



Tender No.: DFC-BRC-EL-OHE-MT/ 503/156

Name of Work: Maintenance of 2x25 kV High Rise Over Head Equipment on New Makarpura – New Bhestan section of DFCCIL including New Udhana, New Gothangam, New Sanjali connectivity to Indian Railways for a period of 24 (Twenty-four) months under CGM Vadodara Unit.

**Single Packet
OPEN E-TENDER**

**TENDER DOCUMENT
(NOT TRANSFERABLE)
(Oct-2023)**

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

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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.

PART-I

NOTICE INVITING TENDER

NOTICE INVITING TENDER (NIT)

Chief General Manager /Vadodara for and on behalf of DFCCIL invites e-tenders on Single packet system on prescribed forms from firms/Companies having requisite experience and financial capacity for execution of the following work: -

S. N	E-Tender No.	DFC-BRC-EL-GN-MT/ 503/156
1	Name of Work	Maintenance of 2x25 kV High Rise Over Head Equipment on New Makarpura – New Bhestan section of DFCCIL including New Udhana, New Gothangam, New Sanjali connectivity to Indian Railways for a period of 24 (Twenty-four) months under CGM Vadodara Unit.
2	Estimated Cost of Work	Rs. 3,19,18,362.47 (Rs. Three Crore Nineteen Lakhs Eighteen Thousand Three Hundred sixty-two and Paise forty-seven Only excluding of GST (GST will be paid Extra)
3	Completion Period	Total 24 (Twenty-Four) Months
4	Tender Fee	NIL
5	Earnest Money	Rs. 3,09,600/- (Rupees Three Lakh Nine Thousand Six Hundred Only). (To be paid online through payment gateway provided at www.ireps.gov.in .)
6	Availability of Bid documents	From 13.10.2023 on www.ireps.gov.in
7	Download bid documents up to	15:00 Hrs. of 17.11.2023 on www.ireps.gov.in
8	Last date & time of online receipt of bid	15:00 Hrs. of 17.11.2023 on www.ireps.gov.in
9	Date and time of Online opening of bid	15.30 Hrs. of 17.11.2023 on www.ireps.gov.in
10	Validity of offer	60 Days from the date of opening of tender.
11	Security Deposit	5% of Contract value
12	Performance Guarantee Bank	Performance Guarantee (PG) have to be submitted within 21 (twenty-one) days from the date of issue of Letter of Acceptance (LOA), amounting to Five percent (5%) of the contract value in the form as given in clause 16.4 of GCC Part-2
13	Defect Liability Period	03 Months.
14	Address of Communication	Office of the Chief General Manager, Dedicated Freight Corridor Corporation of India Ltd.4 th Floor, Block A, Narmada Nehar Bhavan, Chhani Jakat Naka, Vadodara, Website: www.dfccil.com

15	Help Desk for E-Tendering	For any clarification, help and registration for E-Tendering & matter relating to Digital Signature, contact at Help desk of www.ireps.gov.in and phone No.-011-23761525
16	Availability of Tender Documents	The Tender documents can be downloaded from www.ireps.gov.in Tenderer who wishes to view free Notification and Tender Documents can visit www.ireps.gov.in DFCCIL may issue Addendum (s)/Corrigendum (s) to the Tender document, if any, which shall be issued at least 15 days in advance of date of opening of tender and placed on the website www.ireps.gov.in only.

Note-1. Tender documents should be downloaded from the website address <https://www.ireps.gov.in>. Payment of Tender Document fee in respect of e-tendering, should accept through net banking or payment gateway only. 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. Any tender received without Bid Security or cost of tender documents in the form as specified in the tender documents shall not be considered and shall be summarily rejected.

2. Eligibility shall be assessed on applicants, fulfilling the technical capability and competence as well as for financial and organizational resources as specified in clause no. 10 of part III of Preamble & General Instruction to tenders.
3. The Offer shall be valid **for 60 days** from the date of opening of the tender, and extended further if required from time to time. The Contractor cannot withdraw their offer within the period of validity/extended validity The Bid Security of such tenderers shall be forfeited.
4. Notice Inviting Tender (NIT), Tender Document and Corrigendum/Addendum if any, will be posted on the E Tendering website www.ireps.gov.in Tenderers are advised to complete all submission related work well before Time and Date for Submission of Tender Online. Any request for modification in the time/date of submission of tender due to tenderer's failure to submit his offer, will not be accepted. No request for extension of the Tender Due Date shall be considered.
5. The tender documents shall be submitted in online mode only through website www.ireps.gov.in. Detailed credential as per the requirement of eligibility criteria and all Schedule are to be submitted in online mode.
6. No tender document will be available offline. Downloading tender documents online and submission of tender online is mandatory for this tender.
7. Any further addendum/Corrigendum for this tender will be posted in DFCCIL tendering portal website <https://www.ireps.gov.in> only. Interested bidders are advised to check website regularly for any Addendum/ Corrigendum.

8. 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.
9. DFCCIL reserves the right to pre-qualify the bidder(s) provisionally based on the documents submitted by them, subject to their final verification. In the event of any document being found false, the provisional qualification shall stand withdrawn, and the next lower bidder shall automatically come to the position of such disqualified bidder. Action against such disqualified tenderers shall be taken as per above Clause No. 8 of Notice Inviting Tender.
10. Information required as per various Forms to tender document should be submitted by the tenderers without fail strictly as per formats.

**General Manager/Co-ord.
DFCCIL, Vadodara**

PART-II

**INSTRUCTIONS TO BIDDERS FOR ONLINE BIDDING &
CHECK LIST**

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 (www.ireps.gov.in), a Government of India Undertaking. Benefits to Suppliers/ service providers are outlined on the home page of the portal.

E-tendering site- <https://www.ireps.gov.in> / its link at www.dfccil.com (Help desk of IREPS: 011 -23761525). The tenderer/bidders must have Class-III Digital Signature Certificate & must be register on IREPS portal. Only registered tenderer/bidders can participate on e-Tendering. All relevant documents must be uploaded at the time of participating in e-Tendering.

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 these tender details of DFCCIL

DFCCIL Contact- 1	Sh. Chandra Sekhar Maddula
Telephone/Mobile No.	9725201226
E-mail ID	chandrasedkhar@dfcc.co.in

DFCCIL Contact- 2	Sh. V.K. Chaurasia
Telephone/Mobile No.	8511169024
E-mail ID	vkchaurasia@dfcc.co.in

DFCCIL Contact- 3	Sh. Deepak Kumar Gupta
Telephone/Mobile No.	9974440301
E-mail ID	deepakgupta11@dfcc.co.in

Name	CGM DFCCIL Vadodara
Bank account number	310601010040591
IFSC Code	UBIN0546836
Bank name	UNION BANK OF INDIA
Bank Branch	MOTI BAUGH – NEW DELHI

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.com. The tenderer who has 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.

B. Check list for Mandatory Documents: -

CHECK LIST			
CHECK LIST OF ITEMS TO BE COMPLIED BY TENDERER(S) BEFORE SUBMITTING THEIR TENDERS. THE TENDERER(S) SHALL ENSURE THAT THE FOLLOWING ARE COMPLIED BEFORE SUBMITTING THE TENDER DOCUMENT: -			
S. N	Clause in tender document	Documents	Done or not
1.	Para 1.8 of Part III page no. 13 & 191	Tender form (Annexure no. I)	
2.	Para 2.14 of Part-III- page no.16 & 194	Format for certificate to be submitted / uploaded by tenderer along with the tender documents (Annexure-V)	
3.	Para 5 of Part-III page no. 22 & 198	Bid security in accordance with Para 5 with Part –III of Preamble and General Instructions to Tenderers. (Bid security) bank guarantee bond from any scheduled commercial bank of India. (Annexure –VIA)	
4.	Para 10.1 of Part III page no. 25 & 235	Technical eligibility criteria details (Form no-2A)	
5.	Para 10.2 of Part III Page no. 27 & Annexure- VIB page no. 203	Annual contractual turnover data for the previous 3/4 years	
6.	Page no. 237	Applicant's party information form (Form no-2C)	
7.	Page no. 238	ECS/ NEFT / RTGS mandate form (Form no-3)	
8.	Page no. 240	Pre contract integrity pact (Form no-5)	
9	page no. 247	Anti-profiteering declaration to whomsoever it may concern (Form no-6)	
10.	Para- 4 Part-III- page no. 21	Certificate for provision for medium & small enterprises (MSE) (If applicable)	
11.	Para-14 of Part-III- page no. 31	The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / Company / Joint Venture (JV) / Registered Society / Registered Trust / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.	
12.	Para 11 of part III page no. 30	Relevant documents as per para 11 of part III of Preamble and General Instructions to Tenderers.	
13.	Para 10.1 (c) of Part-III- page no. 26	Electrical Contractor License (Copy of valid electrical License is enclosed)	
14.	Page No. 4	Scanned copy of proof of money deposited against Earnest money & Tender Document Cost.	
15.	-	GST Registration Certificate	
16.	All the Annexures & Forms properly filled up and relevant documents attached and indicated in Forms, (If applicable).		
17	Rates to be quoted on rate sheet online only		

PART - III

PREAMBLE & GENERAL INSTRUCTIONS TO TENDERERS

PREAMBLE & GENERAL INSTRUCTIONS TO TENDERERS

- 1.0** Dedicated Freight Corporation of India (DFCCIL) is a Public Sector Undertaking under the administrative control of Government of India (Ministry of Railways) for construction, maintenance and operation of the Dedicated Rail Freight Corridors. At present the company is undertaking construction of Eastern & Western corridors and has its corporate office at New Delhi and Field Units at various cities.

Ministry of Railways (MOR), Government of India has planned to construct Dedicated Freight Corridor (DFC) covering about 3338 route Kilometers on Eastern and Western Corridors. The coverage of Eastern Corridor is from Ludhiana to Dankuni and Western Corridor is planned from Jawaharlal Nehru Port, Mumbai to Rewari /Tughlakabad /Dadri near Delhi. There will be a linkage between two corridors at Dadri.

1.1 Dedicated Freight Corridor

Eastern DFC Route will be approximately 1839 Km long from Dankuni to Ludhiana via Dankuni – Asansole – Dhanbad – Gaya – Sonnagar - Mughalsarai - Allahabad - Kanpur - Tundla - Aligarh - Khurja - Bulandshahr – Meerut – Saharanpur – Ambala - Ludhiana.

Western DFC Route will be approximately 1520 Km long from Dadri to JNPT via Rewai – Iqbalgarh - Vadodara- JNPT.

Proposed alignment of DFC has been generally kept parallel to existing Indian Railway line except provision of detours at some stations where the existing yards /cities are congested. Level Crossings (LC's) are generally unsafe locations and also a congestion points for road/rail's users. These LCs are operational bottlenecks for Railways /DFCCIL in terms of loss in punctuality and reduction in line capacity. Construction of ROB(s)/ RUB(s) is financially and operationally beneficial apart from the fact that it improves the safety of Rail / Road users.

1.2 Scope of Work

On behalf of President of India, General Manager/Co-ord., Dedicated Freight Corridor Corporation of India Limited, 4th Floor, Block A, Narmada Nehar Bhavan, Chhani Jakat Naka, India herein after referred to as 'DFCCIL' is inviting e-tenders from Firms/ Companies/Joint Ventures having requisite experience and financial capacity for execution of the following work:

“Maintenance of 2x25 kV High Rise Over Head Equipment on New Makarpura – New Bhestan section of DFCCIL including New Udhana, New Gothangam, New Sanjali connectivity to Indian Railways for a period of 24 (Twenty-four) months under CGM Vadodara Unit”.

- 1.3 The tenderer shall be governed by General Conditions of Contract (GCC), Preamble and General Instructions to Tenderers (ITT) and Special Conditions of Contract (SCC). Wherever, there is a conflict in any condition between GCC and Special Conditions of Contract mentioned in the tender documents, the condition mentioned in Special Conditions of Contract will prevail. However, Engineer's decision in this connection shall be final and binding. Tender document contains General Conditions of Contract and Special Conditions of Contract specific to this work and shall be applicable in the contract.
- 1.4 **Location-** Works are to be executed under the jurisdiction of General Manager /DFCCIL/Vadodara Unit. However, DFCCIL reserves right to change the site of work anywhere in adjacent / adjoining area of the work, the contractor shall be bound to execute the work without any extra cost.
- 1.5 **Drawings for the Maintenance of 2x25 kV High Rise Over Head Equipment on New Makarpura – New Bhestan section of DFCCIL including New Udhana, New Gothangam, New Sanjali connectivity to Indian Railways for a period of 24 (Twenty-four) months under CGM Vadodara Unit are available in CGM office for guidance of the Tenderer. Maintenance manual will be provided to contractor for maintenance Schedule.**
- 1.6 Quantum of work and materials: The indicative schedule of quantities of various items of works is included in form no 1 of tender Annexures & Forms of the tender documents.
- 1.7 Schedule of Prices form no 1 of tender Annexures & Forms of BID DOCUMENTS lists out the Schedule of Prices for various items. Based on these, the total tender value has also been worked out.
- 1.8 **Instructions to Tenderers and Conditions of Tender:** The following documents form part of Tender / Contract:
- Tender Forms – First Sheet
 - Special Conditions (enclosed)
 - Bill(s) of quantities (enclosed)
 - Standard General Conditions of Contract and Standard Specifications (Works and Materials) of Indian DFCCIL/Railways as amended/corrected up to latest correction slips, copies of which can be seen in the office of Chief General Manager/ DFCCIL/Vadodara or obtained from the office of the Chief General Manager/ DFCCIL/Vadodara on payment of prescribed charges.
 - Standard Schedule of Rates (SSOR) as amended / corrected up to latest correction slips, copies of which can be seen in the office of Chief General Manager/ DFCCIL/Vadodara or obtained from the office of the Chief General Manager/ DFCCIL/Vadodara on payment of prescribed charges.

(As per Clause No. 1 of tender form 2nd sheet Annex. I Part-I of GCC

APRIL-2022, with up-to-date correction slip.)

1.9 Cost of Tender documents downloaded from internet

For submitting the tender, the Tender documents and Amendment(s), if any, is/are available on www.ireps.gov.in and the same can be downloaded and used as tender documents for submitting the offer. The cost of the tender document is indicated in NIT. The cost of the tender document shall be deposited through e-payment mode at www.ireps.gov.in only. In case, the cost of the tender document as detailed above is not deposited, tender will be summarily rejected.

1.10 Complete tender documents must be submitted online duly completed in all respect up to the scheduled date and time mentioned in the Notice Inviting E-Tender. In case the intended date for opening of tenders is declared a holiday, the tenders will be opened on the next working day at the same time. Any modified date and time for submission of tenders shall be uploaded on DFCCIL website www.dfccil.com and www.ireps.gov.in

2.1 **Form of Tender** - The Tender documents shall be in Single packets viz:- "containing All tender papers & Schedule of Prices. Detailed credentials as per the requirement of eligibility criteria and all tender papers including Summary of Prices and Schedule of Prices are to be submitted in "BID".

2.2 **Tender Bid** - The Tender Bid shall be submitted through online only on website www.ireps.gov.in as Eligibility/Qualifying element of the Tender Bid along with other documents mentioned in tender document.

2.3 **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.

2.4 **Two Packets System of Tendering (Not Applicable for this tender)**: With a view to assess the tenders technically without being influenced by the financial bids, 'Two Packets System of tendering' shall be adopted wherein tender documents provide for the same.

(As per Clause No. 7A of Part-I of GCC APRIL-2022, with up-to-date correction slip)

2.5 **Pre-Bid Conference (Not Applicable for this tender)**: Intenders having advertised value more than Rs 50 Crore or as mentioned in the tender document, DFCCIL/Railways shall conduct Pre-Bid Conference(s) with the prospective bidders.

(As per Clause No. 7B of Part-I of GCC APRIL-2022, with up-to-date correction slip)

2.6 **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.

(As per Clause No. 7D of Part-I of GCC APRIL-2022, with up-to-date correction slip)

- 2.7 Tenders containing erasures and / or alterations of tender documents are liable to be rejected. Any correction made by tender(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.)

- 2.8 All communication between the Employer and the tenderer shall be in writing. For the purposes of seeking clarification, the Employer's address is: **Chief General Manager, Dedicated Freight Corridor Corporation of India Limited**, 4th Floor, Block A, Narmada Nehar Bhavan, Chhani Jakat Naka, Vadodara 390024, **Gujarat, India**. Electronic mail address: deepakgupta11@dfcc.co.in and kcvankar@dfcc.co.in

- 2.9 **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.

(As per Clause No. 4 of Part-I of GCC APRIL-2022, with up-to-date correction slip)

- 2.10 Conditional tenders are liable to be rejected straightway. DFCCIL reserves the right to reject such tenders summarily without assigning any reasons whatsoever. In case tenderer/s still decides to have conditional offer, all such conditions are required to be listed separately and shall be supplemented by the details of exact financial implications, if applicable. DFCCIL will not take cognizance of any other conditions / variations from the tender stipulations mentioned at any other place in the tender documents.

- 2.11 The bidder shall submit only one bid in the capacity of an individual or sole proprietor, partnership firm or company. Violation of this condition is liable to disqualify the tender in which bidder has participated and Bid Security of all such tenderers shall stand forfeited.

- 2.12 **Withdrawal of Tender:** No tender can be withdrawn after scheduled date and time of submission and during tender validity period.

