	
(ii)	Whether extension to DOC given with penalty or without penalty	
11	Total payment made in above contract till the date of inviting of present tender along with financial year –wise break-up	
12	In case of composite work: (See note (vii) below) Payment made for relevant distinct component of the work, out of total payment made under Sr. No. 7 above.	
12.1	In case final payments for the component have been made- Cost of component in contract in last approved variation statement plus PVC amount paid	
12.2	In case final bill is pending -	
(i)	The Cost of component in contract in last approved variation statement plus PVC amount paid	
(ii)	Cumulative amount paid for the component up to last on account bill including PVC amount and statutory deductions	
13	Performance of Contractor (Satisfactory/Unsatisfactory)	

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I hereby certify that above mentioned work has been physically completed in all respect as per contract agreement. Performance of the contractor while executing the work had been satisfactory.

Date-	(Signature) Name and Designation of officer
Mobile No. of officer Seal of officer	

Note:-

- (i) Submission of false certificates by tenderer shall lead to, forfeiture of EMD and other action including penal action (Annexure-II).
- (ii) Copy of certificate duly self-attested shall be submitted along with tender document.
- (iii) Payment made as indicated in above certificate (At Sr. No. 11/ Sr. No. 12) will be considered as value of completed work for the purpose of eligibility under special technical criteria.
- (iv) Above format is for guidance only. Any certificate containing information asked for shall be considered.
- (v) In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of advertised value of the tender (for works without composite components).
- (vi) In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of cost of any component of work in separate sheet (for work with composite components).
- (vii) Only those works will be treated as composite works which consist of more than one distinct component of work such as Civil Engg. Works, S&T work, Electrical work, OHE work etc. and there is separate schedule for each such distinct components in the tender documents.
- (viii) No technical and financial credentials are required for tenders having value upto Rs. 50 lakhs.
- (ix) In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials.
- (x) If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials.
- (xi) If a part or a component of work is completed but the overall scope of contract is not completed, this work shall not be considered for fulfillment of technical credentials even if the cost of part completed work/component is more than required for fulfillment of credentials.
- (xii) In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost of that work including PVC amount if any shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.
- (xiii) For col 7 & 12 -The value of final bill including PVC amount-if paid, or otherwise in case final bill is pending the contract cost in last approved variation statement plus PVC amount paid or cumulative amount paid up to last on-account bill including PVC amount and statutory deductions whichever is less, shall be considered as the completion cost of work/ component.
- (xiv) In case, the Secondary Component(s) has/ have been defined in clause 15.5 above, the Attested copy of Completion Certificate of works executed by tenderer himself / the subcontractor (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor) during last five years, shall also be submitted in above performa.

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ANNEXURE-IV-(B)

(Para 16.1(d) and Note to para 15 Note No.(iii) b of General Instructions)
Clause No. 11.(i), and explanation to clause 10 of part I of GCC APRIL-2022

COMPLETION CERTIFICATE (If the work is awarded by Concessionaire)

Name of Concessionaire
Address and Contract details i.e.
Phone No.FAX, e-mail.

Letter No.

Date:-.....

1.1	Name of work /Project executed by the Concessionaire	
1.2	Name and Address of Authority which awarded work to the Concessionaire.	
1.3	Name of work awarded by the Concessionaire to the firm.	
2.	Contract Agreement (C/A) No. and date	
3.	Name of Firm with address	
4.	Nature of entity (Sole Prop./Partnership firm/company/Joint Venture firm/Registered Society /registered Trust etc.)	
5. (i)	In case of Partnership firm/JV/..... Name and % share of individual partners/members.	
(ii)	In case of Sole Proprietorship, the name of sole proprietor	
6.	Original value of contract agreement.	
7	Completion Cost of Work	
7.1	in case final payments have been made- Contract Cost in last approved variation statement plus PVC amount paid	
7.2	in case final bill is pending -	
(i)	the contract cost in last approved variation statement plus PVC amount paid	
(ii)	cumulative amount paid up to last on-account bill including PVC amount and statutory deductions	
8.	Date of award of contract	
9.	Has the work physically been completed in all respect as per contract agreement?	(Yes / No)
10. (i)	If yes, then actual date of physical completion.	
(ii)	Whether extension to DOC given with penalty or without penalty	
11.	Total payment made in above contract till the date of opening of present tender along with financial year –wise break-up	
12	In case of composite work: (See note (vii) below) Payment made for relevant distinct component of the work, out of total payment made under Sr. No. 7 above.	
12.1	in case final payments for the component have been made- Cost of component in contract in last approved variation statement plus PVC amount paid	
12.2	in case final bill is pending -	
(i)	the Cost of component in contract in last approved variation statement plus PVC amount paid	
(ii)	cumulative amount paid for the component up to last on account bill including PVC amount and statutory deductions	
13.	Performance of Contractor (Satisfactory/Unsatisfactory)	

I hereby certify that above mentioned work has been physically completed in all respect as per contract agreement. Performance of the contractor while executing the work had been satisfactory.

Tender No.: All-EL-MD-IQG-Madar-T-22

Signature & Name of Authorized Person

of the Concessionaire with Seal and

Mobile No. of Issuing Person.

Note:-

- (i) Submission of false certificates by tenderer shall lead to, forfeiture of EMD and other action including penal action (Annexure-II).
- (ii) Copy of certificate duly self-attested shall be submitted along with tender document.
- (iii) Payment made as indicated in above certificate (At Sr. No. 9/ Sr. No. 10) will be considered as value of completed work for the purpose of eligibility under special technical criteria.
- (iv) Above format is for guidance only. Any certificate containing information asked for shall be considered
- (v) A self-attested copy of LOA and concessionaire agreement executed between concessionaire & Authority at Sr. No 1 above shall be submitted along with this completion certificate.
- (vi) In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of advertised value of the tender (for works without composite components).
- (vii) In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of cost of any component of work in separate sheet (for work with composite components).
- (viii) Only those works will be treated as composite works which consist of more than one distinct component such as Civil Engg. Works, S&T work, Electrical work, OHE work etc. and there is separate schedule for each such distinct components in the tender documents
- (ix) No technical and financial credentials are required for tenders having value upto Rs. 50 lakhs
- (x) In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials.
- (xi) If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials.
- (xii) If a part or a component of work is completed but the overall scope of contract is not completed, this work shall not be considered for fulfillment of technical credentials even if the cost of part completed work/component is more than required for fulfillment of credentials.
- (xiii) In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost of that work including PVC amount if any shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.
- (xiv) For col 7 & 12 -The value of final bill including PVC amount-if paid, or otherwise, In case final bill is pending the contract cost in last approved variation statement plus PVC amount paid or cumulative amount paid up to last on-account bill including PVC amount and statutory deductions whichever is less, shall be considered as the completion cost of work/ component.
- (xv) In case, the Secondary Component(s) has/ have been defined in clause 15.5 above, the Attested copy of Completion Certificate of works executed by tenderer himself / the subcontractor (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor) during last five years, shall also be submitted in above Performa.

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ANNEXURE-IV-(C)

(Para 16.1 (d) and Note to para 15 Note No.(iii) b of General Instructions)
Clause No. 11(i), and explanation to clause 10 of part I of GCC APRIL-2022

COMPLETION CERTIFICATE

(If the work is awarded by Public listed company)

Name of the public listed company

Address and Contract details i.e. Phone No. FAX, e-mail.

Letter No.Date:-.....

1.1	Name of work /Project	
1.2	Name and Address of the public listed company	
1.3	Number as incorporated/ registered in the National stock exchange or Bombay stock exchange	
1.4	Date of getting listed in NSE/BSE (document to be attached as per note (vi) below).	
1.5	Average Annual turnover of the public listed company in last three financial years excluding current financial year. (details to be attached as per proforma in annexure VIII as per note (vii) below)	
2.	Contract Agreement (C/A) No. and date	
3.	Name of Firm with address	
4.	Nature of entity (Sole Prop./Partnership firm/company/Joint Venture firm/Registered Society /registered Trust etc.)	
5. (i)	In case of Partnership firm/JV/..... Name and % share of individual partners/members.	
(ii)	In case of Sole Proprietorship, the name of sole proprietor	
6.	Original value of contract agreement.	
7	Completion Cost of Work	
7.1	in case final payments have been made- Contract Cost in last approved variation statement plus PVC amount paid	
7.2	in case final bill is pending -	
(i)	the contract cost in last approved variation statement plus PVC amount paid	
(ii)	cumulative amount paid up to last on-account bill including PVC amount and statutory deductions	
8.	Date of award of contract	
9.	Has the work physically been completed in all respect as per contract agreement?	(Yes / No)
10. (i)	If yes, then actual date of physical completion.	
(ii)	Whether extension to DOC given with penalty or without penalty	
11.	Total payment made in above contract till the date of opening of present tender along with financial year –wise break-up	
12	In case of composite work: (See note (vii) below) Payment made for relevant distinct component of the work, out of total payment made under Sr. No. 7 above.	

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12.1	in case final payments for the component have been made- Cost of component in contract in last approved variation statement plus PVC amount paid	
12.2	in case final bill is pending -	
(i)	the Cost of component in contract in last approved variation statement plus PVC amount paid	
(ii)	cumulative amount paid for the component up to last on account bill including PVC amount and statutory deductions	
13	Performance of Contractor (Satisfactory/Unsatisfactory)	

I hereby certify that above mentioned work has been physically completed in all respect as per contract agreement. Performance of the contractor while executing the work had been satisfactory.

Date

Signature & Name of Person Authorized
By the Public listed Company with Seal and
Mobile No. of Issuing Person.