- 2.13 **Care in Submission of Tenders:**

- (a) (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 to accord with the provisions in Clause-37 of the Standard General Conditions of Contract for the completion of works to the entire satisfaction of the DFCCIL.
- (a)(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. Tenderers will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates.
- (a)(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 Contractor. The Contractor shall be responsible for deposition of applicable GST to the concerned authority.
- (a)(iv) In case the successful tenderer is not liable to be registered under CGST/IGST/UTGST/ SGST Act, the DFCCIL/Railways shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority.
- (b) When work is tendered for by a firm or company, the tender shall be signed by the individual legally authorized to enter into commitments on their behalf.
- (c) The DFCCIL/Railways \ 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.

(As per Clause No. 6 of Part-I of GCC APRIL-2022, with up-to-date correction slip)

- 2.14 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 certificate to be submitted by the bidder is enclosed as **Annexure-V**. Non submission of above 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/digitally signed by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document.

(As per Clause No. 6.1 of Part-I of GCC APRIL-2022, with up-to-date correction slip)

- 2.15 **Right of DFCCIL/Railways to Deal with Tenders:** The DFCCIL/Railways reserves the right of not to invite tenders for any of DFCCIL/Railways work or works or to invite open or limited tenders and when tenders are called to accept a tender in whole or in part or reject any tender or all tenders without assigning reasons for any such action. In case if tender is accepted in part by DFCCIL administration, Letter of Acceptance shall be issued as counter offer to the Tenderer, which shall be subject to acceptance by the Tenderer.
(As per Clause No. 7 of Part-I of GCC APRIL-2022, with up-to-date correction slip)

3.0 Opening of Tender:

- (a) Tender will be opened at the scheduled date and time mentioned in the Notice Inviting E-Tender.
- (b) After the opening of tender documents of all the tenderers, these bids shall be scrutinized and analyzed. If found necessary by the Employer, the tenderers shall be asked to furnish clarifications and the Employer may also hold discussions with the tenderers after giving due notice. The names of the tenderers whose bid are considered complete and meet eligibility criteria shall be short listed.
- (c) The earnest money of non-qualifying tenderers will be returned back within a reasonable period.

3.1 Preliminary examination of bids

- a) The DFCCIL shall examine the bids to determine whether they are complete, whether any computational errors have been made, whether the documents have been properly signed and whether the bids are generally in order.
- b) Arithmetical errors shall be rectified on the following basis if found. If there is a discrepancy between the unit price and the total price, which is obtained by multiplying the unit price and quantity, or between subtotals and the total price, the unit or subtotal price shall prevail, and the total price shall be corrected.
- c) The rates should be quoted in figures as well as in words. If there is variation between rates quoted in figures and in words, the rate quoted in words shall be taken as correct. If more than one or improper rates are tendered for the same item, the tender is liable to be rejected.
- d) Prior to the detailed evaluation, DFCCIL shall determine whether each bid is of acceptable quality, is generally complete and is substantially responsive to the bidding documents. For purposes of this determination, a substantially responsive bid is one that conforms to all the terms, conditions and specifications of the bidding documents without material deviations, objections, conditionality or reservation. A material deviation, objections, conditionality or reservation is one:

- 3.2 Evaluation and comparison of tenders In case of open tenders, bids, which are determined as substantially responsive, shall be evaluated based on criteria as given in Eligibility Criteria” and as given in Notice inviting E - Tender. The tenderer must submit all necessary authentic data with necessary supporting certificates of the various items of evaluation criteria failing which his tender is liable to be rejected.

- 3.3 Clarification of Bids:** To assist in the examination, evaluation & comparison and pre-qualification 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 entertained or considered. The DFCCIL request for clarification and the response of the bidder in this regard shall be in writing. However, if a Bidder does not provide clarification of its bid by the date and time communicated in the DFCCIL request for clarification, the bid shall be evaluated as per the documents submitted along with the bid.

(As per Clause No. 7E of Part-I of GCC APRIL-2022, with up-to-date correction slip)

- 3.4 Validity of Tender:** - Tenderer shall keep his offer open for a minimum period of 60 days from the date of opening of the tender or as mentioned in the Tender Notice.

3.5 Tenderer's Address

The tenderer should state in the tender his postal address legibly and clearly. Any communication sent in time, to the tenderer by post at his said address shall be deemed to have reached the tenderer duly and in time. Important documents should be sent by registered post.

3.6 Right of DFCCIL to Deal with Tenders

- (a) The DFCCIL reserves the right of not to invite tenders for any of DFCCIL work or works or to invite open or limited tenders and when tenders are called to accept a tender in whole or in part or to reject any tender or all tenders without assigning reasons for any such action.
- (b) 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 no tenderer(s) shall demand any explanation for the cause of rejection of his/their tender nor the DFCCIL undertake to assign reasons for declining to consider or reject any particular tender or tenders.

- 3.7** The entire work is required to be completed in all respects within 24 months from the date of issue of the acceptance letter. Time is the essence of contract. The contractor shall be required to maintain steady and regular progress to the satisfaction of the Engineer to ensure that the work will be completed in all respects within the stipulated time.

- 3.8** If the Tenderer/s deliberately gives any wrong information about credentials/documents in his/ their tenders and thereby create(s) circumstances for acceptance of his/their tender, DFCCIL reserves the right to reject such tender at any stage, besides, shall suspend business with such tenderer. The EMD of such tenderers shall also be forfeited.

- 3.9** Employer not bound to accept any tender: The employer shall not be bound

to accept the lowest or any tender or to assign any reason for non-acceptance or rejection of a tender. The employer reserves the right to accept any tender in respect of the whole or any portion of the work specified in the tender papers or to reduce the work or to accept any tender for less than the tendered quantities without assigning any reason whatsoever.

- 3.10 Negotiation: Should DFCCIL decide to negotiate with a view to bring down the rates, the tenderer called for negotiations should furnish the following form of declaration before commencement of negotiations? "I. do declare that in the event of failure of contemplated negotiations relating to Tender No..... dated my original tender shall remain open for acceptance on its original terms and conditions".
- 3.11 **Site Inspection:** Tenderers are requested to inspect the site and carry out careful examination to satisfy them as to the nature of work involved and facilities available at the site. They should note carefully all the existing structures and those under construction through other agencies. They should also study the suitability of utilizing the different equipment and the machinery that they intend to use for the execution of the work. The tenderers should also select suitable sites for the purpose of locating their store yard, laboratory, ISMD, Tower Wagon Shed etc., and satisfy themselves with regard to the feasibility of transporting the material etc. from the yard to the final site of placement etc.
- 3.12 **Canvassing:** No tenderer is permitted to canvass to DFCCIL on any matter relating to this tender. Any tenderer found doing so may be disqualified and his bid may be rejected.
- 3.13 **Award of Contract**
1. DFCCIL shall notify the successful tenderer in writing by a Registered Letter/Courier/Speed Post or through bearer that his tender has been accepted.
 2. Letter of Acceptance after it is signed by the Contractor in token of his acceptance shall constitute a legal and binding contract between DFCCIL and the contractor till such time the contract agreement is signed.
- 3.14 **Security Deposit on Acceptance of Tender:**
- The security deposit / rate of recovery / mode of recovery on acceptance of tender shall be as per the Para 16(1) to 16(3) Of General Conditions of Contract (GCC).
- 3.15 **Execution of Contract Document:** The Tenderer whose tender is accepted shall be required to appear in person at the office of Chief General Manager, Dedicated Freight Corridor Corporation of India Limited, 4th Floor, Block A, Narmada Nehar Bhavan, Channi Jakat Naka, Vadodara, as the case may be, or if tenderer is a firm or corporation, a duly authorized representative shall appear (there would be no need for appear in person if agreement is signed

digitally) and execute the contract agreement within seven days of notice from DFCCIL that the Contract Agreement is ready. Failure to do so shall constitute a breach of the agreement affected by the acceptance of the tender. The Contract Agreement shall be entered into by DFCCIL only after submission of valid Performance Guarantee by the Contractor. In such cases the DFCCIL/Railways 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 Bid Security 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.

(As per Clause No. 8 of Part-I of GCC APRIL-2022, with up-to-date correction slip)

3.16 Form of Contract Document: Every contract shall be complete in respect of the document it shall so constitute. Not less than 2 copies of the contract document shall be signed by the competent authority and the Contractor and one copy given to the Contractor (there would be no need of signing two copies if agreement is signed digitally)

(a) For contracts for specific works, the contract document required to be executed by the tenderer whose tender is accepted shall be an agreement as per specimen form Annexure- IV.

(As per Clause No. 9 & 9B of Part-I of GCC APRIL-2022, with up-to-date correction slip)

3.17 Understanding and Amendments of Tender Documents:

1. The bidder must own all responsibilities and bear all cost for obtaining all the information including risks, contingencies & other circumstances in execution of the work. It shall also carefully read and understand all its obligations & liabilities given in tender documents.
2. The bidder is advised to visit and examine the site where the work is to be executed and its surroundings or other areas as deemed fit by the bidder and should obtain at his own cost all information that may be necessary for preparing the bid and execution of the contract. The cost It is a condition of the tender that the tenderer is deemed to have visited the site and satisfied himself with all the conditions prevailing including any difficulties for executing the work.
3. At any time prior to the deadline for submission of bids, DFCCIL may for any reason whether at its own initiative or in response to any request by any prospective bidder amend the bidding documents by issuing Amendment, which shall be part of the Tender documents.
4. DFCCIL may at its discretion extend the deadline for submission of the bids at any time before the time of submission of the bids.

4.0 Make in India Policy: 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.

(As per Clause No. 7C of Part-I of GCC APRIL-2022, with up-to-date correction slip)

- 4.1 Provision for medium & small enterprises (MSE): As mandated by Railway Board Letter No. 2010/RS (G)/363/1 dated 05.07.2012 (RBS No. 4/2012), in compliance to public procurement policy, following provisions are included for Medium & Small Enterprises (MSE) in the tender document:
1. Tender sets shall be provided free of cost to MSEs registered with the listed agencies for the item tendered.
 2. MSEs registered with the listed agencies for the item tendered will be exempted from payment of Earnest Money.
 3. (I) MSEs who are interested in availing themselves of these benefits will enclose with their offer the proof of their being MSE registered with any of the agencies mentioned in the notification of Ministry of MSME indicated below:
 - (i) District industries Centers
 - (ii) Khadi and Village Industries Commission
 - (iii) Khadi and Village Industries Board
 - (iv) Coir Board
 - (v) National Small Industries Corporation
 - (vi) Directorate of Handicraft and Handloom
 - (vii) Any other body specified by Ministry of MSME.
- (II) The MSEs must also indicate the terminal validity date of their registration.
- Falling (I) & (II) above, such offers will not be liable for consideration of benefits detailed in MSE notification of Government of India dated 23.03.2012.
4. Definition of MSEs owned by SC/ST is as give below:
 - (i) In case of proprietary MSE, proprietors (s) shall be SC/ST.
 - (ii) In case of partnership MSE, the SC/ST partners shall be holding at least 51% shares in the unit.
 - (iii) In case of Private Limited Companies at least 51% share shall be held by SC/ST promoters.
 5. All bidders registered under Micro, Small and Medium Enterprises (MSMEs) shall have to satisfy the eligibility criteria at par with other bidders. There shall not be any relaxation in eligibility criteria/tender process or other tender requirements and L-1 price.
 6. The above facilities shall not be applicable for the items for which they are not registered.
 7. The tenderer (s) shall submit copy of current and valid MSMEs registration certificate inclusive of all the pages showing the category of entrepreneur whether the registered firm is owned by General or SC/ST entrepreneurs, monetary limit of their registration for the items tendered to avail the benefits under the Policy. The MSMEs shall also submit a copy "Entrepreneur's Memorandum (Part-II)" of the concerned district Centre where the unit is established.
 8. Registration of Udyog Aadhar Memorandum (UAM): All Micro, Small and Medium Enterprises (MSMEs) bidders are required to declare UAM

Number on CPPP / <https://www.ireps.gov.in> failing which such bidders will not be able to enjoy the benefits as per Public Procurement Policy for tenders invited electronically through CPPP/ <https://www.ireps.gov.in>.

5. Bid Security:

- (1) (a) The tenderer shall be required to submit the Bid Security 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. The Bid Security shall be as under:

Value of the Work	Bid Security
For works estimated to cost up to ₹ 1 crore	2% of the estimated cost of the work
For works estimated to cost more than ₹ 1 crore	₹ 2 lakh plus ½% (half percent) of the excess of the estimated cost of work beyond ₹ 1 crore subject to a maximum of ₹ 1 crore

Note:

- (i) The Bid Security shall be rounded off to the nearest ₹100. This Bid Security shall be applicable for all modes of tendering.
- (ii) Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' shall be exempted from payment of Bid Security detailed above.
- (iii) Labour Cooperative Societies shall submit only 50% of above Bid Security detailed above.
- (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 resile 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/Railways.
- (c) If his tender is accepted, this Bid Security mentioned in sub para (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 Bid Security of other Tenderers shall, save as herein before provided, be returned to them, but the DFCCIL/Railways shall not be responsible for any loss or depreciation that may happen thereto while in their possession, nor be liable to pay interest thereon.
- (2) 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-VIA** and shall be valid for a period of 90 days beyond the bid validity period.
- (3) **In case, submission of Bid Security in the form of Bank Guarantee, following shall be ensured:**

- i. A scanned copy of the Bank Guarantee shall be uploaded on e-Procurement Portal (IREPS) while applying to the tender.
- ii. 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.
- 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.
- iv. The Tender Security shall remain valid for a period of 90 days beyond the validity period for the Tender.
- 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
- 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.
- vii. The envelope shall be addressed to the officer and address as mentioned in the tender document.
- viii. If the envelope is not sealed and marked as instructed above, the Authority 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.

(As per Clause No. 5 of Part-I of GCC APRIL-2022, with up-to-date correction slip)

6. (a) Subject to exemptions provided under para 5(1) (a) of Part-III (ITT) of this document, the tender must be accompanied by a Bid Security as mentioned in tender documents, failing which the tender shall be summarily rejected.
- (b) The Tenderer(s) shall keep the offer open for a minimum period of 60 days (in case of two packet system of tendering 90days) from the date of closing of the Tender. It is understood that the tender documents have been issued to the Tenderer(s) and the Tenderer(s), is / are permitted to tender in consideration of the stipulation on his / their part that after submitting his / their tender subject to the period being extended further, if required by mutual agreement from time to time, he will not resile from his offer or modify the terms and conditions thereof in a manner not

acceptable to Railway/DFCCIL. Should the tenderer fail to observe or comply with the foregoing stipulation, the amount deposited or Bank guarantee bond submitted as Bid Security for the due performance of the above stipulation, shall be forfeited to the DFCCIL.

- (c) If his tender is accepted,
- (i) the Bid Security mentioned in sub para(a) above deposited in cash through e-payment gateway 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;
- (ii) the Bid Security mentioned in sub para(a) above submitted as Bank guarantee bond, will be encased as part security for the due and faithful fulfillment of the contract in terms of Clause 16 of the Standard General Conditions of Contract.
- (iii) The Bid Security 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 to the Bid Security that may happen thereto while in their possession, nor be liable to pay interest thereon.
- (d) In case Contractor submits the Term Deposit Receipt/Bank Guarantee Bond towards either the Full Security Depositor the Part Security Deposit equal to or more than Bid Security, the DFCCIL shall return the Bid Security so retained as per sub para(c) above, to the Contractor.

(As per Clause No. 6 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up-to-date correction slip.)

- 7. 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.

(As per Clause No. 7 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up-to-date correction slip.)

- 8.** 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.

(As per Clause No. 8 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up-to-date correction slip.)

- 9.** If any partner(s) of a partnership firm expires after the submission of its tender or after the acceptance of its tender, the DFCCIL shall deem such tender as cancelled/contract as terminated under clause 61 of the Standard General Conditions of Contract, unless the firm retains its character as per partnership agreement. If a sole proprietor expires after the submission of tender or after the acceptance of tender, the DFCCIL shall deem such tender as cancelled / contract as terminated under clause 61 of the Standard General Conditions of Contract.

(As per Clause No. 9 of tender form 2nd sheet Annex. I Part-I of GCC

APRIL-2022, with up-to-date correction slip.)

10. Eligibility Criteria:

10.1 Technical Eligibility Criteria:

SN	Work	Estimated Value of Tender
1	Maintenance of 2x25 kV High Rise Over Head Equipment on New Makarpura – New Bhestan section of DFCCIL including New Udhana, New Gothangam, New Sanjali connectivity to Indian Railways for a period of 24 (Twenty-four) months under CGM Vadodara Unit.	Rs. 3,19,18,362.47 (Rs. Three Crore Nineteen Lakhs Eighteen Thousand Three Hundred sixty-two and Paise forty-seven Only excluding of GST.

- (a) The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) 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, or
 - Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or
 - One similar work costing not less than the amount equal to 60% of advertised value of the tender.

Definition of Similar nature of work: -

“Rehabilitation/Maintenance/Design, Supply, Erection, Testing & Commissioning of single phase 50 Hz, 25/2X25 kV AC OHE System.”

The tenderer (s) must be an established, experienced and reputed construction firm and have regularly undertaken works of the similar type tendered for and have adequate technical knowledge and practical experience in field.

- (b) In case of tenders for composite works (e.g. works involving more than one distinct component, such as Civil Engineering works, S&T works, Electrical works, OHE works etc. –and in the case of major bridges – substructure, superstructure etc.) - **(Not applicable for this tender)**

(c) ELECTRICAL CONTRACTOR LICENSE—

- 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).
- 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.
- c. 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.

Note: for subletting of work costing up to Rs 50 lakh, no previous work experience of subcontractor shall be asked for by the DFCCIL.

In case after award of contract or during execution of work it becomes necessary for contractor to change subcontractor, the same shall be done with subcontractor(s) fulfilling the requirements as per clause 7 of the Standard General Conditions of Contract, with prior approval of General Manager/Co-ord./Vadodara/DFCCIL in writing.

Note for Item 10.1:

Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organization, work experience certificate issued by 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 closing of tender, shall also 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 and copy of final/last bill paid by company in support of above work experience certificate.

(As per Clause No. 10 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up-to-date correction slip.)

10.2. Financial Eligibility Criteria: The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less; where
V= Advertised value of the tender in crores of Rupees
N= Number of years prescribed for completion of work for which bids have been invited.

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.

The tenderers shall submit requisite information as per **Annexure-VIB**, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.

(As per Clause No. 10.2 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up-to-date correction slip.)

10.3 Bid Capacity: The tender/technical bid will be evaluated based on bid capacity formula detailed as Annexure-VI. **(Not applicable For this Tender)**

(As per Clause No. 10.3 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up-to-date correction slip.)

10.4 No Technical and Financial credentials are required for tenders having advertised value up to Rs 50 lakh.

(As per Clause No. 10.4 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up-to-date correction slip.)

10.5 Credentials if submitted in foreign currency shall be converted into Indian currency i.e., Indian Rupee as under:

The conversion rate of US Dollars into Rupees shall be the daily representative exchange rates published by the Reserve Bank of India or entity authorized by RBI to do so for the relevant date or immediately previous date for which rates have been published. 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.

[Explanation for Para 10 of the Tender Form (Second Sheet) including Para 10.1 to 10.5 - Eligibility Criteria:

- 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.

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.

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 (above)), the same shall be considered for the purpose of fulfillment of credentials.*
6. *In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost including the PVC amount (if paid) of that completed work or substantially completed work, shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.*
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.*
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.*
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.*

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.
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.
12. 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.
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.
14. In case a tenderer is LLP, the credentials of tenderer shall be worked out on above lines similar to a partnership firm.
15. In case company A is merged with company B, then company B would get the credentials of company A also.]

(As per Clause No. 10.5 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up to date correction slip.)

11. Tenderer Credentials:

Documents testifying tenderer previous experience and financial status should be produced along with the tender.

Tenderer(s) who is/are not borne on the approved list of the Contractors of DFCCIL/Railway shall submit along with his / their tender:

- (i) Certificates and testimonials regarding contracting experience for the type of job for which tender is invited with list of works carried out in the past.
- (ii) Audited Balance Sheet duly certified by the Chartered Accountant regarding contractual payments received in the past.
- (iii) The list of personnel / organization on hand and proposed to be engaged for the tendered work. Similarly list of Plant & Machinery available on hand and proposed to be inducted and hired for the tendered work.
- (iv) A copy of 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-V. Non submission of a copy of 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 / digitally

signed by which they/he are/is qualifying the Qualifying Criteria mentioned in the Tender Document.

- (v) 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. 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.
- (vi) (a) In case of any information submitted by tenderer is found to be false, forged or incorrect at any time during process for evaluation of tenders, it shall lead to forfeiture of the tender Bid Security besides banning of business for a period of up to five years.
- (b) 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. Bid Security, 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.

(As per Clause No. 11 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up-to-date correction slip.)

12. Non-compliance with any of the conditions set forth therein above is liable to result in the tender being rejected.

(As per Clause No. 12 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up-to-date correction slip.)

13. **Execution of Contract Documents:** The successful Tenderer(s) shall be required to execute an agreement with the President of India acting through the Chief General Manager/DFCCIL/Vadodara for carrying out the work according to the Standard General Conditions of Contract, Special Conditions / Specifications annexed to the tender and Standard Specifications (Works and Materials) of DFCCIL as amended/corrected up to latest correction slips, mentioned in tender form (First Sheet).

(As per Clause No. 13 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up to date correction slip.)

14. **Documents to be Submitted Along with Tender**

- (i) The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / Company / Joint Venture (JV) / Registered Society / Registered Trust / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents in such cases are to be 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.
- (ii) Following documents shall be submitted by the tenderer:
- (a) **Sole Proprietorship Firm:**
- (i) All documents in terms of Para 10 of part III above.
- (b) **HUF:**
- (i) A copy of notarized affidavit on Stamp Paper declaring that he who is submitting the tender on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF.
- (ii) All other documents in terms of Para 10 of the part III above.
- (c) **Partnership Firm:**
- (i) All documents as mentioned in para18 of the part III.
- (d) **Joint Venture (JV):** All documents as mentioned in para 17 of the part III.
- (e) **Company registered under Companies Act2013:**
- (i) The copies of **MOA (Memorandum of Association) / AOA (Articles of Association)** of the company
- (ii) A copy of Certificate of Incorporation
- (iii) A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender on behalf of the company and create liability against the company.
- (iv) All other documents in terms Para 10 of the part III above.
- (f) **LLP (Limited Liability Partnership):**
- (i) A copy of LLP Agreement
- (ii) A copy of Certificate of Incorporation
- (iii) A copy of Power of Attorney/Authorization issued by the LLP in favour of the individual to sign the tender on behalf of the LLP and create liability against the LLP.
- (iv) An undertaking by all partners of the LLP that they are not blacklisted or debarred by DFCCIL or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract.
- (v) All other documents in terms of Para 10 of the part III.
- (g) **Registered Society & Registered Trust:**
- (i) A copy of Certificate of Registration
- (ii) A copy of Memorandum of Association of Society/Trust Deed
- (iii) A copy of Power of Attorney in favour of the individual to sign the tender documents and create liability against the Society/Trust.
- (iv) A copy of Rules & Regulations of the Society

- (v) All other documents in terms of Para 10 of the part III above.
- (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.
- (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/LLP etc. shall be neither asked nor considered, if submitted. Further, no suo moto cognizance of any document available in public domain (i.e., on internet etc.) or in DFCCIL's record/office files etc. will be taken for consideration of the tender, if no such mention is available in tender offer submitted.
- (v) A tender from JV shall be considered only where permissible as per the tender conditions.
- (vi) The DFCCIL will not be bound by any change of power of attorney or in the composition of the firm made subsequent to the submission of tender. DFCCIL may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.

(As per Clause No. 14 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up to date correction slip.)

15. The tenderer whether sole proprietor / a company or a partnership firm / joint venture (JV) / registered society / registered trust / HUF / LLP 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 sign the tender, submit the tender and further to deal with the Tender/ Contract up to the stage of signing the agreement except in case where such specific person is authorized for above purposes through a provision made in the partnership deed / Memorandum of Understanding / Article of Association /Board resolution, failing which tender shall be summarily rejected.

A separate 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, shall be submitted after award of work, specifically authorizing him/them to deal with all other contractual activities subsequent to signing of agreement, if required.

Note: A Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalized by the Indian Embassy if it carries a conforming Apostille certificate.

(As per Clause No. 15 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up to date correction slip.)

16. Employment/Partnership etc. of Retired DFCCIL Employees:

(a) Should a tenderer

- 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 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/members 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

AND

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

THEN

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.

- 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 department of any of the 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.
- c) Should a tenderer or Contractor being an individual, have member(s) of his family or in the case of partnership firm/ company / joint venture (JV) / registered society / registered trust 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 the Engineering or any other

department of the DFCCIL, then the tenderer at the time of submission of tender, will inform the authority inviting tenders the details of such persons.

Note: -If information as required as per 16.a), b), c) above has not been furnished, contract is liable to be dealt in accordance with provision of clause 62 of the Standard General Condition of contract.

(As per Clause No. 16 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up to date correction slip.)

JOINT VENTURE (JV) IN WORKS TENDERS (Not applicable for this tender)

- 17.0 Participation of Joint Venture (JV) in Works Tender:** This para shall be applicable for works tenders wherein tender documents provide for the same.
- 17.1** Separate identity/name shall be given to the Joint Venture.
- 17.2** Number of members in a JV shall not be more than three, if the work involves only one department (say Civil or S&T or Electrical or Mechanical) and shall not be more than five, if the work involves more than one Department. One of the members of the JV shall be its Lead Member who shall have a majority (at least 51%) share of interest in the JV. The other members shall have a share of not less than 20% each in case of JV with upto three members and not less than 10% each in case of JV with more than three members. In case of JV with foreign member(s), the Lead Member has to be an Indian firm/company with a minimum share of 51%.
- 17.3** A member of JV shall not be permitted to participate either in individual capacity or as a member of another JV in the same tender.
- 17.4** The tender form shall be purchased and submitted only in the name of the JV and not in the name of any constituent member. The tender form can however be submitted by JV or any of its constituent member or any person authorized by JV through Power of Attorney to submit tender.
- 17.5 Bid Security shall be submitted by JV or authorized person of JV either as**
- (i) Cash through e-payment gateway or as mentioned in tender document, or
 - (ii) Bank Guarantee bond either in the name of JV, or in the name of all members of JV as per MOU irrespective of their share in the JV if the JV has not been constituted legally till the date of submission of tender.
- 17.6** A copy of Memorandum of Understanding (MoU) duly executed by the JV members on a stamp paper, shall be submitted by the JV along with the tender. The complete details of the members of the JV, their share and responsibility in the JV etc. particularly with reference to financial, technical and other obligations shall be furnished in the MoU.
- 17.7** Once the tender is submitted, the MoU shall not normally be modified / altered / terminated during the validity of the tender. In case the tenderer fails to

observe/comply with this stipulation, the full Bid Security shall be liable to be forfeited.

- 17.8** Approval for change of constitution of JV shall be at the sole discretion of the DFCCIL. The constitution of the JV shall not normally be allowed to be modified after submission of the bid by the JV, except when modification becomes inevitable due to succession laws etc., provided further that there is no change in qualification of minimum eligibility criteria by JV after change of composition. However, the Lead Member shall continue to be the Lead Member of the JV. Failure to observe this requirement would render the offer invalid.
- 17.9** Similarly, after the contract is awarded, the constitution of JV shall not be normally allowed to be altered during the currency of contract except when modification become inevitable due to succession laws etc. and minimum eligibility criteria should not get vitiated. Failure to observe this stipulation shall be deemed to be breach of contract with all consequential penal action as per contract conditions.
- 17.10** On award of contract to a JV, a single Performance Guarantee shall be submitted by the JV as per tender conditions. All the Guarantees like Performance Guarantee, Bank Guarantee for Mobilization Advance, Machinery Advance etc. shall be accepted only in the name of the JV and no splitting of guarantees amongst the members of the JV shall be permitted.
- 17.11** On issue of LOA (Letter of Acceptance), the JV entity to whom the work has been awarded, with the same shareholding pattern as was declared in the MOU/JV Agreement submitted alongwith the tender, shall be got registered before the Registrar of the Companies under 'The Companies Act -2013' (in case JV entity is to be registered as Company) or before the Registrar/Sub-Registrar under the 'The Indian Partnership Act, 1932' (in case JV entity is to be registered as Partnership Firm) or under 'The LLP Act 2008' (in case JV entity is to be registered as LLP). A separate PAN shall be obtained for this entity. The documents pertaining to this entity including its PAN shall be furnished to the DFCCIL before signing the contract agreement for the work. In case the tenderer fails to observe/comply with this stipulation within 60 days of issue of LOA, contract is liable to be terminated. In case contract is terminated DFCCIL shall be entitled to forfeit the full amount of the Bid Security and other dues payable to the Contractor under this contract. The entity so registered, in the registered documents, shall have, inter-alia, following Clauses:
- 17.11.1** Joint and Several Liability - Members of the entity to which the contract is awarded, shall be jointly and severally liable to the DFCCIL for execution of the project in accordance with General and Special Conditions of Contract. The members of the entity 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.
- 17.11.2** Duration of the Registered Entity - It 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.
- 17.11.3** Governing Laws - The Registered Entity shall in all respect be governed by

and interpreted in accordance with Indian Laws.

17.12 Authorized Member - Joint Venture members in the JV MoU shall authorize Lead member on behalf of the Joint Venture 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/correspondences with respect to the contract would be sent only to this authorized member of the JV.

17.13 No member of the Joint Venture 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 DFCCIL in respect of the said tender/contract.

17.14 Documents to be enclosed by the JV along with the tender:

17.14.1 In case one or more of the members of the JV is/are partnership firm(s), following documents shall be submitted:

- (i) A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar.
- (ii) A copy of consent of all the partners or individual authorized by partnership firm, to enter into the Joint Venture Agreement on a stamp paper,
- (iii) A notarized or registered copy of Power of Attorney in favour of the individual to sign the MOU/JV Agreement on behalf of the partnership firm and create liability against the firm.
- (iv) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by DFCCIL or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the Standard General Conditions of Contract.

17.14.2 In case one or more members is/are Proprietary Firm or HUF, the following documents shall be enclosed:

- (i) A copy of notarized affidavit on Stamp Paper declaring that his Concern is a proprietary Concern and he is sole proprietor of the Concern OR he who is signing the affidavit on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF.

17.14.3 In case one or more members of the JV is/are companies, the following documents shall be submitted:

- (i) A copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement,
 - (ii) The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company
 - (iii) A copy of Certificate of Incorporation
 - (iv) A copy of Authorization/copy of Power of Attorney issued by the Company
-

(backed by the resolution of Board of Directors) in favour of the individual, to sign the tender, sign MOU/JV Agreement on behalf of the company and create liability against the company

17.14.4 In case one or more members of the JV is/are LLP firm/s, the following documents shall be submitted:

- (i) A copy of LLP Agreement
- (ii) A copy of Certificate of Incorporation of LLP
- (iii) A copy of resolution passed by partners of LLP firm, permitting the Firm to enter into a JV agreement
- (iv) A copy of Authorization /copy of Power of Attorney issued by the LLP firm (backed by resolution passed by the Partners) in favour of the individual, to sign the tender and/or sign the MOU/ JV agreement on behalf of the LLP and create liability against the LLP.
- (v) An undertaking by all partners of the LLP that they are not blacklisted or debarred by DFCCIL or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract.

17.14.5 In case one or more members of the JV is/are Society/s or Trust/s, the following documents shall be submitted:

- (i) A copy of Certificate of Registration
- (ii) A copy of Memorandum of Association of Society/Trust Deed
- (iii) A copy of Rules & Regulations of the Society
- (iv) A copy of Power of Attorney, in favour of the individual to sign the tender documents and create liability against the Society/Trust.

17.14.6 All other documents in terms of Para 10 Part III above.

17.15 Credentials & Qualifying Criteria: Technical, financial eligibility and Bid capacity of the JV shall be adjudged based on satisfactory fulfillment of the following criteria:

17.15.1 Technical Eligibility Criteria ('a' or 'b' mentioned hereunder):

(a) For Works without composite components

The technical eligibility for the work as per para 10.1 above, shall be satisfied by either the 'JV in its own name & style' or 'Lead member 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 10.1 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.

(b) For works with composite components

The technical eligibility for major component of work as per para 10.1 above, shall be satisfied by either the 'JV in its own name & style' or 'Lead member of the JV' and technical eligibility for other component(s) of work as per para 10.1 above, shall be satisfied by either the 'JV in its own name & style' or 'any member of the JV'.

Each other (non-lead) member(s) of JV, who is/ are not satisfying the technical eligibility for any component of the work as per para 10.1 above, shall have technical capacity of minimum 10% of the cost of any component of work mentioned in technical eligibility criteria. i.e., each other (non-lead) member of 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 cost of any component of work mentioned in technical eligibility criteria.

Note for Para 17.15.1:

- a) The *Major component of the work for this purpose shall be the component of work having highest value. In cases where value of two or more component of work is same, any one work can be classified as Major component of work.*
- b) *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.*

17.15.2 Financial Eligibility Criteria

The JV shall satisfy the requirement of "Financial Eligibility" mentioned at para 10.2 above. The "financial capacity" of the lead member of JV shall not be less than 51% of the financial eligibility criteria mentioned at para 10.2 above.

The arithmetic sum of individual "financial capacity" of all the members shall be taken as JV's "financial capacity" to satisfy this requirement.

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.

17.15.3 Bid Capacity

The JV shall satisfy the requirement of "Bid Capacity" requirement mentioned at para 10.3 above. The arithmetic sum of individual "Bid capacity" of all the members shall be taken as JV's "Bid capacity" to satisfy this requirement.

(As per Clause No. 17.0 to 17.15.3 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up to date correction slip.)