Note:-

Following documents regarding the **Public listed company** are required to be submitted along with the certificate **(Mandatory)**

1. Details of Average Annual turnover of the public listed company in last three financial years excluding current financial year (should be 500 Cr and above) issued by Chartered Accountant. These details need to be submitted as per the proforma of Annexure VIII.
2. The copy of the documents regarding listing in the National stock exchange or Bombay stock exchange with details of status of listing as on date of opening of tender, duly self-attested.
3. The copy of the document of incorporation/ registration of the Public listed company (should be at least 5 years prior to date of opening of tender), duly self-attested.
4. The copy of document regarding Person Authorized by the Public listed Company to issue such certificate, duly self-attested.
5. The relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant. TDS certificates for all payments received a copy of final/last bill paid by the public listed company in support of above work experience certificate duly self-attested.
 - (i) The certificate shall not be taken into consideration if any of the above conditions, prerequisites is not fulfilled or required supporting mandatory documents are found deficient. Submission of false certificates by tenderer shall lead to, forfeiture of EMD and other action including penal action (Annexure-II).
 - (ii) Above format is for guidance only. Any certificate containing required information asked for shall be considered
 - (iii) In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of advertised value of the tender (for works without composite components).
 - (iv) In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of cost of any component of work in separate sheet (for work with composite components).
 - (v) Only those works will be treated as composite works which consist of more than one distinct component such as Civil Engg, Works, S&T work, Electrical work, OHE work etc. and there is separate schedule for each such distinct components in the tender document

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- (vi) In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials.
- (vii) If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for **fulfillment** of credentials.
- (viii) If a part or a component of work is completed but the overall scope of contract is not **completed**, this work shall not be considered for fulfillment of technical credentials even if the cost of part completed work/component is more than required for fulfillment of credentials.
- (ix) In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost of that work including PVC amount if any shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.
- (x) For col 7 & 12 -The value of final bill including PVC amount-if paid, or otherwise in case final bill is pending the contract cost in last approved variation statement plus PVC amount paid or cumulative amount paid up to last on-account bill including PVC amount and statutory deductions whichever is less, shall be considered as the completion cost of work/ component.
- (xi) In case, the Secondary Component(s) has/ have been defined in clause 15.5 above, the Attested copy of Completion Certificate of works executed by tenderer himself / the subcontractor (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor) during last five years, shall also be submitted in above Performa.

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ANNEXURE-V

Para 16.1 (f) of General Instructions) (Clause No.10.3 and explanation to clause 10 of Part-I of GCC APRIL-2022, with up to (date correction slip)

LIST OF AWARDED WORKS UNDER EXECUTIONAND/OR WORK AWARDED BUT NOT YET STARTED TILL DATE OF OPENING OF TENDER

(Mandatory for tenders more than Rs. 20 Cr value wherein eligibility criteria includes Bid Capacity also, to evaluate Bid Capacity of tenderer)

Sr. No	Name & place of work	Organization for whom work is being carried out	Date of award of contract, Contract Agreement No. & Date	Original cost of work /Revised Cost (up to latest corrigendum)	Date of Completion (Original Extended)	Payment Received Till Date of opening of present tender	Balance amount of the work to be executed	Balance period of work to be executed	'B' Value of work to be done in 'N' years (See notebelow)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8) (5)-(7)	(9)	(10)
1									
2									
3									
4									
Total									

Date

Signature of Chartered Accountant

Signature of Tenderer/s with seal

NOTE :-

- (a) This statement should be submitted duly verified by Chartered Accountant.
- (b) In case of no works in hand, a 'NIL' statement should be furnished duly verified by chartered Accountant.
- (c) In case of JV firm, the details of works with each member of JV is required to be submitted duly verified by Chartered Accountant.
- (d) In case, the tenderer/s failed to submit the above statement along with offer, their/his offer shall be considered as incomplete and will be rejected **summarily**.
- (e) N for column 10 –Number of years prescribed for completion of work for which bids has been invited.
- (f) 'B' is the value of existing commitments and balance amount of ongoing works with the tenderer to be completed in next 'N' years.
- (g) For N equal or more than column (9) , Value of 'B' will be same as column (8)
- (h) For contracts not having any defined part financial/physical completion stages /milestones, and N < column (9) then the value of 'B' will be as per formula $B=(8)*N/(9)$
- (i) In case part financial / physical completion stages / milestone is defined in the contract's value of 'B' shall be calculated accordingly.
- (j) No technical and financial credentials are required for tenders having value upto Rs. 50 lakhs

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ANNEXURE-VI

(Para 16.1 (h) of General Instructions)

Clause No.11(iii) Annex.I of Part-I of GCC APRIL-2022 ,with up to date correction slip.

LIST OF PLANTS & MACHINERY AVAILABLE ON HAND AND PROPOSED TO BE INDUCTED (OWN AND HIRED TO BE GIVEN SEPARATELY) FOR SUBJECT WORK.

Sr. No.	Particulars of Plants/Machinery	No. of Unit	Kind and make	Capacity	Age & Conditions	Owned by firm	Proposed to be purchased	
							Date placing of order	Likely date of receipt
1	2	3	4	5	6	7	8	9
1								
2								
3								
4								
5								
6								
7								

Note:

- (a) Indicate clearly, whether (i) Owned by firm, or (ii) To be purchased by firm giving date of placing order and likely date of receipt.
- (b) Optimum Plants and Machineries required to be deployed during execution of work.
- (i) Earthwork in formation of New Line / Doubling/ Gauge Conversion Project: Poclain, JCB, Vibratory Roller, Grader, Dumpers, Tractors, Water tank etc.
- (ii) Concreting work for bridge work: Concrete pump, Transit mixer as per requirement, Batching plant of suitable capacity, JCB, Needle vibrator 60/40mm etc.

Signature of Tenderer/s

Dated:-----

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ANNEXURE-VII

(Para 16.1 (i) of General Instructions) **Clause No.11 (iii) Annex.I of Part-I of GCC APRIL-2022, with up to date correction slip.**

LIST OF PERSONNEL ORGANIZATION AVAILABLE ON HAND AND PROPOSED TO BE ENGAGED FOR THE SUBJECT WORK.

Sr. No.	Name & Designation	Qualification	Professional experience	Remarks
1.	2	3	4	5
1				
2				
3				
4				
5				
6				
7				
8				

Signature of Tenderer/s

Dated:-----

Tender No.: All-EL-MD-IQG-Madar-T-22

ANNEXURE-VIII

(Para 16.1 (k) of General Instructions)

Reference -Para 10.2 & 17.15.2 of Tender Form (Second Sheet) of Annexure I of ITT

(Each Bidder or each member of a JV must fill in this form separately)

NAME OF BIDDER/JV PARTNER:

Annual Contractual Turnover Data for the Previous 3/4 Years (Contractual Payment only)			
Year	Amount Currency	Exchange Rate	Indian National Rupees Equivalent
Average Annual Contractual Turnover for last 3 years			

1. The average annual contractual turnover shall be calculated as an average of “total contractual payments” in the previous three financial years. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover.
2. The information supplied shall be substantiated by data in the audited balance sheets and profit and loss accounts for the relevant years in respect of the bidder or all members constituting the bidder.
3. Contents of this form should be certified by a Chartered Accountant duly supported by Audited Balance Sheet duly certified by the Chartered Accountant.

SEAL AND SIGNATURE OF THE BIDDER

Certified that all figures and facts submitted in this form have been furnished after full consideration of all observations/notes in Auditor’s reports. _____

(Signature of Chartered Accountant)

Name of CA: _____

Registration No: _____

(Seal)

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ANNEXURE-IX

(Para 16.2.1(a)& 16.2.7(a) of General Instructions&
Para 9.0 (ii) of General Instructions)

CERTIFICATE

(For sole proprietorship firm / Sole proprietorship firm participating as member of JV)

I..... (Indicate Name of Sole prop) S/o(Full address of Sole prop) Proprietor of M/s..... (Indicate Name of Proprietary firm) situated at(Full address of Sole prop firm) do hereby solemnly affirm & declare as under:-

1. That I, who is submitting the tender on behalf of the **SOLE PROPRIETOR** is the **Proprietor** of the firm working in the name & style of M/s.....

(Indicate Name – Proprietary firm) at

Deponent

Signature and Seal

VERIFICATION

I, the above named deponent do hereby solemnly affirm & verify that the contents of my above affidavit are true & correct. Nothing has been concealed and no part of it is false.

Deponent

Signature and Seal

Place:-

Date:-

Note: - The stamp duty shall be governed by the provision of the Law relating to stamp in Force in that State at the time when such AFFIDAVIT is being executed. Affidavit shall be affirmed before the Notary Public.

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ANNEXURE-X

(Para 16.2.7 (a) of General Instructions)

Clause No. 17.6 of Annex.I Part-I of GCC APRIL-2022, with up to date correction slip)

MEMORANDUM OF UNDERSTANDING FOR JV

(The Memorandum of Understanding shall be submitted in following format on the nonjudicial stamp of Rs.500/- duly notarized by Notary Public)

NOW THIS Memorandum of Understanding is executed at (Name of Place) on this date (DD/MM/YY) between M/s(Name of first constituent and address) as the first party represented by Shriand M/s..... (Name of 2nd constituent and address) represented by Shri..... As the second party and so on 3rd, 4th&5th subsequent parties. (The expression and words of first and second and other shall mean and include their heir's successors, assigns, nominees, execution, administrators and legal representatives respectively).

WHEREAS all the parties are engaged mainly in the business of execution of Civil Engineering and general contracts for various Government Departments and organizations.

AND WHEREAS the parties herein above mentioned are desirous of entering into a joint venture for carrying out civil engineering and/or contract works in connection with Tender No.

..... (Name of work)..... "As mutually decided between members of Joint Venture Agreement.

1. That we M/s..... (JV firm) on behalf of all members of this joint venture agreement agreed that M/s will be "Lead Partner" of this Joint Venture.
2. That under this MOU, the work will be done jointly by M/s The first party and M/s the second and so onin the name and style of (Name)(Joint venture firm).
3. That we JV firm M/s on behalf of all the members of JV firm shall be legally liable, severally and jointly responsible/ liable for the satisfactory/ successful execution/ completion of the works including maintenance period in all respects and in accordance with terms and conditions of the contract.
4. That we M/s JV firm..... On behalf of all the members of the JV firm to which the contract is awarded, shall be jointly and severally liable to the Employer (DFCCIL) for execution of the project in accordance with General and Special Conditions of the Contract. The JV members shall also be liable jointly and severally for the loss, damages caused to the DFCCIL during the course of execution of the contract or due to non-execution of the contract or part thereof.
5. M/s(Name of Lead Firm) of JV firm shall be the lead member of the JV firm who shall have a majority% share of interest in the JV firm. The other (One/Two) members shall have following share: - M/s (Name of Second Firm) have % and M/s (Name of Third Firm if any) have% share of interest in the JV Firm.
6. That this JV shall be valid during the entire currency of the contract including the period of extension, if any, and the maintenance period after the work is completed.
7. That we all the Joint Venture members authorize Mr./Ms.....one of the members on behalf of the JV firm to deal with the tender, sign the agreement or enter into contract in respect of the said tender, to receive payment, to witness joint measurement of work done, to sign measurement books and similar such action in respect of the said tender/contract. All notices/ correspondence with respect to the contract would be sent to this authorized member..... (Address) of the JV firm. In case the offer is submitted by the person other than those who is appointed as above and there is difference between the

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name of the person authorized as above and the person who digitally submitted the offer then our offer shall be deemed to be summarily rejected.