18. Participation of Partnership Firms in works tenders:

- 18.1 The Partnership Firms participating in the tender should be legally valid under the provisions of the Indian Partnership Act.
- 18.2 The partnership firm should have been in existence or should have been formed prior to submission of tender. Partnership firm should have either been registered with the Registrar or the partnership deed should have been

- notarized as per the Indian Partnership Act, prior to submission of tender.
- 18.3 Separate identity / name should be given to the partnership firm. The partnership firm should have PAN / TAN number in its own name and PAN / TAN number in the name of any of the constituent partners shall not be considered. The valid constituents of the firm shall be called partners.
- 18.4 Once the tender has been submitted, the constitution of the firm shall not normally be allowed to be modified / altered / terminated during the validity of the tender as well as the currency of the contract except when modification becomes inevitable due to succession laws etc., in which case prior permission should be taken from DFCCIL and in any case the minimum eligibility criteria should not get vitiated. The re-constitution of firm in such cases should be followed by a notary certified Supplementary Deed. The approval for change of constitution of the firm, in any case, shall be at the sole discretion of the DFCCIL and the tenderer shall have no claims what-so-ever. Any change in the constitution of Partnership firm after submission of tender shall be with the consent of all partners and with the signatures of all partners as that in the Partnership Deed. Failure to observe this requirement shall render the offer invalid and full Bid Security shall be forfeited.
- If any Partner/s withdraws from the firm after submission of the tender and before the award of the contract, the offer shall be rejected and Bid Security of the tenderer will be forfeited. If any new partner joins the firm after submission of tender but prior to award of contract, his / her credentials shall not qualify for consideration towards eligibility criteria either individually or in proportion to his share in the previous firm. In case the tenderer fails to inform DFCCIL beforehand about any such changes / modification in the constitution which is inevitable due to succession laws etc. and the contract is awarded to such firm, then it will be considered a breach of the contract conditions liable for determination of the contract under Clause 62 of the Standard General Conditions of Contract.
- 18.5 A partner of the firm shall not be permitted to participate either in his individual capacity or as a partner of any other firm in the same tender.
- 18.6 The tender form shall be submitted only in the name of partnership firm. The Bid Security shall be submitted by partnership firm. The Bid Security submitted in the name of any individual partner or in the name of authorized partner (s) shall not be considered.
- 18.7 On issue of Letter of Acceptance (LOA) to the partnership firm, all the guarantees like Performance Guarantee, guarantee for various Advances to the Contractor shall be submitted only in the name of the partnership firm and no splitting of guarantees among the partners shall be acceptable.
- 18.8 On issue of Letter of Acceptance (LOA), contract agreement with partnership firm shall be executed in the name of the firm only and not in the name of any individual partner.
- 18.9 In case the Letter of Acceptance (LOA) is issued to a partnership firm, the following shall be furnished by all the partners through a notarized affidavit, before signing of contract agreement.
- (a) Joint and several liabilities:
The partners of the firm to which the Letter of Acceptance (LOA) is issued, shall be jointly and severally liable to the DFCCIL for execution of the contract in

accordance with General and Special Conditions of the Contract. The partners 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.

- (b) Duration of the partnership deed and partnership firm agreement:
The partnership deed/partnership firm agreement shall normally not be modified/alterd/ terminated during the currency of contract and the maintenance period after the work is completed as contemplated in the conditions of the contract. Any change carried out by partners in the constitution of the firm without permission of DFCCIL, shall constitute a breach of the contract, liable for determination of the contract under Clause 62 of the Standard General Conditions of Contract.
- (c) Governing laws: The partnership firm agreement shall in all respect be governed by and interpreted in accordance with the Indian laws.
- (d) No partner of the firm shall have the right to assign or transfer the interest right or liability in the contract without the written consent of the other partner/s and that of the DFCCIL.

18.10 The tenderer shall clearly specify that the tender is submitted on behalf of a partnership firm. The following documents shall be submitted by the partnership firm, with the tender:

- (i) A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar.
- (ii) A notarized or registered copy of Power of Attorney in favour of the individual to tender for the work, sign the agreement etc. and create liability against the firm.
- (iii) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by DFCCIL or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the Standard General Conditions of Contract.
- (iv) All other documents in terms of Para 10 above.

18.11 Evaluation of eligibility of a partnership firm:

Technical and financial eligibility of the firm shall be adjudged based on satisfactory fulfillment of the eligibility criteria laid down in Para 10 above.

(As per Clause No. 17.0 to 18.11 of tender form 2 nd sheet Annex. I Part-I of GCC APRIL-2022, with up to date correction slip.)

19.0 Advances to Contractor –(Not applicable for this Tender)

If specifically provided in Tender Documents of tender having advertised value more than Rs 50 Crores, DFCCIL shall make payment, as an Interest-bearing advances, as per Contractor's request. These advances shall carry a simple interest _____ as indicated in the Tender documents. The payment and



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recovery of such advances shall be made as per manners prescribed in Clause 46.4 of the Standard General Conditions of Contract.

(Signature)
(Designation)

Signature of Tenderer(s) _____
Date _____

DFCCIL
Date _____

(As per Clause No. 19 of tender form 2nd sheet Annex. I Part-I of GCC APRIL-2022, with up to date correction slip.)

Part IV

STANDARD GENERAL CONDITIONS OF CONTRACT

STANDARD GENERAL CONDITIONS OF CONTRACT

- 1. (1) Definitions:** In these Standard General Conditions of Contract, the following terms shall have the meaning assigned hereunder except where the context otherwise requires:
- (a) "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.
 - (b) "General Manager" shall mean the Officer in-charge of the General Superintendence and Control of the DFCCIL/Railways and shall also include Addl. General Manager, the General Manager (Construction) and shall mean and include their successors, of the successor DFCCIL/Railways.
 - (c) "Chief Engineer" shall mean the Officer in-charge of the Engineering Department of DFCCIL/Railways and shall also include Chief Engineer (Construction), Chief Signal & Telecommunication Engineer, Chief Signal & Telecommunication Engineer (Construction), Chief Electrical Engineer, Chief Electrical Engineer (Construction), Chief Mechanical Engineer and shall also include GGM/GM of DFCCIL.
 - (d) "Divisional Railway Manager" shall mean the Officer in-charge of a Division of the Railway and shall also mean any officer nominated by Managing Director / DFCCIL and shall mean and include their successors of the successor DFCCIL/Railways.
 - (e) "Engineer" and Employer's Engineer shall mean Dy.CPM/DFCCIL or any other superior official of DFCCIL or PMC appointed by DFCCIL
 - (f) "Engineer's Representative" shall mean the Assistant Engineer, Assistant Signal and Telecommunication Engineer and Assistant Electrical Engineer, APM / PM / Dy .CPM / Add. CPM of DFCCIL in direct charge of the work and shall include any Sr. Sec. / Sec / Jr. Engineer / Executive / Sr. Executive, APM/PM / Dy.CPM of DFCCIL of Civil Engineering / Signal & Telecommunication Engineering / Electrical Engineering Department appointed by the DFCCIL/Railways and shall mean and include the Engineer's Representative of the successor DFCCIL/Railways.
 - (g) "Contractor" shall mean the Person/Firm/LLP/Trust/Co-operative Society or Company whether incorporated or not who enters into the contract with the DFCCIL/Railways and shall include their executors, administrators, successors and permitted assigns.
 - (h) "Contract" shall mean and include the Agreement, the Work Order, the accepted Bill(s) of Quantities or Chapter(s) of Standard Schedule of Rates (SSOR) of the DFCCIL/Railways modified by the tender percentage for items of works quantified, or not quantified, the Standard General Conditions of Contract, the Special Conditions of Contracts, if any; the Drawing, the Specifications, the Special Specifications, if any and Tender Forms, if any.

- (i) "Works" shall mean the works to be executed in accordance with the contract.
- (j) "Specifications" shall mean the Standard Specifications for Materials & Works of DFCCIL as specified by DFCCIL under the authority of the Chief Engineer or as amplified, added to or superseded by Special Specifications, if any.
- (k) Standard Schedule of Rates (SSOR) shall mean the schedule of Rates adopted by the Railway/DFCCIL, which includes-
1. "Unified Standard Schedule of Rates of the Railway (USSOR)" i.e. the Standard Schedule of Rates of the Railway issued under the authority of the Chief Engineer from time to time, updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents;
 2. "Delhi Schedule Of Rates (DSR)" i.e. the Standard Schedule of Rates published by Director General/ Central Public Works Department, Government of India, New Delhi, as adopted and modified by the DFCCIL under the authority of the Chief Engineer from time to time, updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents.
- (l) "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.
- (m) "Constructional Plant" 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.
- (n) "Temporary Works" shall mean all temporary works of every kind required for the execution completion and/or maintenance of the works.
- (o) "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/DFCCIL for the purpose of the contract.
- (p) "Period of Maintenance" shall mean the specified period of maintenance from the date of completion of the works, as certified by the Engineer.
- (q) 'Contractor's authorized Engineer' shall mean a graduate Engineer or equivalent, having more than 3 years' experience in the relevant field of construction work involved in the contract, duly approved by Engineer.
- (r) 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.
- (s) "Bill of Quantities" shall mean Schedule of Item(s) included in the tender document along with respective quantities and rates, accepted by the DFCCIL.
- 1. (2) Singular and Plural:** Words importing the singular number shall also include the plural and vice versa where the context requires.
- 1.(3) Headings and Marginal Headings:** The headings and marginal headings in these Standard 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 the contract.

GENERAL OBLIGATIONS

- 2. (1) Execution Co-Relation and Intent of Contract Documents:** The contract documents shall be signed in triplicate by the DFCCIL/Railways and the Contractor. The contract documents are complementary and what is called for by anyone shall be as binding as if called for by all, the intention of the documents is to include all labour and materials, equipment's and transportation necessary for proper execution of work. Materials or works not covered by or properly inferable from any heading or class of the specifications shall not be supplied by the DFCCIL to the Contractors unless distinctly specified in the contract documents. Materials or works described in words which so applied have a well-known technical or trade meaning, shall be held to refer to such recognized standards.
- 2.(2)** If a work is transferred from the jurisdiction of one DFCCIL/Railways to another DFCCIL or to a Project authority or vice versa while contract is in subsistence, the contract shall be binding on the Contractor and the Successor DFCCIL/Railways/Project in the same manner & take effect in all respects as if the Contractor and the Successor DFCCIL/Project were parties thereto from the inception and the corresponding officer or the Competent Authority in the Successor Railway/DFCCIL/Project will exercise the same powers and enjoy the same authority as conferred to the Predecessor Railway/DFCCIL/Project under the original contract/agreement entered into.
- 2. (3)** If for administrative or other reasons the contract is transferred to the Successor DFCCIL/Railways, the contract shall, notwithstanding any things contained herein contrary there to, be binding on the Contractor and the Successor DFCCIL/Railways in the same manner and take effect in all respects as if the Contractor and the Successor DFCCIL/Railways had been parties thereto from the date of this contract.
- 3. (1) Law Governing the Contract:** The contract shall be governed by the law for the time being in force in the Republic of India.
- 3.(2) Compliance to Regulations and Bye-Laws:** The Contractor shall conform to the provision of any statute relating to the works and regulations and bye-laws of any local authority and of any water and lighting companies or undertakings, with whose system the work is proposed to be connected and shall before making any variation from the drawings or the specifications that may be necessitated by so confirming give to the Engineer notice specifying the variation proposed to be made and the reason for making the variation and shall not carry out such variation until he has received instructions from the Engineer in respect thereof. The Contractor shall be bound to give all notices required by statute, regulations or bye-laws as aforesaid and to pay all fees and taxes payable to any authority in respect thereof.
- 3.(3) Environmental and Forest clearances:**

The DFCCIL/Railways represents and warrants that the environmental and

forest clearances pertaining to the work commensurate with the progress of work/agreed programme, will be obtained by Engineer. In the event of any delay in securing respective clearances leading to delay in execution of work, the Contractor shall be entitled to Extension of Time for the period of such delay in accordance with the provisions of Clause-17A(ii).

4. **Communications to be in Writing:** 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.
5. **Service of Notices on Contractors:** The Contractor shall furnish to the Engineer the name, designation and address of his authorized agent and all complaints, notices, communications and references shall be deemed to have been duly given to the Contractor, if delivered to the Contractor or his authorized agent or left at or posted to the address so given and shall be deemed to have been so given in the case of posting on day on which they would have reached such address in the ordinary course of post/ e-mail or on the day on which they were so delivered or left. In the case of contract by partners, any change in the constitution of the firm shall be forthwith notified by the Contractor to the Engineer.
6. **Occupation and Use of Land:** No land belonging to or in the possession of the DFCCIL/Railways shall be occupied by the Contractor without the permission of the DFCCIL/Railways. The Contractor shall not use, or allow to be used the site for any purposes other than that of executing the works. Whenever non-Railway bodies/DFCCIL/persons are permitted to use DFCCIL/Railway premises with competent authority's approval, conservancy charges as applicable from time to time may be levied.
7. **Assignment or Subletting of Contract:** The Contractor shall not assign or sublet the contract or any part thereof or allow any person to become interested therein in any manner whatsoever without the special permission in writing of the Chief Engineer, save as provided below. Any breach of this condition shall entitle the DFCCIL/Railways to rescind the contract under Clause 62 of these Conditions and also render the Contractor liable for payment to the DFCCIL/Railways in respect of any loss or damage arising or ensuing from such cancellation; provided always that execution of the details of the work by petty Contractor under the direct and personal supervision of the Contractor or his agent shall not be deemed to be sub-letting under this clause.
In case Contractor intends to subcontract part of work, he shall submit a proposal in writing seeking permission of Chief Engineer for the same. While submitting the proposal to Railway/DFCCIL, Contractor shall ensure the following:
 - (a) (i) Total value of work to be assigned to sub-contractor(s) shall not be more than 50% of total contract value.

(ii) The subcontractor shall have successfully completed at least one work similar to work proposed for subcontract in last 5 years, ending date of submission of proposal by Contractor to Railway/DFCCIL, costing not less than 35% value of work to be subletted, through a works contract. For fulfilment of above, Work Experience Certificate issued by a Govt. Department/Organization shall be considered. Further, Work Experience Certificate issued by a Public listed company shall be considered provided the company is 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 Railway/DFCCIL and work experience certificate issued by a person authorized by the Public Listed Company to issue such certificates.

Note: for subletting of work costing up to Rs 50 lakh no previous work experience shall be asked for by the Railway/DFCCIL.

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.

- (ii) There is no banning of business with the sub-contractor in force over IR.
- (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.
- (c) On receipt of approval from Chief Engineer, 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.
- (d) The Contractor shall intimate to the Engineer not less than 7 days in advance, the intended date of commencement of subcontractor's work.
- (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 Railway/DFCCIL, with prior intimation to Chief Engineer.
- (f) The Contractor shall indemnify Railway/DFCCIL against any claim of subcontractor.
- (g) The Contractor shall release payment to the Sub-contractor(s) promptly and shall endeavor to resolve all issues amicably and speedily with the Sub-contractor(s), so that the execution of work is not affected in any manner whatsoever.

- (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.
- 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 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.*
- (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.
- (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/Railways and this shall be deemed as 'excepted matter' (matter not arbitrable).
- (k) The permitted subcontracting of work by the Contractor shall not establish any contractual relationship between the sub-contractor and the DFCCIL/Railways and shall not relieve the Contractor of any responsibility under the Contract.

8. Assistance by DFCCIL for the Stores to be obtained by the Contractor: Owing to difficulty in obtaining certain materials (including Tools & Plant) in the market, the DFCCIL may have agreed without any liability therefore to endeavor to obtain or assist the Contractor in obtaining the required quantities of such materials as may be specified in the Tender. In the event of delay or failure in obtaining the required quantities of the aforesaid material, the Contractor shall not be deemed absolved of his own responsibility and shall keep in touch with the day to day position regarding their availability and accordingly adjust progress of works including employment of labour and the DFCCIL shall not in any way be liable for the supply of materials or for the non-supply thereof for any reasons whatsoever nor for any loss or damage arising in consequence of such delay or non-supply.

9. Railway Passes: No free Railway passes shall be issued by the Railway to the

Contractor or any of his employee/worker.

10. **Carriage of Materials:** No forwarding orders shall be issued by the DFCCIL/Railways for the conveyance of Contractor's materials, tools and plant by train which may be required for use in the works and the Contractor shall pay full freight charges at public tariff rates therefor.
11. **Use of Ballast Trains:** The Railway/DFCCIL may agree to allow the Contractor use of the ballast or material trains under such conditions as shall be specially prescribed, provided that the Contractor shall pay for the use thereof charges calculated at public tariff rates on the marked carrying capacity of each vehicle subject to specified minimum charge per day or part of day and provided further that the Contractor shall indemnify the Railway/DFCCIL against any claims or damages arising out of the use or misuse thereof and against any liabilities under the Workmen's Compensation Act, 1923 or any statutory amendments thereto. **(Not applicable)**
12. **Representation on Works:** The Contractor shall, when he is not personally present on the site of the works place, keep a responsible agent at the works during working hours who shall on receiving reasonable notice, present himself to the Engineer and orders given by the Engineer or the Engineer's representative to the agent shall be deemed to have the same force as if they had been given to the Contractor. Before absenting himself, the Contractor shall furnish the name and address of his agent for the purpose of this clause and failure on the part of the Contractor to comply with this provision at any time will entitle the DFCCIL/Railways to rescind the contract under Clause 62 of these Conditions.
13. **Relics and Treasures:** All gold, silver, oil, other minerals of any description, all precious stones, coins, treasures relics antiquities and other similar things which shall be found in or upon the site shall be the property of the DFCCIL/Railways and the Contractor shall duly preserve the same to the satisfaction of the DFCCIL/Railways and shall from time to time deliver the same to such person or persons as the DFCCIL/Railways may appoint to receive the same.
14. **Excavated Material:** The Contractor shall not sell or otherwise dispose of or remove except for the purpose of this contract, the sand, stone, clay ballast, earth, trees, rock or other substances or materials which may be obtained from any excavation made for the purpose of the works or any building or produced upon the site at the time of delivery of the possession thereof but all the substances, materials, buildings and produce shall be the property of the DFCCIL/Railways provided that the Contractor may, with the permission of the Engineer, use the same for the purpose of the works either free of cost or pay the cost of the same at such rates as may be determined by the Engineer.
15. **Indemnity by Contractors:** The Contractor shall indemnify and save harmless the DFCCIL/Railways from and against all actions, suit, proceedings, losses, costs, damages, charges, 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 the execution of the works or in his guarding of the same. All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the actual loss or damage sustained, and whether or not any damage shall have been sustained.