8. That no member of the JV shall have the right to assign or transfer the interest right or Liability in the contract without the written consent of the other members and that of the employer (DFCCIL) in respect of the said tender/contract.
9. That we all the members of the JV certify that we have not been black listed or debarred by DFCCIL or any other Ministry/Department /PSU (Public Sector Undertaking) of the Govt. of India/ State Govt. from participation in tenders/contract in the past either in our individual capacity or as a member of the JV firm or partnership firm in which they were members/partners.. I/ We are aware that concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.
10. That this Joint Venture MOU shall in all respect be governed by and interpreted in accordance with Indian Laws.

Now the parties have joined hands to form this MOU on this date (DD/MM/YY) with reference to and in confirmation of their discussions and understanding brought on record on date (DD /MM /YY).

In witness thereof all/both the above named parties have set their respective hands on this MOU on the day, month and year first above mentioned, in the presence of the following witnesses:-

1. First party (authorized signatory)
2. Second party (authorized signatory)
3. Third party (if any) (authorized signatory)

With Seal of parties

Witnesses with name & full address:-

1.....

2.....

Date.....

Place.....

NOTE: - Should MOU be in more than one separate page, each page shall be Signed by the authorized signatory.

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Annexure-XI

(Para 16.2.7.3(b) of General Instructions)
Clause No. 17.14.1 of Annex. I Part-I GCC APRIL-2022)

"LETTER OF CONSENT"

(To be submitted by Partnership Firm participating as member of JV)

We the following partners of M/s..... (Indicate name of firm)

(1).....(2).....(3).....
... (4).....(5)..... (6).....having its office at
.....hereby give our consent on behalf of M/s..... (Indicate name of firm) in favour of
Mr..... (Indicate name of Partner), whose specimen signature are appended below, for
entering into Joint Venture Agreement with M/s..... (Indicate name of other
firm's)..... having office at in connection with T. No.....Name of work
..... to sign & execute the MOU, JV agreement and all other required documents pertaining to above said
tender on behalf of firm.

We have read the contents of this letter of consent & accept the same and we hereby agree to and
ratify all acts, deeds & things of them or any documents executed by the said partner in the scope of this letter
of consent on behalf of firm.

This letter of consent is made at on

Name & Signature of Partner/s

(Signature of Sh.....)

DATE.....

Place.....

1.
2.
3.
4.
5.

Seal of the Firm

Note:- The stamp duty of Rs. 500/- or shall be governed by the provision of the Law relating to stamp in force in
that State at the time.

Tender No.: AII-EL-MD-IQG-Madar-T-22

Annexure-XII

(Para 16.2.7.1 of General Instructions) & clause No. 17.14.2, 17.14.3 © and cl.15 of Annex I Part-I of GCC APRIL-2022, with up to date correction slip

SPECIAL POWER OF ATTORNEY

(To be submitted by Private/Limited Companies, Sole Proprietor or HUF participating as member of JV)

BE IT KNOWN to all that I (Indicate name of Director/Sole Prop.)..... at the Company/Proprietary firm/HUF (Indicate Name of Company / Sole Proprietary firm/ HUF) having its office at do hereby for and on behalf of the said Company/Proprietary firm/HUF appoint Sh.....S/o Shriage..... (Indicate Name of Nominee with full address) of the Company/Prop. Firm/HUF as our Attorney, whose specimen signature are appended below to execute the MOU/ JV Agreement & all other required documents with M/s (Indicate Name of other Co. /Prop. firm)..... Situated at in connection with the following tender invited by DFCCIL:-

“T.No.....Name of work.....”

.....”

We/ I have read the content of this Special Power of Attorney & accept the same, and we/ I hereby agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done by our said Attorney.

In witness where of I..... (Indicate name of Director/ Sole Prop/ Karta.) Of M/s..... (Indicate name of Co. / Prop. Firm/HUF) the above named Director / Proprietor has executed this Power of Attorney.

For M/s.....

(Sign. of Shri.....)

(Sign& Seal) Place...

Date:-.....

The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized.

(For private/ limited company as member of JV- the annexure XII is required even if MOU/JV agreement is signed by the authorized/ Power of attorney holder himself as per the Copy of Resolution)

(For sole proprietor firm/HUF as member of JV- Not required if MOU/JV agreement is signed by the proprietor of the sole proprietor firm/ karta of HUF himself)

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Annexure-XIII

(Para 16.2.3 (b) of General Instructions)& clause No. 14 (a)(ii),
15 Annex I Part-I of GCC APRIL-2022, with up to date correction slip

SPECIAL POWER OF ATTORNEY (For Partnership Firms only)

BE IT KNOWN to all that we (1) (2).....
(3).....(4).....(5)..... all the partners of the firm.....
having its registered office at do hereby, for and on behalf of the said firm appoint
Shri..... (Name& designation) Special Attorney of the said firm and authorize the said
Shri..... (name), whose specimen signature are appended below, to do all or any of the following
acts deeds and/or things on behalf of the said firm and to represent the firm in respect for the tender
No..... (Name of work)..... invited by DFCCIL.

1. To appear before office of DFCCIL related to the process of tendering for the above said tender.
2. To procure/download the tender documents for the above said tender.
3. To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender. In case the offer is submitted by the person other than those who is appointed as above and there is difference between the name of the person authorized as above and the person who digitally submitted the offer then our offer shall be deemed to be summarily rejected.
4. To attend meetings and submit clarifications including negotiations, if any, called by DFCCIL.
5. To sign the agreement and other relevant documents & receive payment on behalf of firm,
6. To co-ordinate measurement through contractor's authorized engineer, witness measurement, sign measurement books on behalf of firm.
7. To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to arbitration.

We/ I have read the content of this Special Power of Attorney & accept the same and We/I hereby agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done by our said Attorney.

(Signature of Sri.....)

Executants Partner
(Name & signature)

DATE

1.....

2.....

3.....

4.....

Place :-

Seal of Firm

Seal of Firm

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly have registered with registrar or notarized.

(Required even if one or more Partners are authorized in the Partnership Firm to sign on behalf of the Firm)

Tender No.: AII-EL-MD-IQG-Madar-T-22

Annexure-XIV

(Para 16.2.1 (b) of General Instructions) & clause No. 15 Annex I Part-I of
GCC APRIL-2022, with up to date correction slip

SPECIAL POWER OF ATTORNEY

(For Sole Proprietor Firm only) BE IT KNOWN

to all that I Sole Proprietor of the firm having its registered office at do hereby, for and on behalf of the said firm appoint Shri..... (Name& designation with full address) Special Attorney of the said firm and authorize the said Shri..... (name) whose specimen signature are appended below, to do all or any of the following acts deeds and/or things on behalf of the said firm and to represent the firm in respect for the tender No..... (Name of work)..... invited by DFCCIL.

1. To appear before office of DFCCIL related to the process of tendering for the above said tender.
2. To procure/download the tender documents for the above said tender.
3. To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender.
4. To attend meetings and submit clarifications including negotiations, if any, called by DFCCIL.
5. To sign the agreement and other relevant documents & receive payment on behalf of firm,
6. To co-ordinate measurement through contractor's authorized engineer, witness measurement, sign measurement books on behalf of firm.
7. To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to Arbitration Tribunal.

I have read the content of this Special Power of Attorney & accept the same and I hereby agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done by our said Attorney.

(Signature with name of Power attorney Holder)

(Name & signature of sole proprietor)

Dated

Place

(Seal of Firm)

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized.

(Not required if tender is uploaded by Proprietor himself)

Tender No.: AII-EL-MD-IQG-Madar-T-22

Annexure-XV

(Para 16.2.4 (D) of General Instructions)
& clause No. 14(c) (ii) and 15 of Part-I of GCC APRIL-2022, with up to date correction slip

SPECIAL POWER OF ATTORNEY (For Private/Limited companies only)

BE IT KNOWN To all that (Name of firm) having its registered office at do hereby, for and on behalf of the firm appoint Shri..... (Name& designation) Special Attorney of the said firm and authorize the said Shri..... (name) whose specimen signatures are appended below, to do all or any of the following acts deeds and/or things on behalf of the said firm and to represent the firm in respect for the tender No..... (Name of work)..... invited by DFCCIL.

1. To appear before office of DFCCIL related to the process of tendering for the above said tender.
2. To download the tender documents for the above said tender.
3. To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender.
4. To attend meetings and submit clarifications including negotiations, if any, called by DFCCIL.
5. To sign the agreement and other relevant documents & receive payment on behalf of Company,
6. To co-ordinate measurement through contractor authorized engineer, witness measurement, sign measurement books on behalf of Company.
7. To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to arbitration.

We have read the content of this Special Power of Attorney & accept the same and we hereby agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done by our said Attorney.

(Signature of Shri.....)

Authorized signatory of the firm

Dated.....

Place

Seal of Firm

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized. Required even if tender documents are submitted by the authorized/ power of attorney holder himself as per resolution passed by Board of Directors

Tender No.: AII-EL-MD-IQG-Madar-T-22

ANNEXURE-XVI

MODEL FORM OF BANK GUARANTEE BOND FOR PG

To
CPM
DFCCIL, Ajmer

1. In consideration of the President of India acting through (indicate designation of concerned
2. CPM (hereinafter called "the Government") having agreed to exempt – (Name & address)----- (hereinafter called "the said Contractor(s)" from the demand, under the terms and conditions of an Agreement dated ----- made between ----- and ----- for - ----- (hereinafter called "the said Agreement"), of Performance Guarantee for the due fulfillment by the said Contractor(s) of the terms and conditions contained in the said Agreement, on production of a bank Guarantee for Rs. ----- (Rupees-----only) we, ----- (hereinafter referred to as "the Bank" at the request of ----- (contractor(s) do hereby undertake to pay to the Government an amount not exceeding Rs. ----- --against any loss or damage caused to or suffered or would be caused to or suffered by the Government by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.
3. We----- (indicate the name of the bank) i.e. ----- (name, address and branch code) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by reason of breach by the said contractor(s) of any of the terms of conditions contained in the said Agreement or by reason of the contractor(s) failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. -----
4. We under-take to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s)/supplier (s) in any suite or proceeding pending before any court or Tribunal relating thereto our liability under this present being absolute and unequivocal.
The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s)/supplier(s) shall have no claim against us for making such payment.
5. We----- (Indicate the name of bank) i.e. ----- (name, address and branch code) further agreed with the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance/of the said Agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till ----- (office/Department) Ministry of ----- certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on in writing on or before the ----- we shall be discharged from all liability under this guarantee thereafter.
6. We----- (Indicate the name of bank) i.e. ----- (name, address and branch) further agree with the government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to post opens for any time or from time to time any of the powers exercisable by the Government against the said, Contractor(s) and to further or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or commission on the part of the Government or any indulgence by the Government to the said Contractor(s) or any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
7. This guarantee will not be discharged due to the change in the constitution of the bank or the contractor(s)/Supplier(s).
8. We ----- (indicate the name of bank) i.e. ----- (Name, address and branch code) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Government in writing.