16.(1) Security Deposit: The Security Deposit shall be 5% of the contract value. The Bid Security submitted by the Contractor with his tender will be retained /encashed by the DFCCIL as part of security for the due and faithful fulfillment of the contract by the Contractor. Provided further that, if Contractor submits the Cash or Term Deposit Receipt issued from a Scheduled commercial bank of India or irrevocable Bank Guarantee Bond from a Scheduled commercial bank of India, either towards the Full Security Depositor the Part Security Deposit equal to or more than Bid Security, the DFCCIL shall return the Bid Security, to the Contractor.

Balance of Security Deposit may be deposited by the Contractor in cash or Term Deposit Receipt issued from Scheduled commercial bank of India or irrevocable Bank Guarantee bond issued from Scheduled commercial bank of India, 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.

The Irrevocable Bank Guarantee submitted towards Security deposit shall be initially valid up to the stipulated date of Maintenance period plus 60 days and shall be extended from time to time, depending upon extension of contract granted in terms of Clause 17A and 17B of the Standard General Conditions of Contract.

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.

16.(2) (i) Refund of Security Deposit: Security Deposit mentioned in sub clause (1) above shall be returned to the Contractor along with or after, the following:

- (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.

16. (2) (ii) Forfeiture of Security Deposit: Whenever the contract is rescinded as a whole under clause 62 (1) of these conditions, 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 these conditions, the Security Deposit shall not be forfeited.

16.(3) No interest shall be payable upon the Bid Security 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 this clause will be payable with interest accrued thereon.

16.(4) Performance Guarantee

The procedure for obtaining Performance Guarantee is outlined below:

(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 Bid Security and other dues payable to the contractor against that particular contract, subject to maximum of PG amount. In case a tenderer has not submitted Bid Security 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.

The failed Contractor shall be debarred from participating in re-tender for that work.

(b) The successful bidder shall submit the Performance Guarantee (PG) in any of the following forms, amounting to 5% of the original contract value: -

(i) A deposit of Cash;

(ii) Irrevocable Bank Guarantee;

(iii) Government Securities including State Loan Bonds at 5% below the market value;

(iv) Pay Orders and Demand Drafts tendered by any Scheduled Commercial Bank of India;

(v) Guarantee Bonds executed or Deposits Receipts tendered by any Scheduled

- Commercial Bank of India;
- (vi) Deposit in the Post Office Saving Bank;
 - (vii) Deposit in the National Savings Certificates;
 - (viii) Twelve years National Defence Certificates;
 - (ix) Ten years Defence Deposits;
 - (x) National Defence Bonds and
 - (xi) Unit Trust Certificates at 5% below market value or at the face value whichever is less. Also, FDR in favor of FA&CAO (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.
- (f) Whenever the contract is rescinded, the Performance Guarantee already submitted for the contract shall be encashed.
- (g) The Engineer shall not make a 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 contract 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.
 - (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.
 - (iii) The Contract being determined or rescinded under clause 62 of these conditions.
- 17. Force Majeure Clause:** If at any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract shall be prevented or delayed by reason of any war, hostility, acts of public enemy, civil commotion, sabotage, serious loss or damage by fire, explosions, epidemics/pandemics, strikes, lockouts or acts of God (hereinafter, referred to events) provided, notice of the happening of any such event is given by either party to the other within 30 days from the date of occurrence thereof, neither party shall by reason of such event, be entitled to terminate this contract

nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance, and works under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist, and the decision of the Engineer as to whether the works have been so resumed or not shall be final and conclusive, PROVIDED FURTHER that if the performance in whole or in part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 120 days, either party may at its option terminate the contract by giving notice to the other party.

17A. Extension of Time in Contracts: Subject to any requirement in the contract as to completion of any portion or portions of the works before completion of the whole, the Contractor shall fully and finally complete the whole of the works comprised in the contract (with such modifications as may be directed under conditions of this contract) by the date entered in the contract or extended date in terms of the following clauses:

- (i) **Extension due to Modification:** If any modifications have been ordered which in the opinion of the Engineer have materially increased the magnitude of the work, then such extension of the contracted date of completion may be granted as shall appear to the Engineer to be reasonable in the circumstances, provided moreover that the Contractor shall be responsible for requesting such extension of the date as may be considered necessary as soon as the cause thereof shall arise.
- (ii) **Extension for Delay not due to DFCCIL/Railways or Contractor:** If in the opinion of the Engineer, the progress of work has any time been delayed by any act or neglect of Railway/DFCCIL's employees or by other Contractor employed by the DFCCIL under Sub-Clause (4) of Clause 20 of these Conditions or in executing the work not forming part of the contract but on which Contractor's performance necessarily depends or by reason of proceeding taken or threatened by or dispute with adjoining or to neighboring owners or public authority arising otherwise through the Contractor's own default etc. or by the delay authorized by the Engineer pending arbitration or in consequences of the Contractor not having received in due time necessary instructions from the DFCCIL for which he shall have specially applied in writing to the Engineer or his authorized representative then upon happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer within 15 days of such happening, but shall nevertheless make constantly his best endeavors to bring down or make good the delay and shall do all that may be reasonably required of him to the satisfaction of the Engineer to proceed with the works. The Contractor may also indicate the period for which the work is likely to be delayed and shall be bound to ask for necessary extension of time.
- (iii) **Extension for Delay due to DFCCIL/Railways:** In the event of any failure or delay by the DFCCIL to hand over the Contractor possession of the lands necessary for the execution of the works or to give the necessary notice to commence the works or to provide the necessary drawings or instructions or any other delay caused by the DFCCIL due to any other cause whatsoever, then such failure or delay shall in no way affect or vitiate the contract or alter the character thereof or entitle the Contractor to damages or compensation therefor, but in any such case, the DFCCIL may grant such extension or extensions of the

completion date as may be considered reasonable.

The Contractor shall indicate the period for which the work is likely to be delayed and shall seek extension of time as may be considered necessary under clause 17A(i) or/and 17A(ii) or/ and 17A(iii) above, as soon as the cause thereof shall arise and, in any case, not less than 15 days before the expiry of the date fixed for completion of the works. The Engineer shall consider the same and shall grant and communicate such extension of time as in his opinion is reasonable having regard to the nature and period of delay and the type and quantum of work affected thereby. No other compensation shall be payable for works so carried forward to the extended period of time; the same rates, terms and conditions of contract being applicable, as if such extended period of time was originally provided in the original contract itself.

The non-submission of request for extension or submission of request within less than 15 days before the expiry of the date fixed for completion of the works, shall make him ineligible for extension under these sub clauses, subject to final decision of Engineer.

(As per Advance Correction Slip No. 1, Letter No. 2022/CE-I/CT/GCC-2022/Policy Dated-14.07.2022)

17B. Extension of Time with Liquidated Damages (LD) for delay due to

Contractor: 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 17A, 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 (Proforma at Annexure-VII) 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 0.01% to 0.30% of contract value of the works for each week or part of the week.

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.

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.

NOTE:

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.

(As per Advance Correction Slip No. 1, Letter No. 2022/CE-I/CT/GCC-2022/Policy Dated-14.07.2022)

17C. Bonus for Early Completion of Work: In open tenders having advertised value more than Rs.50 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.

18.(1) Illegal Gratification: Any bribe, commission, gift or advantage given, promised or offered by or on behalf of the Contractor or his partner or agent or servant or anyone on his behalf, to any officer or employee of the DFCCIL or to any person on his behalf in relation to obtaining or execution of this or any other contract with the DFCCIL shall, in addition to any criminal liability which he may incur, subject Contractor to the rescission of the contract and all other contracts with the DFCCIL and to the payment of any loss or damage resulting from such decision and the DFCCIL shall be entitled to deduct the amounts so payable from the Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India.

18.(2) The Contractor shall not lend or borrow from or have or enter into any monetary dealings or transactions either directly or indirectly with any employee of the DFCCIL and if he shall do so, the DFCCIL shall be entitled forthwith to rescind the contract and all other contracts with the DFCCIL. Any question or dispute as to the commission of any such offence or compensation payable to the DFCCIL under this Clause shall be settled by the General Manager of the DFCCIL, in such a manner as he shall consider fit & sufficient and his decision shall be final & conclusive. In the event of rescission of the contract under this Clause, the Contractor will not be paid any compensation whatsoever except payments for the work done upto the date of rescission.

EXECUTION OF WORKS

19.(1) Contractor's understanding: It is understood and agreed that the Contractor has, by careful examination, satisfied himself as to the nature and location of the work, the conformation of the ground, the character, quality and quantity of the materials to be encountered, the character of equipment and facilities needed preliminary to and during the progress of the works, the general and local conditions, the labour conditions prevailing therein and all other matters which can in any way affect the works under the contract.

19.(2) 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

19.(3) Accepted Programme 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 programme 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 organization (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 programme of work amended as necessary by discussions with the Engineer, shall be treated as the agreed programme of the work for the purpose of this contract and the Contractor shall endeavor to fulfill this programme 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 programmed.

In Contracts for works of New Line/Gauge Conversion/Doubling/DFCCIL Electrification, finalized through Tenders having advertised value more than Rs.100 crores, the Contractor 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:

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:

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.

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.

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.

(As per Advance Correction Slip No. 1, Letter No. 2022/CE-I/CT/GCC-2022/Policy Dated-14.07.2022)

- 19.(4) Setting out of Works:** The Contractor shall be responsible for the correct setting out of all works in relation to original points, lines and levels of reference at his cost. The Contractor shall execute the work true to alignment, grade, levels and dimensions as shown in the drawing and as directed by the Engineer's representative and check these at frequent intervals. The Contractor shall provide all facilities like labour and instruments and shall co-operate with the Engineer's representative for checking of all alignment, grades, levels and dimensions. If, at any time, during the progress of the works any error appear or arise in any part of the work, the Contractor, on being required so to do by the Engineer's representative shall, at his own cost rectify such errors, to the satisfaction of the Engineer's representative.

Such checking shall not absolve the Contractor of his own responsibility of maintaining accuracy in the work. The Contractor shall carefully protect and preserve all bench marks, sight rails, pegs and other things used in setting out the work.

- 20.(1) Compliance to Engineer's Instructions:** The Engineer shall direct the sequence in which the several parts of the works shall be executed and the Contractor shall execute without delay all orders given by the Engineer from time to time; but the Contractor shall not be relieved thereby from responsibility for the due performance of the works in all respects.
- 20.(2) Alterations to be Authorized:** No alterations in or additions to or omissions or abandonment of any part of the works shall be deemed authorized, except under written instructions from the Engineer.
- 20.(3) Extra Works:** Should works over and above those included in the contract require to be executed at the site, the Contractor shall have no right to be entrusted with the execution of such works which may be carried out by another Contractor or Contractors or by other means at the option of the DFCCIL.
- 20.(4) Separate Contracts in Connection with Works:** The DFCCIL shall have the right to let other contracts in connection with the works. The Contractor shall afford other Contractors reasonable opportunity for the storage of their materials and the execution of their works and shall properly connect and coordinate his work with theirs. If any part of the Contractor's work depends upon proper execution or result upon the work of another Contractor(s), the Contractor shall inspect and promptly report to the Engineer any defects in such works that render it unsuitable for such proper execution and results. The Contractor's failure so-to inspect and report shall constitute an acceptance of the other Contractor's work

as fit and proper for the reception of his work, except as to defects which may develop in the other Contractor's work after the execution of his work.

21. Instruction of Engineer's Representative: 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.

22.(1) Adherence to Specifications and Drawings: The site and the detailed drawings shall be made available to the contractor commensurate with the accepted programme of work submitted under clause 19(3). The whole of the works shall be executed in perfect conformity with the specifications and drawings of the contract. If Contractor performs any works in a manner contrary to the specifications or drawings or any of them and without such reference to the Engineer, he shall bear all the costs arising or ensuing therefrom and shall be responsible for all loss to the DFCCIL.

22.(2) Drawings and Specifications of the Works: The Contractor shall keep one copy of Drawings and Specifications at the site, in good order, and such contract documents as may be necessary, available to the Engineer or the Engineer's Representative.

22.(3) Ownership of Drawings and Specifications: All Drawings and Specifications and copies thereof furnished by the DFCCIL to the Contractor are deemed to be the property of the DFCCIL. They shall not be used on other works and with the exception of the signed contract set, shall be returned by the Contractor to the DFCCIL on completion of the work or termination of the Contract.

22.(4) Compliance with Contractor's Request for Details: The Engineer shall furnish with reasonable promptness, after receipt by him of the Contractor's request, additional instructions by means of drawings or otherwise, necessary for the proper execution of the works or any part thereof. All such drawings and instructions shall be consistent with the Contract Documents and reasonably inferable there from.

22.(5) Meaning and Intent of Specification and Drawings: If any ambiguity arises as to the meaning and intent of any portion of the Specifications and Drawings

or as to execution or quality of any work or material, or as to the measurements of the works the decision of the Engineer thereon shall be final subject to the appeal (within 7 days of such decision being intimated to the Contractor) to the Chief Engineer who shall have the power to correct any errors, omissions, or discrepancies in aforementioned items and whose decision in the matter in dispute or doubt shall be final and conclusive.

- 23. Working during Night:** The Contractor shall not carry out any 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.
- 24. Damage to DFCCIL Property or Private Life and Property:** The Contractor shall be responsible for all risk to the work and for trespass and shall make good at his own expense all loss or damage whether to the works themselves or to any other property of the DFCCIL or the lives, persons or property of others from whatsoever cause in connection with the works until they are taken over by the DFCCIL, although all reasonable and proper precautions may have been taken by the Contractor. In case the DFCCIL shall be called upon to make good any costs, loss or damages, or to pay any compensation, including that payable under the provisions of the Workmen's Compensation Act or any statutory amendments thereof to any person or persons sustaining damages as aforesaid by reason of any act, or any negligence or omissions on the part of the Contractor; the amount of any costs or charges including costs and charges in connection with legal proceedings, which the DFCCIL may incur in reference thereto, shall be charged to the Contractor. The DFCCIL shall have the power and right to pay or to defend or compromise any claim of threatened legal proceedings or in anticipation of legal proceedings being instituted consequent on the action or default of the Contractor, to take such steps as may be considered necessary or desirable to ward off or mitigate the effect of such proceedings, charging to Contractor, as aforesaid; any sum or sums of money which may be paid and any expenses whether for reinstatement or otherwise which may be incurred and the propriety of any such payment, defense or compromise, and the incurring of any such expenses shall not be called in question by the Contractor.
- 25. Sheds, Storehouses and Yards:** The Contractor shall at his own expense provide himself with sheds, storehouses and yards in such situations and in such numbers as in the opinion of the Engineer is requisite for carrying on the works and the Contractor shall keep at each such sheds, storehouses and yards a sufficient quantity of materials and plant in stock as not to delay the carrying out of the works with due expedition and the Engineer and the Engineer's representative shall have free access to the said sheds, store

houses and yards at any time for the purpose of inspecting the stock of materials or plant so kept in hand, and any materials or plant which the Engineer may object to shall not be brought upon or used in the works, but shall be forthwith removed from the sheds, storehouses or yards by the Contractor. The Contractor shall at his own expenses provide and maintain suitable mortar mills, soaking vats or any other equipment necessary for the execution of the works.

26. Provision of Efficient and Competent Staff at Work Sites by the Contractor:

26.1 The Contractor shall place 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 & labourers in or about the execution of any of these works as are careful and skilled in the various trades.

26.2 The Contractor shall at once remove from the works any agents, permitted sub-contractor, supervisor, workman or labourer who shall be objected to by the Engineer and if and whenever required by the Engineer, he shall submit a correct return showing the names of all staff and workmen employed by him.

26.3 In the event of the Engineer being of the opinion that the Contractor is not employing on the works a sufficient number of staff and workmen as is necessary for proper completion of the works within the time prescribed, the Contractor shall forthwith on receiving intimation to this effect deploy the additional number of staff and labour as specified by the Engineer within seven days of being so required and failure on the part of the Contractor to comply with such instructions will entitle the DFCCIL to rescind the contract under Clause 62 of these conditions.

26A. Deployment of Qualified Engineers at Work Sites by the Contractor:

26A.1 The Contractor shall also employ qualified Graduate Engineer(s) or equivalent, or qualified Diploma Engineer(s), as prescribed in the tender documents.

26A.2 In case the Contractor fails to employ the Engineer, as aforesaid in Para 26A.1, he shall be liable to pay liquidated damages at the rates, as prescribed in the tender documents.

26A.3 No. of qualified Engineers required to be deployed by the Contractor for various activities contained in the works contract shall be specified in the tender documents as 'Special Condition of Contract'.

27.(1) 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 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.