Dated the----- day of -----2020

For _____ (indicate the name of bank)
i.e. ----- (Name, address and branch code)

Tender No.: AII-EL-MD-IQG-Madar-T-22

ANNEXURE-XVII

(Para 16.2.7.4 (c) of General Instructions &
Clause No. 17.14.3 (a) of Annex.I Part-I of GCC APRIL-2022, with up to date correction slip)

SPECIMEN BOARD'S RESOLUTION OF A PRIVATE/LIMITED COMPANY FOREENTERING INTO JV WITH OTHER ENTITIES

Extract from the minutes of meeting of Board of Directors of the company held on
..... (Date) at the office of the company situated at
(Address of the company).

RESOLVED THAT (Name of the company) have decided
to participate for the said tender for the work of (Name of the
work) in joint venture with M/s..... (Name of the other Firm/Firms or company/companies
with addresses) in name and style of the JV firm..... (Name of the Joint
Venture firm).

FURTHER RESOLVED THAT Shri ... (Name and designation of
authorized person of the company) is hereby authorized to execute & sign all necessary documents for
submission of tender documents, JV Agreement and any documents in connection with present tender on behalf
of company etc. For the above mentioned work on behalf of the company.

Signed by Managing Director/
Director/ Company Secretary Of the Company

Note:-

1. Stipulations in the above specimen Board's Resolution are for guidance only. Companies can incorporate other stipulation /stipulations relevant with the tender and formation of JV, if required.
2. The above Annexure should be executed on the Letter Head of the company.

Tender No.: AII-EL-MD-IQG-Madar-T-22

Annexure-XVIII

Clause No. 16.2.7.3(c) of General Instructions & Clause No. 17.14.1 (c) and 15 of Annex.I Part-I of GCC APRIL-2022, with up to date correction slip

SPECIAL POWER OF ATTORNEY **(For Partnership Firms participating as a member of JV only)**

We the following partners of M/s..... (Indicate name of firm)

(1).....2.....

3.....4.....

5.....6.....having its

office athereby give our consent on behalf of M/s.....

.....(Indicate name of firm) in favour of Mr..... (Indicate name of Partner), whose specimen signature are appended below, for entering into Joint Venture Agreement with

M/s..... (Indicate name of other firm's)..... having office at in connection with T. No.....Name of work

..... to sign & execute the MOU, JV agreement and all other required documents pertaining to above said tender.

We have read the content of this Special Power of Attorney & accept the same and we hereby agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done by our said Attorney.

(Signature of Sri.....)

DATE

Place

Seal of Firm

Executants Partner

(Name & signature)

1.....

2.....

3.....

4.....

Seal of Firm

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized. Required even if MOU/JV agreement is signed by one or more partners authorized in the Partnership Firm as per the Partnership deed, letter of consent.

Tender No.: All-EL-MD-IQG-Madar-T-22

ANNEXURE-XIX

Clause No. 16.1(g) of General Instructions & Clause No. 10.3 Annex.I Part-I of GCC APRIL-2022, with
up to date correction slip

(ON THE LETTER HEAD OF CHARTERED ACCOUNTANT)

(Mandatory and applicable for tenders valuing more than Rs 20 Cr to calculate Bid Capacity of tenderer- For
value of A)

To

CPM

DFCCIL, Ajmer.

Sub: -Construction works executed and payment received

It is to certify that construction works executed and payment received through construction works of M/s
(Name of firm).....during the previous three financial years and the current financial year (up to date
of inviting tender), as extracted from, Balance sheet/ certificate **issued by the employer/ client**, Form 16 ,
Form 26AS etc. are as under :-

Sr. No.	Financial year	Work executed And Payment received through construction works
1.	Current year (Say A)	
2.	A-1	
3.	A-2	
4.	A-3	

Yours sincerely,

Date: ...

(Name & Sign. Of Authorized Signatory)

Seal of firm

Registration No:-

E-Mail:-

Note :

- (a) In case of JV firm details of construction works executed by each member of JV is required to be submitted
- (b) In case, the tenderer/s failed to submit the above statement (for tenders valuing more than 20 Cr) along with offer, their/his offer shall be considered as incomplete and will be rejected **summarily**.

Tender No.: AII-EL-MD-IQG-Madar-T-22

Annexure –XX

Clause No. 16.2.7.5(d) of General Instructions &
Clause No. 14(f)(iii) and 15 of Annex.-I Part-I of
GCC APRIL-2022, with up to date correction slip

SPECIAL POWER-OF-ATTORNEY (For LLP Firm incorporated under LLP Act)

KNOW ALL MEN BY THESE PRESENTS: WHEREAS M/S
.....
..... (Name of LLP & LLPIN number) is a LLP Firm registered under
the LLP Act, 2008, and having its registered office
at..... (hereinafter called the 'LLP').
AND WHEREAS by its resolution No..... passed in the meeting held on..... of the Partners of
the LLP (LLP name) have decided to participate in the tender
No. invited by DFCCIL for the work namely
“

I.....(name and designation) the authorized representative of M/S
..... (name of LLP) duly authorized in this behalf by aforesaid
resolution do hereby irrevocably constitute, nominate, appoint and authorize Mr./Ms.
.....(designation).....(address)..... & Mr./ Ms./Mr./Ms.
.....(designation).....(address)..... who is/are presently holding the above
mentioned position in the LLP as our true and lawful attorney (hereinafter referred to as “Attorney”) of the LLP
to jointly or severally exercise all or any of the following powers for and on behalf of
M/S..... (name of LLP & LLPIN number) in respect of the
aforesaid tender Invited by the DFCCIL :

1. To appear before office of DFCCIL related to the process of tendering for the above said tender.
2. To download the tender documents for the above said tender.
3. To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender.
4. To attend meetings and submit clarifications including negotiations, if any, called by DFCCIL.
5. To sign the agreement and other relevant documents & receive payment on behalf of firm,
6. To co-ordinate measurement through contractor authorized engineer, witness measurement, sign measurement books on behalf of firm.
7. To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to arbitration

The LLP agrees and undertakes that in the event of any change in the constitution of the LLP, the rights and obligations of the LLP shall continue to be in full force without any effect thereof. The LLP undertakes that it shall not cancel or amend this power of Attorney without obtaining previous written consent of DFCCIL.

AND the LLP hereby agrees that all acts, deeds or things lawfully done by the said Attorneys or either of them under the authority of this power shall be construed as acts, deeds and things done by the LLP and the LLP hereby undertakes to confirm and ratify all and whatsoever the said Attorneys or either of them shall lawfully do or cause to be done by virtue of the powers hereby given.

IN WITNESS WHEREOF this deed has been signed and sealed by WITNESSES:

Signature Name:
Address:
Name of (Executants):
Designation:

Signature Name:
Address:

Signatures of authorized representative & Seal
of LLP: authorized representative

Tender No.: All-EL-MD-IQG-Madar-T-22

Specimen Signatures of Attorney Holder(s) in token of acceptance:

(1)Name Signature.....

(2Name).....Signature.....

Executed and Signed before me on this.....day of
At(place).

(Seal and signature of Notary Public)

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized.

Required even if tender documents are submitted by the authorized/ power of attorney holder himself as per resolution passed by Partners of the LLP

Tender No.: AII-EL-MD-IQG-Madar-T-22

Annexure -XXI

Clause No. 16.2.5(c) of General Instructions &
Clause No. 14(f)(iii) Annex.I Part-I of GCC APRIL-2022,with up to date correction slip

Partner's Resolution of LLP Firm incorporated under LLP Act for submitting Tender by LLP firm (To be printed on Firm's letter head)

EXTRACT OF THE RESOLUTION PASSED AT THE MEETING OF THE PARTNERS

OF _____ (LLP Name) having LLPIN _____ of 20..... (Hereinafter referred to as LLP) HELD ON (Date) _____ AT (Address) _____

Whereas the Board has been described about NIT No. _____ issued by DFCCIL for the work name "_____". Partners discussed

the matter and after discussion following resolution was passed:

RESOLVED THAT the LLP (LLP name) shall participate in the above tender

Resolved further that the LLP/Partners authorize(s), Mr./ Ms. _____ & Mr./ Ms. _____ (name and designation) of the LLP, to jointly or severally sign and submit all the necessary papers, letters, forms, quotes, bids etc., negotiate, discuss, agree to make any amendments, alterations or modifications thereto and to make representations, submit papers, affidavits and to do any other act and complete requisite formalities on behalf of the LLP in connection with completion of aforesaid tender work and to enter into liability against the LLP.

Resolved further that LLP/Partners authorize(s) Mr./Ms. _____ (Name and Designation) of the LLP to execute Power of Attorney in terms of this resolution in favour of Mr./Ms. _____ & Mr./Ms. _____ the person(s) above named.

The acts done and documents executed by such above named authorized person(s) shall be binding on the LLP. For the Organization,

(Seal of LLP & Signature of authorized person)

Name of authorized person: _____

Designation: _____

Place:

Dated:

Executed and Signed before me on this.....day of
At(place).

(Seal and signature of Notary Public)

Note:-

1. Stipulations in the above specimen Resolution are for guidance only. LLP firm can incorporate other stipulation /stipulations relevant with the tender and formation of JV, if required.
2. The above Annexure should be executed on the Letter Head of LLP firm.
Required even if tender documents are submitted by the authorized/ power of attorney holder himself as per resolution passed by Partners of LLP firm.

Tender No.: AII-EL-MD-IQG-Madar-T-22

Annexure –XXII

Clause No. 16.2.6(c) of General Instructions & Clause No. 14(e)(iii) and 15 of Annex.I Part-I of GCC APRIL- 2022 ,with up to date correction slip

SPECIAL POWER-OF-ATTORNEY (For Registered Society & Registered Trust)

KNOW ALL MEN BY THESE PRESENTS: WHEREAS M/S

..... (Name of **Registered Society / Registered Trust**) is a **Registered Society / Registered Trust** registered under the Act (Name of the act vide which registered), and having its registered office at.....
(hereinafter called the '**Registered Society / Registered Trust**').

AND WHEREAS by its resolution No..... passed in the meeting held on..... of the Executive Member of the **Registered Society / Registered Trust** the **Registered Society / Registered Trust** (**Registered Society / Registered Trust** name) have decided to participate in the tender No. invited by DFCCIL for the work namely “.....”

I.....(name and designation) the authorized representative of M/S
.....(name of **Registered Society / Registered Trust**) duly authorized in this behalf by aforesaid resolution do hereby irrevocably constitute, nominate, appoint and authorize Mr./Ms.(designation).....(address)..... & Mr./Ms./Mr./Ms.(designation).....(address)..... who is/are presently holding the above mentioned position in the **Registered Society / Registered Trust** as our true and lawful attorney (hereinafter referred to as “Attorney”) of the **Registered Society / Registered Trust** to jointly or severally exercise all or any of the following powers for and on behalf of M/S
(name of **Registered Society / Registered Trust**) in respect of the aforesaid tender Invited by DFCCIL :

1. To appear before office of DFCCIL related to the process of tendering for the above said tender.
2. To download the tender documents for the above said tender.
3. To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender.
4. To attend meetings and submit clarifications including negotiations, if any, called by DFCCIL.
5. To sign the agreement and all other required documents & receive payment.
6. To co-ordinate measurement through contractor authorized engineer, witness measurement, sign measurement books on behalf of Registered Trust/Society.
7. To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to arbitration

The **Registered Society / Registered Trust** agrees and undertakes that in the event of any change in the constitution of the **Registered Society / Registered Trust**, the rights and obligations of the **Registered Society / Registered Trust** shall continue to be in full force without any effect thereof.

The **Registered Society / Registered Trust** undertakes that it shall not cancel or amend this power of Attorney without obtaining previous written consent of DFCCIL.

AND the **Registered Society / Registered Trust** hereby agrees that all acts, deeds or things lawfully done by the said Attorneys or either of them under the authority of this power shall be construed as acts, deeds and things done by the **Registered Society / Registered Trust** and the **Registered Society / Registered Trust** hereby undertakes to confirm and ratify all and whatsoever the said Attorneys or either of them shall lawfully do or cause to be done by virtue of the powers hereby given.

IN WITNESS WHEREOF this deed has been signed and sealed

Shri.....(name and designation), on this..... day of..... 20.... , in presence of:

WITNESSES:

Signature Name:
Address:

Signatures of authorized representative
& Seal of **Registered Society / Registered Trust**

Tender No.: AII-EL-MD-IQG-Madar-T-22

Name of authorized Executants): rep
Designation:

Signature Name: Address:

Specimen Signatures of Attorney Holder(s) in token of acceptance:

(1)Name Signature.....

(2Name).....Signature.....

Executed and Signed before me on this.....day of
At(place).

(Seal and signature of Notary Public)

Notes:-

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized.

(Required even if tender documents are submitted by the authorized/ power of attorney holder himself)

Tender No.: AII-EL-MD-IQG-Madar-T-22

Annexure-XXIII

Clause No. 16.1(n) of General Instructions Information and particulars in terms of Para 11(a) and 11(b) of General Instructions and Clause No. 16 of Annexure-I Part-I of GCC APRIL-2022, with up to date correction slip.

(i) Information and particulars regarding employed retired Railway/DFCCIL Engineer (s)/ Officer(s) of the Gazetted rank.

Sr.No.	Name of retired gazette Officer/ Engineer with Designation	Date of Retirement	Details of obtained permission applicable) (wherever
1.			
2.			
3.			
4.			

(ii) Information and particulars regarding retired Railway/DFCCIL Engineer (s)/ Officer(s) of the Gazetted rank being one of the partner in the partnership Firm/ Joint venture/registered Society/ registered firm/ LLP etc

Sr.No.	Name of retired gazette Officer/ Engineer with Designation	Date of Retirement	Details of permission obtained applicable) (wherever
1.			
2.			
3.			
4.			

(iii) Information and particulars regarding retired Railway/DFCCIL Engineer (s)/ Officer(s) of the Gazetted rank being director in the company

Sr.No.	Name of retired gazette Officer/ Engineer with Designation	Date of Retirement	Details of permission obtained applicable) (wherever
1.			
2.			
3.			
4.			

Note:- 1. Details as per the above format shall be furnished by the tenderer. The format should not be left blank. In case of there being no such retired Gazetted Railway/DFCCIL Officer/ Engineer, Nil to be furnished in the format.

2 In case details are not submitted in terms of Para 11(a) by the tenderer, their offer shall be summarily rejected.

3 Also submit the document of permission from the President of India or any officer, duly authorized by him in this behalf, in case (i) where such Engineer or officer had not retired from government service at least 1 year prior to the date of submission of the tender (ii) where such Engineer or officer is a partner or director as the case, in partnership firm or an incorporated company,.

(iv) Information and particulars in terms of Para 11(b) of General instructions regarding Relative(s) employed in gazette capacity on Railway/DFCCIL

Tender No.: AII-EL-MD-IQG-Madar-T-22

Sr. No.	Name of the relative who is employed in gazette capacity on Railway/DFCCIL with Designation	Relation
1.		
2.		
3.		
4.		

Note :- 1. Details as per the above format shall be furnished by the tenderer. The format should not be left blank. In case of there being no such relative, Nil to be furnished in the format.

2. In case details are not submitted in terms of Para 11(b) of General Instructions by the tenderer, their offer shall be summarily rejected.

Signature of the tenderer.....

Name.....

Tender No.: AII-EL-MD-IQG-Madar-T-22

Annexure-XXIV

Clause No. 16.2.7.5(c) of General Instructions Partner's Resolution of LLP Firm for entering into Joint Venture
(To be printed on LLP Firm's letter head)

EXTRACT OF THE RESOLUTION PASSED AT THE MEETING OF THE PARTNERS

OF _____ (LLP Name) having LLPIN of 20.....
(hereinafter referred to as LLP) HELD ON (Date) _____ AT (Address) _____
Whereas the Partners have been
described about NIT No. _____ issued by DFCCIL for the
work namely

"_____". Partners discussed the matter and after
discussion following resolution was passed:

RESOLVED THAT the LLP..... (LLP name) shall participate in the above tender in Joint Venture and for the
purpose the LLP shall enter into and execute joint venture agreement, with M/S _____ &
M/S _____ (name of other constituent(s) of joint venture).

Resolved further that the LLP/Partners authorize(s), Mr./ Ms. _____ & Mr./ Ms.
_____ (name and designation) of the LLP, to jointly or severally, sign joint venture agreement,
and to sign such other documents and to do any other act and complete requisite formalities on behalf of the
LLP in connection with completion of aforesaid tender work and to enter into liability against the LLP.

Resolved further that LLP/Partners authorize(s) Mr./Ms. _____ (name and designation) of the LLP to
execute Power of Attorney in terms of this resolution in favour of
Mr./Ms. _____ Mr./Ms. _____ the person(s) above named.

The acts done and documents executed by such above named authorized person(s) shall be binding on the LLP.

For the Organization,

(Seal of LLP & Signature of authorized person)

Name of authorized person: _____ Designation: _____

_____ Place: _____

Dated: _____

Executed and Signed before me on this.....day of At
.....(place).

(Seal and signature of Notary Public)

Tender No.: AII-EL-MD-IQG-Madar-T-22

Annexure : XXV

Clause No. 16.2.5(d) of General Instructions

POWER-OF-ATTORNEY BY A LLP Firm (incorporated under LLP Act) for entering into JOINT VENTURE AGREEMENT.

(to be executed non judicial stamp paper of appropriate value as per law of state concerned Non Judicial stamp paper should be purchased in the name of the LLP)

KNOW ALL MEN BY THESE PRESENTS: WHEREAS M/S
..... (name of LLP & LLPIN number) is a LLP registered under
the LLP Act, 2008, and having its registered office at..... (Hereinafter called the 'LLP'). AND WHEREAS by its
resolution No..... passed in the meeting held on..... of the Partners of
the LLP, the LLP..... (LLP name) has decided to participate in the tender
No. issued by DFCCIL for the work namely
“ ” in Joint Venture and for the purpose the LLP
shall enter into and execute joint venture agreement with
M/S & M/S (name of other constituent(s) of joint venture)
AND THAT M/S (name of the lead member of joint venture) shall act as the lead member
of above mentioned joint venture.
I..... (name and designation) the authorised representative of
M/S (name of LLP) duly authorized in this behalf by aforesaid
resolution do hereby irrevocably constitute, nominate, appoint and authorize Mr./Ms.
..... (designation) (address) & Mr./ Ms. Mr./ Ms.
..... (designation) (address) who is/are presently holding the above
mentioned position in the LLP as our true and lawful attorney (hereinafter referred to as “Attorney”) of the LLP to
jointly or severally exercise all or any of the following powers for and on behalf of M/S
..... (Name of LLP & LLPIN number) in connection with aforesaid
bid:

1. To enter into and execute and sign JOINT VENTURE agreement, draft of which has been approved by the LLP, on behalf of the LLP with above named constituents for participating in the aforesaid bid of the DFCCIL on behalf of the LLP.
2. To sign and submit all the necessary papers, letters, forms, quotes, bids etc.
3. To do any other act and complete requisite formalities on behalf of the LLP in connection with completion of aforesaid tender work and to enter into liability against the LLP.
4. And generally to do all such acts, deeds or things as may be necessary or proper for the purposes mentioned above.

The LLP agrees and undertakes that in the event of any change in the constitution of the LLP, the rights and obligations of the LLP shall continue to be in full force without any effect thereof.

The LLP undertakes that it shall not cancel or amend this power of Attorney without obtaining previous written consent of DFCCIL.