- 27.(2) Removal of Improper Work and Materials:** The Engineer or the Engineer's Representative shall be entitled to order from time to time:
- The removal from the site, within the time specified in the order, of any materials which in his opinion are not in accordance with the specifications or drawings.
 - The substitution of proper and suitable materials, and
 - the removal and proper re-execution, notwithstanding any previous tests thereof or on account payments therefor, of any work which in respect of materials or workmanship is not in his opinion in accordance with the specifications and in case of default on the part of the Contractor in carrying out such order, the DFCCIL shall be entitled to rescind the contract under Clause 62 of these conditions.
 - The provision of Construction and Demolition Waste Management Rule 2016 issued by Ministry of Environment Forest and Climate Change dated 29.03.2016 and published in the Gazette of India, Part – II, Section -3, Sub-section (ii) are binding upon the Contractor. Contractor shall implement these provisions at worksites, for which no extra payment will be payable.
- 28. Facilities for Inspection:** The Contractor shall afford the Engineer and the Engineer's Representative every facility for entering in and upon every portion of the work at all hours for the purpose of inspection or otherwise and shall provide all labour, materials, planks, ladders, pumps, appliances and things of every kind required for the purpose and the Engineer and the Engineer's Representative shall at all times have free access to every part of the works and to all places at which materials for the works are stored or being prepared.
- 29. Examination of Work before Covering Up:** The Contractor shall give 7 days' notice to the Engineer or the Engineer's Representative whenever any work or materials are intended to be covered up in the earth, in bodies or walls or otherwise to be placed beyond the reach of measurements in order that the work may be inspected or that correct dimensions may be taken before being so covered, placed beyond the reach of measurement in default whereof, the same shall at the option of the Engineer or the Engineer's Representative be uncovered and measured at the Contractor's expense or no allowance shall be made for such work or materials.
- 30. Temporary Works:** All temporary works necessary for the proper execution of the works shall be provided and maintained by the Contractor and subject to the consent of the Engineer shall be removed by him at his expenses when they are no longer required and in such manner as the Engineer shall direct. In the event of failure on the part of the Contractor to remove the temporary works,

the Engineer will cause them to be removed and cost as increased by supervision and other incidental charges shall be recovered from the Contractor. If temporary huts are provided by the Contractor on the DFCCIL land for labour engaged by him for the execution of works, the Contractor shall arrange for handing over vacant possession of the said land after the work is completed; if the Contractor's labour refuse to vacate, and have to be evicted by the DFCCIL, necessary expenses incurred by the DFCCIL in connection therewith shall be borne by the Contractor.

31.(1) Contractor to Supply Water for Works: Unless otherwise provided in the Contract, the Contractor shall be responsible for the arrangements to obtain supply of water necessary for the works.

31.(2) Water Supply from DFCCIL/Railways System: The DFCCIL/Railways may supply to the Contractor part or whole of the quantity of the water required for the execution of works from the Railway/DFCCIL's existing water supply system at or near the site of works on specified terms and conditions and at such charges as shall be determined by the DFCCIL/Railways and payable by the Contractor, provided that the Contractor shall arrange, at his own expense, to effect the connections and lay additional pipelines and accessories on the site and that the Contractor shall not be entitled to any compensation for interruption of failure of the water supply.

31.(3) Water Supply by DFCCIL/Railways Transport: In the event of the DFCCIL/Railways arranging supply of water to the Contractor at or near the site of works by travelling water tanks or other means, the freight and other charges incurred thereby, including demurrage charges that may be levied, shall be paid by the Contractor in addition to the charges referred to in Sub-Clause (2) of the Clause provided that the Contractor shall not be entitled to any compensation for interruption or failure of the water supply.

31.(4)(a) Contractor to Arrange Supply of Electric Power for Works: Unless otherwise provided in the contract, the Contractor shall be responsible for arrangements to obtain supply of Electric Power for the works.

(b) Electric Supply from the DFCCIL/Railways System: The DFCCIL/Railways may supply to the Contractor part or whole of the electric power wherever available and possible, required for execution of works from the DFCCIL's existing electric supply systems at or near the site of works on specified terms and conditions and such charges as shall be determined by the DFCCIL/Railways and payable by the Contractor provided the cost of arranging necessary connections to the Railway/DFCCIL's Electric Supply systems and laying of underground/overhead conductor, circuit protection, electric power meters, transmission structure, shall be borne by the Contractor and that the Contractor shall not be entitled to any compensation for interruption or failure of the Electric supply system.

32. Property in Materials and Plant: The materials and plant brought by the Contractor upon the site or on the land occupied by the Contractor in connection with the works and intended to be used for the execution thereof shall immediately be deemed to be the property of the DFCCIL/Railways. Such of them as during the progress of the works are rejected by the Engineer under Clause 25 of these conditions or are declared by him not to be needed for the execution of the works or such as on the grant of the certificate of completion remain unused shall immediately on such rejection, declaration or grant cease

to be deemed the property of the DFCCIL/Railways and the Contractor may then (but not before) remove them from the site or the said land. This clause shall not in any way diminish the liability of the Contractor nor shall the DFCCIL/Railways be in any way answerable for any loss or damage which may happen to or in respect of any such materials or plant either by the same being lost, stolen, injured or destroyed by fire, tempest or otherwise.

- 33.(1) Tools, Plant and Materials Supplied by DFCCIL/Railways:** The Contractor shall take all reasonable care of all tools, plant and materials or other property whether of a like description or not belonging to the DFCCIL/Railways and committed to his charge for the purpose of the works and shall be responsible for all damage or loss caused by him, his agents, permitted sub-contractor, or his workmen or others while they are in his charge. The Contractors shall sign accountable receipts for tools, plants and materials made over to him by the Engineer and on completion of the works shall hand over the unused balance of the same to the Engineer in good order and repair, fair wear and tear excepted, and shall be responsible for any failure to account for the same or any damage done thereto.
- 33.(2) Hire of DFCCIL's Plant:** The DFCCIL may hire to the Contractor such plant as concrete mixers, compressors and portable engines for use during execution of the works on such terms as may be specified in the special conditions or in a separate agreement for Hire of Plant.
- 34.(1) Precaution During Progress of Works:** During the execution of works, unless otherwise specified, the Contractor shall at his own cost provide the materials for and execute all shoring, timbering and strutting works as is necessary for the stability and safety of all structures, excavations and works and shall ensure that no damage, injury or loss is caused or likely to be caused to any person or property.
- 34.(2) Roads and Water Courses:** Existing roads or water courses shall not be blocked cut through, altered, diverted or obstructed in any way by the Contractor, except with the permission of the Engineer. All compensations claimed for any unauthorized closure, cutting through, alteration, diversion or obstruction to such roads or water courses by the Contractor or his agent or his staff shall be recoverable from the Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India.
- 34.(3) Provision of Access to Premises:** During progress of work in any street or thoroughfare, the Contractor shall make adequate provision for the passage of traffic, for securing safe access to all premises approached from such street or thoroughfare and for any drainage, water supply or means of lighting which may be interrupted by reasons of the execution of the works and shall react and maintain at his own cost barriers, lights and other safeguards as prescribed by the Engineer, for the regulation of the traffic, and provide watchmen necessary to prevent accidents. The works shall in such cases be executed night and day, if so ordered by the Engineer and with such vigour so that the traffic way be impeded for as short a time as possible.
- 34.(4) Safety of Public:** The Contractor shall be responsible to take all precautions to ensure the safety of the public whether on public or DFCCIL/Railways property and shall post such look out men as may, in the opinion of the Engineer, be required to comply with regulations appertaining to the work. Contractor shall

ensure placement of barricading / partitions at the place of work to ensure safety of habitants of adjacent area, failing which Engineer may advise stoppage of work as per his discretion.

- 34.(5) 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.
- 35. Use of Explosives:** Explosives shall not be used on the works or on the site by the Contractor without the permission of the Engineer and then also only in the manner and to the extent to which such permission is given. Where explosives are required for the works, they shall be stored in a special magazine to be provided by and at the cost of the Contractor in accordance with the Explosive Rules. The Contractor shall obtain the necessary license for the storage and the use of explosives. All operations in which or for which explosives are employed shall be at the sole risk and responsibility of the Contractor and the Contractor shall indemnify the DFCCIL/Railways in respect thereof.
- 36.(1) Suspension of Works:** The Contractor shall on the order of the Engineer, suspend the progress of the works or any part thereof for such time or times and in such manner as the Engineer may consider necessary and shall during such suspension properly protect and secure the work so far as is necessary in the opinion of the Engineer. If such suspension is:
- Provided for in the contract, or
 - Necessary for the proper execution of the works or by the reason of weather conditions or by some default on the part of the Contractor, and or
 - Necessary for the safety of the works or any part thereof, or
 - Necessary for the safety of adjoining public or other property or safety of the public or workmen or those who have to be at the site, or
 - Necessary to avoid disruption of traffic and utilities, as also to permit fast repair and restoration of any damaged utilities, or
 - Due to instruction of The National Green Tribunal or any other statutory authority due to high level of pollution in the city of worksite.
- 36.(2)** The Contractor shall not be entitled to the extra costs, if any, incurred by him during the period of suspension of the works, but in the event of any suspension ordered by the Engineer for reasons other than aforementioned and when each such period of suspension exceeds 14 days, the Contractor shall be entitled to such extension of time for completion of the works as the Engineer may consider proper having regard to the period or periods of such suspensions and to such compensations as the Engineer may consider reasonable in respect of salaries or wages paid by the Contractor to his employees during the periods of such suspension.

36.(3) Suspension Lasting More than 3 Months: If the progress of the works or any part thereof is suspended on the order of the Engineer for more than three months at a time, the Contractor may serve a written notice on the Engineer requiring permission within 15 days from the receipt thereof to proceed with the works or that part thereof in regard to which progress is suspended and if such permission is not granted within that time the Contractor by further written notice so served may, but is not bound to, elect to treat the suspension where it affects part only of the works as an omission of such part or where it affects the whole of the works, as an abandonment of the contract by the DFCCIL.

37. Rates for Items of Works:

(i) The rates, entered in the accepted Bill(s) of Quantities of the Contract are intended to provide for works duly and properly completed in accordance with the General and Special (if any) Conditions of the Contract and the Specifications and drawings together with such enlargements, extensions, diminutions, reductions, alterations or additions as may be ordered in terms of Clause 42 of these conditions and without prejudice to the generality thereof and shall be deemed to include and cover superintendence and labour, supply, including full freight of materials, stores, patterns, profiles, moulds, fittings, centerings, scaffolding, shoring props, timber, machinery, barracks, tackle, roads, pegs, posts, tools and all apparatus and plant required on the works, except such tools, plant or materials as may be specified in the contract to be supplied to the Contractor by the DFCCIL, the erection, maintenance and removal of all temporary works and buildings, all watching, lighting, bailing, pumping and draining, all prevention of or compensation for trespass, all barriers and arrangements for the safety of the public or of employees during the execution of works, all sanitary and medical arrangements for labour camps as may be prescribed by the DFCCIL, the setting of all work and of the construction, repair and upkeep of all center lines, bench marks and level pegs thereon, site clearance, all fees duties, royalties, rent and compensation to owners for surface damage or taxes and impositions payable to local authorities in respect of land, structures and all material supplied for the work or other duties or expenses for which the Contractor may become liable or may be put to under any provision of law for the purpose of or in connection with the execution of the contract and all such other incidental charges or contingencies as may have been specially provided for in the Specifications.

However, if rates of existing GST or cess on GST for Works Contract is increased or any new tax /cess on Works Contract is imposed by Statute after the date of opening of tender but within the original date of completion/date of completion extended under clause 17 & 17A and the Contractor thereupon properly pays such taxes/cess, the Contractor shall be reimbursed the amount so paid.

Further, if rates of existing GST or cess on GST for Works Contract is decreased or any tax/cess on Works Contract is decreased / removed by Statute after the date of opening of tender, the reduction in tax amount shall be recovered from Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India.

38. Demurrage and Wharfage Dues: Demurrage charges calculated in accordance with the scale in force for the time being on the DFCCIL and

incurred by the Contractor failing to load or unload any goods or materials within the time allowed by the DFCCIL for loading as also wharfage charges, of materials not removed in time, as also charges due on consignments booked by or to him shall be paid by the Contractor, failing which such charges shall be debited to the Contractor's account in the hands of the DFCCIL and shall be deducted from any sums which may become due to him in terms of the contracts.

39.(1) Rates for Extra Item(s) of Works:

- (a) Standard Schedule of Rates (SSOR) Items: Any item of work carried out by the Contractor on the instructions of the Engineer which is not included in the accepted Bill(s) of Quantities but figures in the Standard Schedule of Rates (SSOR), shall be executed at the rates set forth in the "Standard Schedule of Rates (SSOR)" modified by the tender percentage as accepted in the contract for that chapter of Standard Schedule of Rates (SSOR).

For item(s) not covered in this sub clause, the rate shall be decided as agreed upon between the Engineer and the Contractor before the execution of such items of work as per sub clause

- (b) Other Items: For any item of work to be carried out by the Contractor but not included in the accepted Bill(s) of Quantities and also not covered under sub clause (a) above, the Contractor 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 Bill(s) of Quantities does not include rate or rates for such 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 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 Railway 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 item(s) shall be arrived at based on the prevailing market rates of labour, machinery & materials and by taking guidance from the following documents in order of priority:

- i. Analysis of Rates for "Unified Standard Schedule of Rates of Indian Railways (USSOR)"
- ii. Analysis of Rates for "Delhi Schedule of Rates issued by CPWD (DSR)"
- iii. Market Analysis

(As per Advance Correction Slip No. 1, Letter No. 2022/CE-I/CT/GCC-2022/Policy Dated-14.07.2022)

- 39.(2)** Provided that if the Contractor commences work or incurs any expenditure in regard thereto before the rates as determined and agreed upon as lastly hereuntofore-mentioned, then and in such a case the Contractor shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of determination of the rates as aforesaid according to the rates as shall be fixed by the Engineer. However, if the Contractor is not satisfied with the decision of the Engineer in this respect, he may appeal to the

Chief Engineer within 30 days of getting the decision of the Engineer, supported by analysis of the rates claimed. The Chief Engineer's decision after hearing both the parties in the matter would be final and binding on the Contractor and the DFCCIL.

40.(1) Handing over of Works: The Contractor shall be bound to hand over the works executed under the contract to the DFCCIL complete in all respects to the satisfaction of the Engineer. The Engineer shall determine the date on which the work is considered to have been completed, in support of which his certificate shall be regarded as sufficient evidence for all purposes. The Engineer shall determine from time to time, the date on which any particular section of the work shall have been completed, and the Contractor shall be bound to observe any such determination of the Engineer.

40.(2) Clearance of Site on Completion: On completion of the works, the Contractor shall clear away and remove from the site all constructional plant, surplus materials, rubbish and temporary works of every kind and leave the whole of the site and works clean and in a workman like condition to the satisfaction of the Engineer. No final payment in settlement of the accounts for the works shall be paid, held to be due or shall be made to the, Contractor till, in addition to any other condition necessary for final payment, site clearance shall have been affected by him, and such clearance may be made by the Engineer at the expense of the Contractor in the event of his failure to comply with this provision within 7 days after receiving notice to that effect. Should it become necessary for the Engineer to have the site cleared at the expenses of the Contractor, the DFCCIL shall not be held liable for any loss or damage to such of the Contractor's property as may be on the site and due to such removal, there from which removal may be affected by means of public sales of such materials and property or in such a way as deemed fit and convenient to the Engineer.

40A Offloading of Part(s) of Work: At the final stage of completion/ commissioning of work, in case the contractor fails to complete the final part(s) of the work and the value of such part(s) of the work is limited to 5% of the original contract value, the Engineer may allow/decide for offloading of such part(s) of works, either after the Contractor's request in writing to do so or after serving a 14 (Fourteen) days suo-moto notice (as per annexure- VIIA), if the Engineer is of the opinion that :-

- (i) Such Offloading of works (up to 5% of original contract value) would enable successful completion of contract/work,
- (ii) Termination/ Part termination of the contract at this stage is not be in the interest of the DFCCIL/work;, and
- (iii) The anticipated additional cost for execution of such works through other mode would not be substantial and can be recovered from the pending dues of the contractor;

The Contractor shall be informed, in due course, by the Engineer of the mode and cost of execution of such offloaded work through other agency(ies) (as per annexure- VIIB). The extra expenditure so incurred in execution of the offloaded work, shall be recovered from subsequent Bill(s) or any other dues of the Contractor, but not exceeding the value of Performance Guarantee available in

the contract. There shall be no other repercussion of such offloading on execution of the balance contract. The Contractor shall have no claim on account of above-mentioned offloading of works.

VARIATIONS IN EXTENT OF CONTRACT

- 41. 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 DFCCIL 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 DFCCIL unless and until the same is incorporated in a formal instrument and signed by the DFCCIL and the Contractor, and till then the DFCCIL shall have the right to repudiate such arrangements.
- 42.(1) Powers of Modification to Contract:** The Engineer on behalf of the DFCCIL/Railways 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.
- 42.(2)(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 (in which no variation limit shall apply). However, the rates for the increased quantities shall be as per sub- para (iii) below.
- (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.
- (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
- 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;
- 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;
- 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.
- 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 contract value.

- 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;
 - 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;
 - 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.
- (iv) In case of earthwork items, the variation limit of 25% shall apply to the gross quantity of earthwork items and variation in the quantities of individual classifications of soil shall not be subject to this limit.
 - (v) 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).

42.(3) 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 Bill(s) of Quantities. Any extra item(s)/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.

CLAIMS

43.(1) 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.