AND the LLP hereby agrees that all acts, deeds or things lawfully done by the said Attorneys or either of them under the authority of this power shall be construed as acts, deeds and things done by the LLP and the LLP hereby undertakes to confirm and ratify all and whatsoever the said Attorneys or either of them shall lawfully do or cause to be done by virtue of the powers hereby given.

IN WITNESS WHEREOF this deed has been signed and sealed by
Shri..... (name and designation), on this..... day of..... 20... , in presence of:

WITNESSES:

Signature Name:
Address:

Signatures of authorized representative & Seal
of LLP:

Name of authorized representative:
Designation:

Tender No.: All-EL-MD-IQG-Madar-T-22

Signature Name: Address:

Specimen Signatures of Attorney Holder in token of acceptance:

(1)NameSignature.....

(2)NameSignature.....

Executed and Signed before me on this.....day of At(place).

(Seal and signature of Notary Public)

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized.

Required even if tender documents are submitted by the authorized/ power of attorney holder of the LLP firm himself

Tender No.: All-EL-MD-IQG-Madar-T-22

ANNEXURE-XXVI

(Para 16.2.7.6 (c) of General Instructions)

SPECIMEN RESOLUTION OF EXECUTIVE COMMITTEE OF REGISTERED SOCIETY/TRUST

(To be printed on registered society/ trust's letter head)

FOR ENTERING INTO JV WITH OTHER ENTITIES

Extract from the minutes of meeting of Executive Committee of Registered Society/Trust held on
(Date) at the office of the Registered Society/Trust situated at (Address
of the Registered Society/Trust).

RESOLVED THAT (Name of the Registered Society/Trust) have decided to
participate for the said tender for the work of (Name of the work)
in joint venture with M/s..... (Name of the other Firm/Firms or company/companies/
Registered Society/Trust with addresses) in name and style of the JV firm..... (Name of the
Joint Venture firm).

FURTHER RESOLVED THAT Shri (Name and designation of authorized person of the
Registered Society/Trust) is hereby authorized to execute & sign all necessary documents for submission of
tender documents, JV Agreement and any documents in connection with present tender on behalf of Registered
Society/Trust etc. For the above mentioned work on behalf of the Registered Society/Trust.

Name and Signed by authorized

Executants/s of Registered Society/Trust

Note:-

1. Stipulations in the above specimen Resolution are for guidance only. Registered Society/Trust can incorporate other stipulation /stipulations relevant with the tender and formation of JV, if required.
2. The above Annexure should be executed on the Letter Head of Registered Society/Trust.

(Para 16.2.7.6 (c) of General Instructions)

SPECIAL POWER OF ATTORNEY

(To be submitted by Registered Society/Trust participating as member of JV) BE

IT KNOWN to all that I (Indicate name of Authorised signature of the Registered Society/Trust).....
at the Registered Society/Trust (Indicate Name of Registered Society/Trust) having its office at
..... do hereby for and on behalf of the said Registered Society/Trust appoint Sh.....S/o Shri
.....age..... (Indicate Name of Nominee with full address) of the Registered Society/Trust as our Attorney,
whose specimen signature are appended below to execute the MOU/ JV Agreement & all other required
documents with M/s (Indicate Name of other Co. /Prop. firm/ Registered Society/Trust).....
Situating at in connection with the following tender invited by DFCCIL:-

“T.No.....Name of work.....
.....”

We/ I have read the content of this Special Power of Attorney & accept the same, and we/ I hereby
agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done
by our said Attorney.

In witness where of I..... (Indicate name of Authorised signatory of the Registered Society/Trust) Of
..... (Indicate name of Registered Society/Trust) the above named Authorised signatory has executed
this Power of Attorney.

For (Name of
Executants/s of Registered Society/Trust)

(Name, address and Sign. of Power of Attorney holder Shri.....)

(Sign& Seal) Place...

Date:-.....

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the
time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or
notarized.

Required even if tender documents are submitted by the authorized/ power of attorney holder of Registered
Society/ firm himself

**DFCCIL CONTRACT AGREEMENT OF WORKS
(charged to EBR(IF) CONTRACT**

AGREEMENT NO. -----DATED-----

ARTICLE OF AGREEMENT made on this day _____ in the year Two Thousand and between the President of India, acting through the _____ (DFCCIL) Administration having its office at Ajmer hereinafter called the 'DFCCIL' of the first and part and ----- Name of Contractor ----- hereinafter called the 'Contractor' of the second part and Indian Railway Finance Corporation Limited hereinafter called the 'IRFC' of the third part having its office at ----- with GSTIN ----- (GSTIN of billing unit, IRFC).

First part, second part and third part collectively hereinafter called the 'Parties'.

WHEREAS the contractor has agreed with the DFCCIL for performance of the works----- set forth in the schedule hereto annexed upon the Standard General Condition of Contract corrected up to latest correction slips and the Specifications of the -----DFCCIL corrected up to latest correction slips and the Specifications of the ----- DFCCIL, corrected up to latest correction slips and the Special Condition and Specifications, if any, and in conformity with the Drawings here-into annexed AND WHEREAS the performance of the said works is an act in which the public are interested.

NOW THIS INDENTURE WITNESSETH that in consideration to payments to be made by the DFCCIL, the Contractor will duly perform the said works in the said schedule set forth and shall execute the same with great promptness, care and accuracy in a workman like manner to the satisfaction of the DFCCIL and will complete the same in accordance with the said specifications and said drawings and said conditions of contracts on or before the ----- day of -----20--- and will maintain the said work for a period of ----- calendar months from the certified date of their completion and will observe, fulfill and keep all the conditions there is mentioned (which shall be deemed and taken to be part of this contract as if the same have been fully set forth herein) AND the DFCCIL both hereby agree that if the Contractor shall duly perform the said works in the manner aforesaid and observe and keep the said terms and conditions, the DFCCIL will pay or cause to be paid to the contractor for the said works on the final completion thereof the amount due in respect thereof at the rates specified in the Schedule hereto annexed.

It is agreed by and between the parties that DFCCIL shall continue to be held responsible for all obligations, risk and liabilities, whatsoever, arising out of or in connection with the Contract Agreement and this Novation Agreement, whether during the progress of the work or after its completion.

It is further agreed and understood by and between the parties that IRFC shall be the owner of assets, if any, arising out of execution of works as defined in the Contract Agreement, except the land whose ownership shall continue with DFCCIL. Accordingly, the invoices shall be issued by capturing GSTIN of contractor (as the supplier) and GSTIN of IRFC (as the bill-to party). Also, the contractor shall submit the invoice, issued in the name of IRFC, to DFCCIL for processing payment by DFCCIL to Contractor subject to applicable TDS under the Income Tax, GST or any other applicable laws.

It is further agreed by and between the parties that IRFC shall be responsible to comply with Income Tax and GST laws in relation to filling of returns.

All the communication in relation to the Contract Agreement would only be between Party hereto of first part and second part.

For and on behalf of the President of India

Witness of the Signature

1.

2.

Address :-----

Signature of Contractor

Name of Authorized Signatory

Tender No.: All-EL-MD-IQG-Madar-T-22

Witnesses of the Signature

1.....

2.....

Address:.....

For and on behalf of the
Indian Railway Finance Corporation

Witness of the Signature

1.

2.

Address:-----

Tender No.: All-EL-MD-IQG-Madar-T-22

ANNEXURE-XXIX

((Para 16.2.2 (a) of General Instructions)
clause 14(ii) (b) of the GCC APRIL-2022)

CERTIFICATE

(For HUF (Hindu Undivided Family / for JV having HUF as member)

I..... (Indicate Name of Karta) S/o (Full address of HUF)

Karta of M/s..... (Indicate Name of HUF) situated at (Full address of HUF) do hereby solemnly affirm & declare as under:-

1. That I, who is submitting the tender on behalf of the **HUF** is in the position of **Karta** of the HUF, working in the name & style of (Indicate Name – HUF) at
.....

2. That, I.....(Indicate Name of Karta) has the authority, power and consent given by other members to act on behalf of(name of HUF)

Deponent

Signature and Seal

VERIFICATION

I, the above named deponent do hereby solemnly affirm & verify that the contents of my above affidavit are true & correct. Nothing has been concealed and no part of it is false.

Deponent

Signature and Seal

Place:-

Date:-

Note: - The stamp duty shall be governed by the provision of the Law relating to stamp in Force in that State at the time when such AFFIDAVIT is being executed. Affidavit shall be affirmed before the Notary Public.

Tender No.: AII-EL-MD-IQG-Madar-T-22

Annexure XXX

(Para 16.2..2 (b) of General Instructions)
(Clause 14 (ii) (b) and clause 15 of the GCC APRIL-2022)

SPECIAL POWER OF ATTORNEY (For HUF (Hindu Undivided Family))

BE IT KNOWN to all that we (1) (2).....
(3).....(4).....(5)..... all the members of the HUF.....
having its registered office at do hereby, for and on behalf of the said firm appoint
Shri..... (Name & designation) Special Attorney of the said HUF and authorize the said
Shri..... (name), whose specimen signature are appended below, to do all or any of the following
acts deeds and/or things on behalf of the said firm and to represent the firm in respect for the tender
No..... (Name of work)..... invited by DFCCIL.

1. To appear before office of DFCCIL related to the process of tendering for the above said tender.
2. To procure/download the tender documents for the above said tender.
3. To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender. In case the offer is submitted by the person other than those who is appointed as above and there is difference between the name of the person authorized as above and the person who digitally submitted the offer then our offer shall be deemed to be summarily rejected.
4. To attend meetings and submit clarifications including negotiations, if any, called by DFCCIL.
5. To sign the agreement and other relevant documents & receive payment on behalf of firm,
6. To co-ordinate measurement through contractor's authorized engineer, witness measurement, sign measurement books on behalf of firm.
7. To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to arbitration.

We/ I have read the content of this Special Power of Attorney & accept the same and We/I hereby agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done by our said Attorney.

Members of the HUF (Signature of Sri.....)
(Name & signature)

DATE

Place

Seal of Firm

1.....

2.....

3.....

4.....

Seal of Firm

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized. (Not required if tender documents are uploaded by Karta himself).