43.(2) Signing of "No Claim" Certificate: The Contractor shall not be entitled to make any claim whatsoever against the DFCCIL under or by virtue of or arising out of this contract, nor shall the DFCCIL entertain or consider any such claim, if made by the Contractor, after he shall have signed a "No Claim" Certificate in favour of the DFCCIL in such form as shall be required by the DFCCIL after the works are finally measured up. The Contractor shall be debarred from disputing

the correctness of the items covered by "No Claim" Certificate or demanding a clearance to arbitration in respect thereof.

MEASUREMENTS, CERTIFICATES AND PAYMENTS

44. Quantities in Bill(s) of Quantities Annexed to Contract: The quantities set out in the accepted Bill(s) of Quantities with items of works quantified are the estimated quantities of the works and they shall not be taken as the actual and correct quantities of the work to be executed by the Contractor in fulfillment of his obligations under the contract.

45(i). Measurement of Works by DFCCIL: The Contractor shall be paid for the works at the rates in the accepted Bill(s) of Quantities 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 Bill(s) of Quantities 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 Bill(s) of Quantities 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:

- (a) 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.
- (b) 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.

45(ii). Measurement of Works by Contractor's Authorized Representative (in case the contract provides for the same):

- (a) The Contractor shall be paid for the works at the rates in the accepted Bill(s) of Quantities and for extra works at rates determined under Clause 39 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 Bill(s) of Quantities 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 Bill(s) of Quantities 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.

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:

- (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.
 - (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.
- (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:
- (i) On first occasion of noticing exaggerated/ false measurement, Engineer shall recover liquidated damages equal to 10% of claimed gross bill value.
 - (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) above.
- 46.(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 six percent by way of Security Deposits, until the amount of Security Deposit by way of such retentions shall amount to 5% 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.

46.(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 upto ₹1 will be reckoned as ₹ 1.

46.(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/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.

46.(4) If payment(s) of Advances are applicable in the contract, as mentioned in the Tender Documents, DFCCIL shall make payment(s) of Interest bearing advances, on the request of contractor. The payment and recovery of such Advances shall be made as under:

(a): Mobilization Advance – (Not applicable for this tender)

This shall be limited to 10% of the Contract value and shall be paid in 2 stages :

Stage 1– 5% of Contract Value on signing of the contract agreement.

Stage 2 – 5% on mobilization of site-establishment, setting up offices, bringing in equipment and actual commencement of work.

The stage 1 of advance shall be payable immediately after signing of contract agreement.

The stage 2 of advance shall be payable at the time of mobilization, only after submission of an utilization certificate by the contractor that the Stage 1 advance has been properly utilized in the contract.

These Advances shall be payable against irrevocable guarantee (Bank Guarantee, FDRs) from a scheduled commercial bank of India of at least 110% of the value of the sanctioned advance amount (covering principal plus interest).

(b): Advance Against Machinery and Equipment –

This advance shall be limited to a maximum of 10% of the contract value against new Machinery & Equipment, involving substantial outlay, brought to site and essentially required for the work. This advance shall not exceed 75% of the purchase price of such Equipment and shall be payable when Equipment is hypothecated to the President of India by a suitable bond or alternatively covered by an irrevocable Bank Guarantee from a scheduled commercial bank

of India for full cost of the Plant & Equipment in a form acceptable to Railways/DFCCIL. The Plant & Equipment shall be insured for the full value and for the entire period, they are required for the work. This Plant & Equipment shall not be removed from the site of work without prior written permission of the Engineer. No advance should be given against old Plant & Machinery.

The advances under sub clause (a) and (b) above, are subject to the following conditions -

- (i) The full amount of Advances shall be recovered from contractor dues. 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.

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 affected) 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.

- (ii) The advances shall be used by the Contractor for the purpose of the Contract, and for the purpose for which they are paid. Under no circumstances, shall the advances be diverted for other purposes. Any such diversion shall be construed as a breach of the Contract and the Contractor shall be asked to return the advance at once and pay interest at 15% per annum till the advance is recovered back from him. The Contractor shall return the advance and pay the interest in one go without demur. The Contractor, if required by the Engineer shall provide the details of utilization of Mobilization advance.
- (iii) If the Contractor is found to have contravened the provision, it will constitute a breach of contract and DFCCIL shall be entitled to terminate the contract and forfeit his Performance Guarantee as well as Security Deposit.
- (iv) In cases, where the Contract is rescinded as per clause 62 of the contract or short closed under any other condition(s) of the contract, without making full recovery of advances and accrued interest thereon, by the DFCCIL, such balance of advances and accrued interest thereon shall immediately become due and payable by the Contractor to the DFCCIL. The same shall be recovered from any due of Contractor with the Government of India.

46.(5) Manner of Payment: Unless otherwise specified payments to the Contractor will be transferred electronically to his bank account.

46A. Price Variation Clause (PVC): (Not Applicable for this Tender)

46A.1 Applicability: Price Variation Clause (PVC) shall be applicable only in tender having advertised value above **Rs. 2 Crores**. Provided further that, in a contract where PVC is applicable, following shall be outside the purview of price adjustments (i.e., shall be excluded from the gross value of the work for the purpose of price

variation):

- a) Materials supplied by DFCCIL to the Contractors, either free or at fixed rate;
- b) Any extra item(s) included in subsequent variation falling outside the purview of the Bill(s) of Quantities of tender, under clause 39. (1)(b) of these Standard General Conditions, unless applicability of PVC and 'Base Month' has been specially agreed, while fixing the rates of such extra item(s).

(As per Advance Correction Slip No. 1, Letter No. 2022/CE-I/CT/GCC-2022/Policy Dated-14.07.2022)

46A.2 Base Month: The Base Month for 'Price Variation Clause' shall be taken as the one month prior to closing of tender, unless otherwise stated elsewhere. The quarter for applicability of PVC shall commence from the month following the Base month. The Price Variation shall be based on the average Price Index of the quarter under consideration.

46A.3 Validity:

Rates accepted by DFCCIL Administration shall hold good till completion of work and no additional individual claim shall be admissible except:

- (a) Payment/recovery for increase/decrease in GST on works contract or imposition/removal of any tax/cess on Works Contract as per Clause 37,
- (b) Payment/recovery for overall market situation as per Price Variation Clause given hereunder.

46A.4 Components of various items in a contract on which variation in prices be admissible, shall be steel, cement, ferrous material, non-ferrous material, insulators, zinc and other materials, labour, plant & machinery, fuel, explosives, detonators etc. Adjustment for variation in prices of these items shall be determined in the manner prescribed.

46A.5 No price variation shall be admissible for fixed components.

46A.6 The percentages of various components in various type of works shall be as specified for all item (s)/ Bill(s) of Quantities in tender document and the same shall be fixed as per table & classifications given below:

(I). For Civil Engineering Works: Deleted

(II) For DFCCIL Electrification Works:

(viii) $T = [0.4136x(CQ - CB) / CB] \times 85$

(ix) $R = [0.94x(RT - RO) / RO + 0.06x(ZT - ZO) / ZO] \times 85$

(x) $N = [(PT - PO) / PO] \times 85$

(xi) $I = [(IT - IO) / IO] \times 85$

(xii) $G = [(MQ - MB) / MB] \times 85$

(xiii) $Er = [(LQ - LB) / LB] \times 85$

Where,

L: Amount of price variation in Labour

M: Amount of price variation in Materials

F: Amount of price variation in Fuel

E: Amount of price variation in Explosives

PM: Amount of price variation in Plant, Machinery and Spares

S: Amount of price variation in Steel Supply Item

C: Amount of price variation in Cement Supply Item

T: Percentage variation payable on the gross value of bill of Concreting (Bill(s) of Quantities for concrete items)
R: Percentage variation payable on the gross value of bill of Ferrous Items (Bill(s) of Quantities for ferrous items)
N: Percentage variation payable on the gross value of bill of Non-Ferrous Items (Bill(s) of Quantities for non-ferrous items)
I: Percentage variation payable on the gross value of bill of Insulator (Bill(s) of Quantities for Insulator items)
G: Percentage variation payable on the gross value of bill of General Works (Bill(s) of Quantities for General items)
Er: Percentage variation payable on the gross value of erection (Bill(s) of Quantities for Erection Item)
LC % of Labour Component in the item(s)
MC % of Material Component in the item(s)
FC % of Fuel Component in the item(s)
EC % of Explosive Component in the item(s)
PMC % of Plant, Machinery and Spares Component in the item(s)
SC % of Steel Supply item Component in the item(s)
CC % of Cement Supply item Component in the item(s)
W Gross value of work done by Contractor as per on-account bill(s) excluding the Gross value of work under WS or/and WC or/and WSF or/and WF or/and WSFL or/and WFL and cost of materials supplied by Railway either free or at fixed rate, WS Gross value of work done by Contractor for item(s) of supply of steel.
WC Gross value of work done by Contractor for item(s) of supply of cement and /or supply of grout material.
WSF Gross value of work done by Contractor for item(s) of Fabrication & Erection of Structures including supply of Steel.
WF Gross value of work done by Contractor for Fabrication & Erection of Structures excluding supply of Steel.
WSFL Gross value of work done by Contractor for item(s) of Fabrication, Assembly, Erection / Launching of Girders including supply of Steel.
WFL Gross value of work done by Contractor for item(s) of Fabrication, Assembly, Erection / Launching of Girders excluding supply of Steel.
LB Consumer Price Index for Industrial Workers - All India: Published in R.B.I. Bulletin for the base period
LQ Consumer Price Index for Industrial Workers - All India: Published in R.B.I. Bulletin for the average price index of the 3 months of the quarter under consideration
MB Wholesale Price Index: All commodities – as published in the R.B.I. Bulletin for the base period
MQ Wholesale Price Index: All commodities – as published in the R.B.I. Bulletin for the average price index of the 3 months of the quarter under consideration
FB The average of official prices of Diesel available on the official website of 'Petroleum Planning and Analysis cell' under Ministry of Petroleum and Natural Gas for Delhi, Kolkata, Mumbai & Chennai, for the base period
FQ The average of official prices of Diesel available on the official website of 'Petroleum Planning and Analysis cell' under Ministry of Petroleum and Natural Gas for Delhi, Kolkata, Mumbai & Chennai, for the 3 months of the quarter under

consideration

EB Index number of Monthly Whole Sale Price Index for the category 'Explosive' of (g). Manufacture of other chemical products under (J) MANUFACTURE OF CHEMICALS AND CHEMICAL PRODUCTS, published by Office of Economic Adviser, Govt. of India, Ministry of Commerce & Industry, Department of Industrial Policy & Promotion (DIPP), for the base period.

EQ Index number of Monthly Whole Sale Price Index for the category 'Explosive' of (g). Manufacture of other chemical products under (J) MANUFACTURE OF CHEMICALS AND CHEMICAL PRODUCTS, published by Office of Economic Adviser, Govt. of India, Govt. of India, Ministry of Commerce & Industry, Department of Industrial Policy & Promotion (DIPP), for the average price index of 3 months of the quarter under consideration.

PMB Index Number of Wholesale Prices in India by Groups and Sub Groups (Averages) for 'Manufacture of machinery for mining, quarrying and construction'– published in RBI (Reserve Bank of India) Bulletin, for the base period.

PMQ Index Number of Wholesale Prices in India by Groups and Sub Groups (Averages) for 'Manufacture of machinery for mining, quarrying and construction'– published in RBI (Reserve Bank of India) Bulletin, for the average price index of 3 months of the quarter under consideration.

SB The average rate provided by the Joint Plant Committee for the relevant category of steel item as mentioned in Clause 46A.9; for the base period.

SQ The average rate provided by the Joint Plant Committee for the relevant category of steel item as mentioned in Clause 46A.9; for the 3 months of the quarter under consideration.

CB Index No. of Wholesale Price Index of sub-group Cement, Lime & Plaster as published in RBI Bulletin for the base period

CQ No. of Wholesale Price Index of sub-group Cement, Lime & Plaster as published in RBI Bulletin for the average price index of the 3 months of the quarter under consideration

RT IEEMA price index for Steel Blooms (size 150mmx150mm) for the month which is two months prior to date of inspection of material.

RO IEEMA price index for Steel Blooms (size 150mmx150mm) for the month which is one month prior to date of opening of tender.

PT IEEMA price index for Copper wire rods for the month which is two months prior to date of inspection of material.

PO IEEMA price index for Copper wire rods for the month which is one month prior to date of opening of tender.

ZT IEEMA price index for Zinc for the month which is two months prior to date of inspection of material

ZO IEEMA price index for Zinc for the month which is one month prior to date of opening of tender

IT RBI wholesale price index for the sub-group "Insulators" for the month which is two months prior to date of inspection of material

IO RBI wholesale price index for the sub-group "Insulators" for the month which is one month prior to date of opening of tender.

(III) SIGNALING & TELECOMMUNICATION WORKS: Deleted

46A.10 Price Variation during Extended Period of Contract

The price adjustment as worked out above, i.e. either increase or decrease shall be applicable upto the stipulated date of completion of work including the extended period of completion where such extension has been granted under Clause 17A of the Standard General Conditions of Contract. However, where extension of time has been granted due to Contractor's failure under Clause 17B of the Standard General Conditions of Contract, price adjustment shall be done as follows:

- a. In case the indices increase above the indices applicable to the last month of original completion period or the extended period under Clause 17A, the price adjustment for the period of extension granted under Clause 17B shall be limited to the amount payable as per the Indices applicable to the last month of the original completion period or the extended period under Clause 17A of the Standard General Conditions of Contract; as the case may be.
- b. In case the indices fall below the indices applicable to the last month of original/ extended period of completion under Clause 17A, as the case may be; then the lower indices shall be adopted for the price adjustment for the period of extension under Clause 17B of the Standard General Conditions of Contract.

47. Maintenance of Works: The Contractor shall at all times during the progress and continuance of the works and also for the period of maintenance specified in the Tender Form after the date of issue of the certificate of completion by the Engineer or any other earlier date subsequent to the completion of the works that may be fixed by the Engineer, be responsible for and effectively maintain and uphold in good substantial, sound and perfect condition all and every part of the works and shall make good from time to time and at all times as often as the Engineer shall require, any damage or defect that may during the above period arise in or be discovered or be in any way connected with the works, provided that such damage or defect is not directly caused by errors in the contract documents, act of providence or insurrection or civil riot, and the Contractor shall be liable for and shall pay and make good to the DFCCIL or other persons legally entitled thereto whenever required by the Engineer so to do, all losses, damages, costs and expenses they or any of them may incur or be put or be liable to by reasons or in consequence of the operations of the Contractor or of his failure in any respect.

48.(1) Certificate of Completion of Works: As soon as in the opinion of the Engineer, the work has been completed and has satisfactorily passed any final test or tests that may be prescribed, the Engineer shall issue a certificate of completion duly indicating the date of completion in respect of the work and the period of maintenance of the work shall commence from the date of completion mentioned in such certificate. The certificate, inter alia, should mention that the work has been completed in all respects and that all the contractual obligations have been fulfilled by the Contractor and that there is no due from the Contractor to DFCCIL/Railways against the contract concerned.

The Engineer may also issue such a certificate indicating date of completion with respect to any part of the work (before the completion of the whole of work), which has been both completed to the satisfaction of the Engineer and occupied or used by the Railways /DFCCIL. When any such certificate is given in respect of part of a work, such part shall be considered as completed and the period of

maintenance of such part shall commence from the date of completion mentioned in the completion certificate issued for that part of the work.

- 48.(2) Contractor not Absolved by Completion Certificate:** The Certificate of Completion in respect of the works referred to in Sub-Clause (1) of this Clause shall not absolve the Contractor from his liability to make good any defects imperfections, shrinkages or faults which may appear during the period of maintenance specified in the tender arising in the opinion of the Engineer from materials or workmanship not in accordance with the drawings or specifications or instruction of the Engineer, which defects, imperfections, shrinkages or faults shall upon the direction in writing of the Engineer be amended and made good by the Contractor at his own cost; and in case of default on the part of Contractor, the Engineer may employ labour and materials or appoint another Contractor to amend and make good such defects, imperfections, shrinkages and faults and all expenses consequent thereon and incidental thereto shall be borne by the Contractor and shall be recoverable from any moneys due to him under the contract.
- 48(3) Final Supplementary Agreement:** After the work is completed or otherwise concluded by the parties with mutual consent, and taken over by the DFCCIL as per terms and conditions of the contract agreement, and there is unequivocal no claim on either side under the Contract other than as mentioned in item 4 of Annexure XIV, the parties shall execute the Final Supplementary Agreement as per Annexure XIV.
- 49. Approval only by Maintenance Certificate:** No certificate other than Maintenance Certificate, if applicable, referred to in Clause 50 of the Conditions shall be deemed to constitute approval of any work or other matter in respect of which it is issued or shall be taken as an admission of the due performance of the contract or any part thereof.
- 50.(1) Maintenance Certificate:** The Contract shall not be considered as completed until a Maintenance Certificate, if applicable, shall have been signed by the Engineer stating that the works have been completed and maintained to his satisfaction. The Maintenance Certificate shall be given by the Engineer upon the expiration of the period of maintenance or as soon thereafter as any works ordered during such period pursuant to Sub Clause (2) to Clause 48 of these Conditions shall have been completed to the satisfaction of the Engineer, and full effect shall be given to this Clause notwithstanding the taking possession of or using the works or any part thereof by the DFCCIL.
The Competent Authority to issue above Maintenance Certificate shall normally be the authority who is competent to sign the contract. If this Competent Authority is of the rank lower than JA Grade, then a JA Grade Officer (concerned with the work) should issue the Certificate. The Certificate, inter alia, should mention that the work has been completed in all respects and that all the contractual obligations have been fulfilled by the Contractor and that there is no due from the Contractor to DFCCIL against the contract concerned.
- 50.(2) Cessation of DFCCIL's Liability:** The DFCCIL shall not be liable to the Contractor for any matter arising out of or in connection with the contract for execution of the works unless the Contractor has made a claim in writing in

respect thereof before the issue of the Maintenance Certificate under this clause.