Tender No.: AII-EL-MD-IQG-Madar-T-22

Annexure XXXI

((Para 16.2.3 (c) of General Instructions)

Explanation for clause 10 – eligibility criteria, of the GCC APRIL-2022)

DECLARATION BY NEWLY FORMED PARTNERSHIP FIRM/ LLP Firm (Mandatory if tenderer is Newly Formed Partnership Firm/ LLP Firm)

I..... S/o Shri....., the authorized signatory of partnership firm/ LLP Firm
M/s do hereby solemnly affirm and declare as under :

1. That, we are the newly formed partnership firm/ LLP Firm in the name and style of M/s
Registered with registrar of firm vide Registration No..... dated.....

2. In this newly formed Partnership Firm/ LLP Firm, we are No. of partners. The details of the previous proprietary firm or previous dissolved partnership firm/ LLP Firm or previous splitted partnership firm (s) / LLP Firm wherein any of the partners of the present firm was a proprietor / Partner and proposed to use credentials obtained in such previous propriety firm (s)/Partnership firm(s) / LLP Firm is as under :-

S.N.	Name of person in the newly formed partnership firm	Details of Previous proprietary/ Partnership Firm/ LLP Firm	Share in newly formed partnership firm	Share in previous partnership firm/ LLP Firm	Remarks
1.					
2.					
3.					

3. That, following relevant documents are Annexed with bid –

- (1) Details of previous Propriety firm / Partnership Firm/ LLP firm as per annexure I
- (2) A copy of previous partnership Firm (Notarized or duly registered with the Registrar) (3) Affidavit as per proforma given of Annexure –IX for previous Propriety firm (duly executed on stamp paper and notarized).
- (4) Copy of previous LLP agreement and certificate of incorporation.
- (5) Dissolution deed/ splitting deed of the previous partnership deed or LLP agreement (in case of dissolution of previous partnership firm/ LLP firm)
- (6) Proof of surrender of previous PAN no (in case of dissolution of previous partnership firm, LLP firm or propriety firm)
- (7) Documents for the technical, financial criteria, bid capacity as claimed w.r.t. such partner(s) joining the new/ existing partnership firm, as per para 16.1 (c), (d), (f),(g), (k) above.

Declaration by the Tenderer:-

We/ I have read the content of this declaration & respective conditions of the GCC regarding assessment of the eligibility of our partnership firm/ LLP firm and have/ has enclosed all the required mandatory documents accordingly. We/I hereby declare that the information given above are true. If any of the above information is found to be wrong at any time, my tender will liable to be rejected.

**Name and Signature of Tenderer
along with Seal**

Notes-

Tender No.: All-EL-MD-IQG-Madar-T-22

1. In case of newly formed partnership firm, the credentials of individual partners from previous propriety firm(s) or dissolved previous partnership firm(s) or split previous partnership firm(s), shall be considered only to the extent of their share in previous entity on the date of dissolution / split and their share in newly formed partnership firm. For example, a partner A had 30% share in previous entity and his share in present partnership firm is 20%. In the present tender under consideration, the credentials of partner A will be considered to the extent of 0.3×0.2 value of the work done in the previous entity. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.
2. Any partner in a partnership firm cannot use or claim his credentials in any other firm without leaving the partnership firm i.e., In a partnership firm of A&B partners, A or B partner cannot use credentials of partnership firm of A&B partners in any other partnership firm or propriety firm without leaving partnership firm of A&B partners.
3. In case a partner in a partnership firm is replaced due to succession as per succession law, the proportion of credentials of the previous partner will be passed on to the successor.
4. In a partnership firm "AB" of A&B partners, in case A also works as propriety firm "P" or partner in some other partnership firm "AX", credentials of A in propriety firm "P" or in other partnership firm "AX" earned after the date of becoming a partner of the firm AB shall not be added in partnership firm AB.
5. In case a tenderer is LLP, the credentials of tenderer shall be worked out on above lines similar to a partnership firm.

Tender No.: AII-EL-MD-IQG-Madar-T-22

Annexure XXXII

(Para 16.2.3 (d) of General Instructions)
(Explanation for clause 10 – eligibility criteria, of the GCC APRIL-2022)

DECLARATION BY AN EXISTING PARTNERSHIP FIRM/ LLP FIRM

(Mandatory if tenderer is an Existing Partnership Firm/ LLP Firm)

(Fill the relevant para (1.1, 1.2 & 1.3) and strike off the para which is not relevant under Partnership Firm)

1.0 I S/o Shri, the authorized signatory of Partnership Firm/ LLP Firm M/s do hereby solemnly affirm and declare as under :

1.1 That, we are an existing Partnership Firm/ LLP Firm in the name and style of

M/s....., since..... (MM/YY), having GST Registration No....., PAN/TAN No..... There has been no change in the Partner(s) of our firm during last 07 (seven) years ending last day of the month previous to the one in which tender is invited.

OR

1.2 That, we are an existing Partnership Firm/ LLP Firm in the name and style of

M/s....., Since..... (MM/YY), having GST Registration No....., PAN / TAN No. Following of our partner(s) has/have quit the Partnership firm/ LLP Firm during last 07 (seven) years ending last day of the month previous to the one in which tender is invited, with details as under :

S.No.	Name of quitting Partner(s)	Share of Partner(s) who has/have quitted.	Date of (MM/YY) quitting

AND / OR

1.3 That, we are an existing Partnership Firm/ LLP Firm in the name and style of

M/s....., since..... (MM/YY), having GST Registration No....., PAN/TAN No..... Following partner(s) has/have joined our Partnership Firm/ LLP Firm during last 07 (seven) years ending last day of the month previous to the one in which tender is invited, with details as under :-

S.No.	Name of Joining Partner(s)	Share of joining Partner(s)	
		In the present firm	In the previous firm from where he/they has/have quit and joined the present firm

1.4 In case of Para 1.2 and 1.3, following documents as applicable are required to be submitted along with bid:-

- (1) Details of previous Propriety firm / Partnership Firm/ LLP firm as per annexure I.
- (2) A copy of previous partnership Firm (Notarized or duly registered with the Registrar) (3) Affidavit as per proforma given of Annexure –IX for previous Propriety firm (duly executed on stamp paper and notarized).
- (4) Copy of previous LLP agreement and certificate of incorporation.
- (5) Dissolution deed/ splitting deed of the previous partnership deed or LLP agreement (in case of dissolution of previous partnership firm/ LLP firm)
- (6) Proof of surrender of previous PAN no (in case of dissolution of previous partnership firm, LLP firm or propriety firm)
- (7) Documents for the technical, financial criteria, bid capacity as claimed w.r.t. such partner(s) joining the new/ existing partnership firm, as per para 16.1 (c), (d), (f), (g), (k) above.

Declaration by the Tenderer :-

We/ I have read the content of this declaration & respective conditions of the GCC regarding assessment of the eligibility of our partnership firm/ LLP firm and have/ has enclosed all the required mandatory documents

Tender No.: AII-EL-MD-IQG-Madar-T-22

accordingly. We/I hereby declare that the information given above are true. If any of the above information is found to be wrong at any time, my tender will liable to be rejected.

Name and Signature of Tenderer

Along
with seal.

1. In case of existing partnership firm, if any one or more partners quit the partnership firm, the credentials of remaining partnership firm shall be re-worked out i.e., the quitting partner(s) shall take away his credentials to the extent of his share on the date of quitting the partnership firm (e.g. in a partnership firm of partners A, B & C having share 30%, 30% & 40% respectively and credentials of Rs 10 crore; in case partner C quits the firm, the credentials of this partnership firm shall remain as Rs 6 crore). For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.
2. In case of existing partnership firm if any other partner(s) joins the firm, the credentials of partnership firm shall get enhanced to the extent of credentials of newly added partner(s) on the same principles as mentioned in item 6 above. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deeds, dissolution/splitting deeds and proof of surrender of PAN No.(s) in case of dissolution of partnership firm etc.
3. Any partner in a partnership firm cannot use or claim his credentials in any other firm without leaving the partnership firm i.e., In a partnership firm of A&B partners, A or B partner cannot use credentials of partnership firm of A&B partners in any other partnership firm or propriety firm without leaving partnership firm of A&B partners.
4. In case a partner in a partnership firm is replaced due to succession as per succession law, the proportion of credentials of the previous partner will be passed on to the successor.
5. If the percentage share among partners of a partnership firm is changed, but the partners remain the same, the credentials of the firm before such modification in the share will continue to be considered for the firm as it is without any change in their value. Further, in case a partner of partnership firm retires without taking away any credentials from the firm, the credentials of partnership firm shall remain the same as it is without any change in their value.
6. In a partnership firm "AB" of A&B partners, in case A also works as propriety firm "P" or partner in some other partnership firm "AX", credentials of A in propriety firm "P" or in other partnership firm "AX" earned after the date of becoming a partner of the firm AB shall not be added in partnership firm AB.
7. In case a tenderer is LLP, the credentials of tenderer shall be worked out on above lines similar to a partnership firm.

Tender No.: All-EL-MD-IQG-Madar-T-22

Annexure XXXIII

(Para 16.2.4 (e) of General Instructions)

(Explanation for clause 10 – eligibility criteria, of the GCC APRIL-2022)

DECLARATION REGARDING CONSTITUTION OF EXISTING/ NEW COMPANY

(Mandatory if tenderer is an Existing / New Company)

(Fill the relevant para (1.1, 1.2 & 1.3) and strike off the para which is not relevant under Partnership Firm)

1.0 I S/o Shri, the authorized signatory of the Company M/s do hereby solemnly affirm and declare as under :

1.1 That, we are an existing Company working in the name and style of M

Registration No....., PAN/TAN No..... There has been no change in the constitution of our Company during last 07 (seven) years ending last day of the month previous to the one in which tender is invited.

OR

1.2 That, we are an existing Company working in the name and style of Registration No....., PAN / TAN No. Following Company (ies) merged in the Company during last 07 (seven) years ending last day of the month previous to the one in which tender is invited, with details as under:

S.No.	Name of quitting Partner(s)	Share of Partner(s) who has/have quitted.	Date of (MM/YY) quitting

1.3 In case of Para 1.2, following documents as applicable are required to be submitted along with bid:-

- (1) Details of company getting merged as per annexure I
- (2) Copy of Memorandum of Association/ Articles of Association of the Company getting merged
- (3) Copy of certificate of incorporation of previous company getting Merged.
- (4) Resolution by the Board of Directors for the Merger of the company(s) with the tenderer
- (5) Proof of surrender of previous PAN no
- (6) Documents for the technical, financial criteria, bid capacity as claimed w.r.t. such Company(s) joining the new/ existing Company, as per para 16.1 (c), (d), (f), (g), (k) above.

Declaration by the Tenderer :-

We/ I have read the content of this declaration & respective conditions of the GCC regarding assessment of the eligibility of our partnership firm/ LLP firm and have/ has enclosed all the required mandatory documents accordingly. We/I hereby declare that the information given above are true. If any of the above information is found to be wrong at any time, my tender will liable to be rejected.

Name and Signature of Tenderer
Along with seal.

Notes- In case company A is merged with company B, then company B would get the credentials of company A also.

clause 10.1 (b) (iii) of part I and clause 7 of part II of the GCC APRIL-2022)

DFCCIL

CONTRACT AGREEMENT OF SECONDARY COMPONENT OF THE WORKS

CONTRACT AGREEMENT NO. -----DATED-----

ARTICLE OF AGREEMENT made on this day _____ in the year Two Thousand and between the(the tenderer), having its office at ----- submitting offer for the tender no.....for the work..... hereinafter called the 'Main Contractor' of the first and part and ----- Name of Sub Contractor ----- hereinafter called the 'Sub Contractor' of the second part having its office at ----- with GSTIN ----- First part, second part collectively hereinafter called the 'Parties'.

WHEREAS the contractor has agreed with the DFCCIL for performance of the works----- set forth in for the componentdetailed in schedulefor the total cost of Rs.....of the tender schedule of the tender no.....The Standard General Condition of Contract corrected up to latest correction slips and the Specifications of the -----DFCCIL corrected up to latest correction slips and the Specifications of the -----DFCCIL, corrected up to latest correction slips and the Special Condition and Specifications, if any, and in conformity with the Drawings here-into annexed and whereas the performance of the said works is an act in which the public are interested.

NOW THIS INDENTURE WITNESSETH that in consideration to payments to be made by the DFCCIL, the Contractor will duly perform the said works in the said schedule set forth and shall execute the same with great promptness, care and accuracy in a workman like manner to the satisfaction of the DFCCIL and will complete the same in accordance with the said specifications and said drawings and said conditions of contracts on or before the ----- day of -----20--- and will maintain the said work for a period of ----- calendar months from the certified date of their completion and will observe, fulfill and keep all the conditions there is mentioned (which shall be deemed and taken to be part of this contract as if the same have been fully set forth herein) AND the DFCCIL both hereby agree that if the Contractor shall duly perform the said works in the manner aforesaid and observe and keep the said terms and conditions, the DFCCIL will pay or cause to be paid to the contractor for the said works on the final completion thereof the amount due in respect thereof at the rates specified in the Schedule hereto annexed.

All the communication in relation to the Contract Agreement would only be between Party hereto of first part and second part. No claim of Contractor, whatsoever on this account shall be entertained by the DFCCIL and this shall be deemed as 'excepted matter' (matter not arbitrable). The permitted subcontracting of work by the Contractor shall not establish any contractual relationship between the sub-contractor and the DFCCIL and shall not relieve the Contractor of any responsibility under the Contract. The Contractor shall indemnify DFCCIL against any claim of subcontractor. The Contractor shall endeavor to resolve all matters and payments amicably and speedily with the subcontractor

On receipt of approval from CPM/CGM, Contractor shall enter into a formal agreement legally enforceable in Court of Law with subcontractor and submit a copy of the same to the Engineer.

In addition to issuance of work experience certificate to Contractor, the Engineer, when, based on documents, is satisfied that subcontracted work has been carried out by subcontractor, shall issue work experience certificate to the subcontractor also for the portion of work subcontracted and successfully completed by the sub-contractor

The responsibility of successful completion of work by subcontractor shall lie with Contractor. Subcontracting will in no way relieve the Contractor to execute the work as per terms of the Contract Further, in case Engineer is of the view that subcontractor's performance is not satisfactory, he may instruct the Contractor to remove the subcontractor from the work and Contractor has to comply with the above instructions with due promptness. Contractor shall intimate the actual date of discontinuation of subcontract to Engineer. Once having entered into above arrangement, Contractor shall discontinue such arrangement, if he intends to do so at his own or on the instructions of DFCCIL, with prior intimation to CPM/CGM.

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For and on behalf of the Contractor

Name of Authorized Signatory

Witness of the Signature

1.

2.

Address :-----

Signature of Sub Contractor

Name of Authorized Signatory

Witnesses of the Signature

1.....

2.....

Address:.....

(Seal and signature of Notary Public)

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Agreement is being executed. The Power of Attorney shall duly registered with registrar or notarized.

Tender No.: All-EL-MD-IQG-Madar-T-22

Tender Form (First Sheet), Annexure-I, Part I of GCC shall be read as under:

Annexure XXXV

DFCCIL

TENDER FORM (First Sheet)

Tender No. _____

Name of Work _____

To

The President of India

Acting through the..... Railway/DFCCIL

I/We have read the various conditions to tender attached hereto and agree to abide by the said conditions. I/We also agree to keep this offer open for acceptance for a period of days from the date fixed for closing of the tender and in default thereof,

I/We will be liable for forfeiture of my/our "Bid Security". I/We offer to do the work for.....

Railway, at the rates quoted in the attached bill(s) of quantities and hereby bind

Myself /ourselves to complete the work in all respects within..... date of issue of letter of acceptance of the tender.

2. I/We also hereby agree to abide by the Indian Railways Standard General Conditions of Contract, with all correction slips upto-date and to carry out the work according to the Special Conditions of Contract and Specifications of materials and works as laid down by Railway in the annexed Special Conditions/Specifications, Standard Schedule of Rates (SSOR) with all correction slips up-to-date for the present contract.

3. A Bid Security of ₹ _____ has already been deposited online/ submitted as Bank Guarantee bond. Full value of the Bid Security shall stand forfeited without prejudice to any other right or remedies in case my/our Tender is accepted and if:

(a) I/We do not submit the Performance Guarantee within the time specified in the Tender document.

(b) I/We do not execute the contract documents within seven days after receipt of notice issued by the Railway that such documents are ready; and

(c) I/We do not commence the work within fifteen days after receipt of orders to that effect.

4. (a) I/We am/are a Startup firm registered by..... Department of industrial Policy and Promotion (DIPP) and my registration number is valid up to..... (Copy enclosed) and hence exempted from submission of Bid Security.

5. We are a Labour Cooperative Society and our Registration No. iswithand hence required to deposit only 50% of Bid Security.

6. Until a formal agreement is prepared and executed, acceptance of this tender shall constitute a binding contract between us subject to modifications, as may be mutually agreed to between us and indicated in the letter of acceptance of my/our offer for this work.

Signature of Tenderer(s) _____

Date _____

Address of the Tenderer(s) _____

Reference Para 62.(I)

Registered Acknowledgement Due/Standard Correspondence through IR-WCMS/Email on
registered IREPS Email

PROFORMA OF TERMINATION NOTICE

.....DFCCIL

(Without Prejudice)

No.

To

Dated_____

M/s_____

Dear Sir,

Contract Agreement No._____

In connection with_____

Forty-eight hours (48 hrs.) notice was given to you under this office letter of even no., Dated..... but you have taken no action to commence the work/show adequate progress of the work.

Since the period of 48 hours' notice has already expired the above conduct stands rescinded in terms of Clause 62 of the Standard General Conditions of Contract and the balance work under this contract will be carried out independently without your participation. Your participation as well as participation of every member/partner in any manner as an individual or a partnership firm/JV is hereby debarred from participation in the tender for executing the balance work and your Security Deposit shall be forfeited, and Performance Guarantee shall also be encashed.

The Final measurements of work executed by you against the said contract will be taken/started on..... athrs. at site. The measurement will be continued till all the measurement are taken. You are advised to be present at site on the above-mentioned date

and time to witness the measurements, otherwise measurements will be taken ex-parte and thereafter, variation (addendum & corrigendum) & final bill of work executed till date of termination based on ex-parte final measurements shall also be processed ex-parte.

Your faithfully

For and on behalf of the President of India

Reference Para 16.(4)

Insurance Surety Bond for Performance Security

Name of the issuer of surety bond:

President of India,

Acting

through.....,

..... Railway/DFCCIL.

Date.....

Surety Bond No: _____ Issue Date: _____

Amount of Bond: _____ Expiry Date: _____

WHEREAS, In consideration of the President of India acting through (Designation & address of contract signing authority),.....Railway/DFCCIL,..... (hereinafter called "The DFCCIL") having accepted the bid of M/S XXXXX hereinafter called the contractor, for the work of XXXXXXXX,' under invitation for bids No XXXXXXXX, Dated XXXXX, Vide Letter of Acceptance No. _____

AND

WHEREAS, the contractor is required to furnish Performance Security for the sum of ₹. XXXX(Rupees XXXX Only), in the form of Surety Bond, being a condition precedent to the signing of the contract agreement.

SB No:

Date:

WHEREAS, we, ----- (*Name of insurance company*) hereinafter called the Surety, acting through [Designation(s) of the authorised person of the Surety], have, at the request of the M/s. XXXX contractor, agreed to give Bond for performance security/ additional performance security as hereinafter contained:

1. KNOW ALL MEN by these present that I/We, the undersigned [Insert name(s) of authorized representatives of the Surety], being fully authorized to sign and incur obligations for and on behalf of the Surety, confirm that the Surety, hereby, unconditionally and irrevocably Bond to pay the Railway/DFCCIL the full amount in the sum of XXXX(Rupees .XXXX Only) as above stated.
2. The Surety undertakes to immediately pay on presentation of demand by the Railway/DFCCIL any amount up to and including aforementioned full amount without any demur, reservation or recourse. Any such demand made by the Railway on the Surety shall be final, conclusive and binding, absolute and unequivocal notwithstanding any disputes raised/pending before any Court tribunal, arbitration or any authority or any threatened litigation by the Bidder or Bank.
3. On payment of any amount less than aforementioned full amount, as per demand of the Railway/DFCCIL, the Bond shall remain valid for the balance amount i.e. the aforementioned full amount less the payment made to the Railway/DFCCIL.
4. The Surety shall pay the amount as demanded immediately on presentation of the demand by Railway without any reference to the contractor and without the Railway being required to show grounds or give reasons for its demand or the amount demanded.
5. The Surety Bond shall be unconditional and irrevocable.
6. The Bond hereinbefore shall not be affected by any change in the constitution of the Surety or in the constitution of the Contractor.
7. The Surety agrees that no change

END OF DOCUMENT