50.(3) Unfulfilled Obligations: Notwithstanding the issue of the Maintenance Certificate the Contractor and (subject to Sub-Clause (2) of this Clause) the DFCCIL shall remain liable for the fulfillment of any obligation incurred under the provision of the contract prior to the issue of the Maintenance Certificate which remains unperformed at the time such Certificate is issued and for the purposes of determining the nature and extent of any such obligations, the contract shall be deemed to remain in force between the parties thereto.

51.(1) 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 upto the date of completion and on the rates accepted in Bill(s) of Quantities 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), 39.1, 39.2, 40A, 43(2), 45(i)(a), 55, 55-A(5), 57, 57A, 61(1), 61(2) and 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, 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.

51.(2) 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.

51-A. Production of Vouchers etc. by the Contractor:

- (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.

- (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.
- (iii) The obligations 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.

52. Withholding and Lien in Respect of Sums Claimed: Whenever any claim or claims for payment of a sum of money arises out of or under the contract against the Contractor, the DFCCIL shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any, deposited by the Contractor and for the purpose aforesaid, the DFCCIL shall be entitled to withhold the said cash Security Deposit or the Security if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the Contractor, the DFCCIL shall be entitled to withhold and have a lien to the extent of the such claimed amount or amounts referred to supra, from any sum or sums found payable or which at any time thereafter may become payable to the Contractor under the same contract or any other contract with this or any other DFCCIL or any Department of the Central Government pending finalization or adjudication of any such claim.

It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above, by the DFCCIL will be kept withheld or retained as such by the DFCCIL till the claim arising out of or under the contract is determined by the arbitrator (if the contract governed by the Arbitration Clause) or by the competent court as the case may be and that the Contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to supra and duly notified as such to the Contractor. For the purpose of this clause, where the Contractor is a partnership firm or a company, the DFCCIL shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner / company, as the case may be whether in his individual capacity or otherwise.

52-A Lien in Respect of Claims in other Contracts:

- (i) Any sum of money due and payable to the Contractor (including the Security Deposit returnable to him) under the contract may be withheld or retained by way of lien by the DFCCIL, against any claim of this or any other DFCCIL or any other Department of the Central Government in respect of payment of a sum of money arising out of or under any other contract made by the Contractor with this or any other Department of the Central Government.
- (ii) However, recovery of claims of DFCCIL in regard to terminated contracts may be made from the Final Bill, Security Deposits and Performance Guarantees of other contract or contracts, executed by the Contractor. The Performance Guarantees submitted by the Contractor against other contracts, if required, may be withheld and encashed. In addition, 10% of each subsequent 'on-account bill' may be withheld, if required, for recovery of DFCCIL's dues against the terminated contract.
- (iii) It is an agreed term of the contract that the sum of money so withheld or retained under this Clause by the DFCCIL will be kept withheld or retained as such by the DFCCIL till the claim arising out of or under any other contract is either mutually settled or determined by arbitration, if the other contract is governed by Arbitration Clause or by the competent court as the case may be and Contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this Clause and duly notified as such to the Contractor.
- 53. Signature on Receipts for Amounts:** Every receipt for money which may become payable or for any security which may become transferable to the Contractors under these presents, shall, if signed in the partnership name by anyone of the partners of a Contractor's firm be a good and sufficient discharge to the DFCCIL in respect of the moneys or security purported to be acknowledged thereby and in the event of death of any of the Contractor, partners during the pendency of the contract, it is hereby expressly agreed that every receipt by anyone of the surviving Contractor partners shall if so signed as aforesaid be good and sufficient discharge as aforesaid provided that nothing in this Clause contained shall be deemed to prejudice or effect any claim which the DFCCIL may hereafter have against the legal representative of any Contractor partner so dying for or in respect to any breach of any of the conditions of the contract, provided also that nothing in this clause contained shall be deemed to prejudice or effect the respective rights or obligations of the Contractor partners and of the legal representatives of any deceased Contractor partners interse.

LABOUR

- 54. Wages to Labour:** The Contractor shall be responsible to ensure compliance with the provision of the Minimum Wages Act, 1948 (hereinafter referred to as the "said Act") and the Rules made thereunder in respect of any employees directly or through petty Contractors or sub-contractors employed by him for the purpose of carrying out this contract.
- If, in compliance with the terms of the contract, the Contractor supplied any labour

to be used wholly or partly under the direct orders and control of the DFCCIL whether in connection with any work being executed by the Contractor or otherwise for the purpose of the DFCCIL such labour shall, for the purpose of this Clause, still be deemed to be persons employed by the Contractor.

If any moneys shall, as a result of any claim or application made under the said Act be directed to be paid by the DFCCIL, such money shall be deemed to be moneys payable to the DFCCIL by the Contractor and on failure by the Contractor to repay the DFCCIL any moneys paid by it as aforesaid within seven days after the same shall have been demanded, the DFCCIL shall be entitled to recover the same from Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India.

54-A. Apprentices Act: The Contractor shall be responsible to ensure compliance with the provisions of the Apprentices Act, 1961 and the Rules and Orders issued thereunder from time to time in respect of apprentices directly or through petty Contractors or sub-contractors employed by him for the purpose of carrying out the Contract.

If the Contractor directly or through petty Contractors or sub-contractors fails to do so, his failure will be a breach of the contract and the DFCCIL may, in its discretion, rescind the contract. The Contractor shall also be liable for any pecuniary liability arising on account of any violation of the provisions of the Act.

55. Provisions of Payments of Wages Act: The Contractor shall comply with the provisions of the Payment of Wages Act, 1936 and the rules made thereunder in respect of all employees employed by him either directly or through petty Contractors or sub-contractors in the works. If in compliance with the terms of the contract, the Contractor directly or through petty Contractors or sub-contractors shall supply any labour to be used wholly or partly under the direct orders and control of the Engineer whether in connection with the works to be executed hereunder or otherwise for the purpose of the Engineer, such labour shall nevertheless be deemed to comprise persons employed by the Contractor and any moneys which may be ordered to be paid by the Engineer shall be deemed to be moneys payable by the Engineer on behalf of the Contractor and the Engineer may on failure of the Contractor to repay such money to the DFCCIL deduct the same from any moneys due to the Contractor in terms of the contract. The DFCCIL shall be entitled to recover the same from Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India all moneys paid or payable by the DFCCIL by way of compensation of aforesaid or for costs of expenses in connection with any claim thereto and the decision of the Engineer upon any question arising out of the effect or force of this Clause shall be final and binding upon the Contractor.

55-A. Provisions of Contract Labour (Regulation and Abolition) Act, 1970:

55-A.(1) The Contractor shall comply with the provision of the contract labour (Regulation and Abolition) Act, 1970 and the Contract labour (Regulation and Abolition) Central Rules 1971 as modified from time to time, wherever applicable and shall also indemnify the DFCCIL from and against any claims under the aforesaid Act and the Rules.

55-A.(2) The Contractor shall obtain a valid license under the aforesaid Act as modified from time to time before the commencement of the work and continue to have a valid license until the completion of the work. Any failure to fulfill the

requirement shall attract the penal provision of the Act.

55-A.(3) The Contractor shall pay to the labour employed by him directly or through sub-contractors the wages as per provision of the aforesaid Act and the Rules wherever applicable. The Contractor shall notwithstanding the provisions of the contract to the contrary, cause to be paid the wages to labour, indirectly engaged on the works including any engaged by sub-contractors in connection with the said work, as if the labour had been immediately employed by him.

55-A.(4) In respect of all labour directly or indirectly employed in the work for performance of the Contractor's part of the contract, the Contractor shall comply with or cause to be complied with the provisions of the aforesaid Act and Rules wherever applicable.

55-A.(5) In every case in which, by virtue of the provisions of the aforesaid Act or the rules, the DFCCIL is obliged to pay any amount of wages to a workman employed by the Contractor or his sub-contractor in execution of the work or to incur any expenditure on account of the contingent, liability of the DFCCIL due to the Contractor's failure to fulfill his statutory obligations under the aforesaid Act or the rules, the DFCCIL will recover from the Contractor, the amount of wages so paid or the amount of expenditure so incurred and without prejudice to the rights of the DFCCIL under the Section 20, Sub-Section (2) and Section 2, Sub-Section (4) of the aforesaid Act, the DFCCIL shall be at liberty to recover such amount or part thereof from Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India. The DFCCIL shall not be bound to contest any claim made against it under Sub-Section (1) of Section 20 and Sub-Section (4) of Section 21 of the aforesaid Act except on the written request of the Contractor and upon his giving to the DFCCIL full security for all costs for which the DFCCIL might become liable in contesting such claim. The decision of the Chief Engineer regarding the amount actually recoverable from the Contractor as stated above shall be final and binding on the Contractor.

55-B.Provisions of Employees Provident Fund and Miscellaneous Provisions Act, 1952:The Contractor shall comply with the provisions of Para 30 & 36-B of the Employees Provident Fund Scheme, 1952; Para 3 & 4 of Employees' Pension Scheme, 1995; and Para 7 & 8 of Employees Deposit Linked Insurance Scheme, 1976; as modified from time to time through enactment of "Employees Provident Fund & Miscellaneous Provisions Act, 1952", wherever applicable and shall also indemnify the DFCCIL from and against any claims under the aforesaid Act and the Rules.

55-C (i) Contractor is to abide by the provisions of various labour laws in terms of above clause 54, 55, 55-A and 55-B of the Standard General Conditions of Contract. In order to ensure the same, an application has been developed and hosted on website 'www.shramikkalyan.indianrailwayss.gov.in'. Contractor shall register his firm/company etc. and upload requisite details of labour and their payment in this portal. These details shall be available in public domain. The registration/ updation in Portal shall be done as under:

(a) Contractor shall apply for onetime registration of his company/firm etc. in the Shramik Kalyan portal with requisite details subsequent to issue of Letter of Acceptance. Engineer shall approve the contractor's registration in the portal within 7 days of receipt of such request.

- (b) Contractor once approved by any Engineer, can create password with login ID (PAN No.) for subsequent use of portal for all Letter of Acceptances (LoAs) issued in his favour.
- (c) The contractor once registered on the portal, shall provide details of his Letter of Acceptances (LoAs) / Contract Agreements on shramik Kalyan portal within 15 days of issue of any LoA for approval of concerned Engineer. Engineer shall update (if required) and approve the details of LoA filled by contractor within 7 days of receipt of such request.
- (d) After approval of LoA by Engineer, contractor shall fill the salient details of contract labours engaged in the contract and ensure updating of each wage payment to them on shramik Kalyan portal on monthly basis.
- (e) It shall be mandatory upon the contractor to ensure correct and prompt uploading of all salient details of engaged contractual labour & payments made thereof after each wage period.
- (ii) While processing payment of any 'On Account Bill' or 'Final Bill' or release of 'Advances' or 'Performance Guarantee / Security Deposit', contractor shall submit a certificate to the Engineer or Engineer's representatives that "I have uploaded the correct details of contract labours engaged in connection with this contract and payments made to them during the wage period in DFCCIL's Shramik Kalyan portal at 'www.shramikkalyan.indianrailways.gov.in' till ____Month, ____Year."

55-D. Provisions of "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, shall get themselves registered with the Registering Officer under Section-7 of the Building and Other Construction Workers Act, 1996 and Rules made thereto by the concerned State Govt., and submit Certificate of Registration issued by Registering Officer of the concerned State Govt. (Labour Dept.). The Cess shall be deducted from contractor's bills as per provisions of the Act.

56. Reporting of Accidents: The Contractor shall be responsible for the safety of all employees directly or through petty Contractors or sub-contractor employed by him on the works and shall report serious accidents to any of them however and wherever occurring on the works to the Engineer or the Engineers Representative and shall make every arrangement to render all possible assistance.

57. Provision of Workmen's Compensation Act: In every case in which by virtue of the provisions of Section 12 Sub-Section (1) of the Workmen's Compensation Act 1923, Railways /DFCCIL is obliged to pay compensation to a workman directly or through petty Contractor or sub-contractor employed by the Contractor in executing the work, Railways /DFCCIL will recover from the Contractor the amount of the compensation so paid, and, without prejudice to the rights of DFCCIL under Section 12 Sub-section (2) of the said Act, Railways shall be at liberty to recover such amount or any part thereof from Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India. Railways shall not be

bound to contest any claim made against it under Section 12 Sub-Section (1) of the said Act except on the written request of the Contractor and upon his giving to Railways full security for all costs for which DFCCIL/Railways might become liable in consequence of contesting such claim.

57-A. Provision of Mines Act: The Contractor shall observe and perform all the provisions of the Mines Act, 1952 or any statutory modifications or re-enactment thereof for the time being in force and any rules and regulations made thereunder in respect of all the persons directly or through the petty Contractors or sub-contractors employed by him under this contract and shall indemnify the DFCCIL from and against any claims under the Mines Act, or the rules and regulations framed thereunder, by or on behalf of any persons employed by him or otherwise.

58. DFCCIL not to Provide Quarters for Contractors: No quarters shall normally be provided by the DFCCIL 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 DFCCIL's discretion, recoveries shall be made at such rates as may be fixed by the DFCCIL for the full rent of the buildings and equipment therein as well as charges for electric current, water supply and conservancy.

59.(1) Labour Camps: The Contractor shall at his own expense make adequate arrangements for the housing, supply of drinking water and provision of latrines and urinals for his staff and workmen, directly or through the petty Contractors or sub-contractors and for temporary creche (Bal-Mandir) where 50 or more women are employed at a time. Suitable sites on DFCCIL land, if available, may be allotted to the Contractor for the erection of labour camps, either free of charge or on such terms and conditions that may be prescribed by the DFCCIL. All camp sites shall be maintained in clean and sanitary conditions by the Contractor at his own cost.

59.(2) Compliance to Rules for Employment of Labour: The Contractor(s) shall conform to all laws, bye-laws rules and regulations for the time being in force pertaining to the employment of local or imported labour and shall take all necessary precautions to ensure and preserve the health and safety of all staff employed directly or through petty contractors or sub-contractors on the works.

59.(3) Preservation of Peace: The Contractor shall take requisite precautions and use his best endeavors to

- (i) Prevent any riotous or unlawful behaviors by or amongst his workmen and other employed directly or through the petty Contractors or sub-contractors on the works and for the preservation of peace and protection of the inhabitants and
- (ii) Security of property in the neighborhood of the works. In the event of the DFCCIL requiring the maintenance of a Special Police Force at or in the vicinity of the site during the tenure of works, the expenses thereof shall be borne by the Contractor and if paid by the DFCCIL shall be recoverable from the Contractor.

59.(4) Sanitary Arrangements: The Contractor shall obey all sanitary rules and carry out all sanitary measures that may from time to time be prescribed by the DFCCIL Medical Authority and permit inspection of all sanitary arrangements at all times by the Engineer, the Engineer's Representative or the Medical Staff of the DFCCIL. Should the Contractor fail to make the adequate sanitary arrangements, these will be provided by the DFCCIL and the cost thereof

recovered from the Contractor.

- 59.(5) Outbreak of Infectious Disease:** The Contractor shall remove from his camp such labour and their families as refuse protective inoculation and vaccination when called upon to do so by the Engineer or the Engineer's Representative on the advice of the DFCCIL Medical Authority. Should cholera, plague, or other infectious disease break out, the Contractor shall burn the huts, beddings, clothes and other belongings of or used by the infected parties and promptly erect new huts on healthy sites as required by the Engineer, failing which within the time specified in the Engineer's requisition, the work may be done by the DFCCIL and the cost thereof recovered from the Contractor.
- 59.(6) Treatment of Contractor's Staff in Railways Hospitals:** The Contractor and his staff, other than labourers and their families requiring medical aid from the Railways hospital and dispensaries will be treated as private patients and charged accordingly. The Contractors' labourers and their Families will be granted free treatment in Railways hospitals and dispensaries where no other hospitals or dispensaries are available provided the Contractor pays the cost of medicines, dressing and diet money according to the normal scale and additional charges for special examinations such as pathological and bacteriological examination, X-Ray, etc. and for surgical operation.
- 59. (7) Medical Facilities at Site:** The Contractor shall provide medical facilities at the site as may be prescribed by the Engineer on the advice of the Railways Medical Authority in relation to the strength of the Contractor's resident staff and workmen.
- 59. (8) Use of Intoxicants:** The sale of ardent spirits or other intoxicating beverages upon the work or in any of the buildings, encampments or tenements owned, occupied by or within the control of the Contractor or any of his employees shall be forbidden and the Contractor shall exercise his influence and authority to the utmost extent to secure strict compliance with this condition.
- 59.(9) Restrictions on the Employment of Retired Engineers of DFCCIL Services Within One Year of their Retirement:** The Contractor shall not, if he is a retired Government Engineer of Gazetted rank, himself engage in or employ or associate a retired Government Engineer of Gazetted rank, who has not completed one year from the date of retirement, in connection with this contract in any manner whatsoever without obtaining prior permission of the President and if the Contractor is found to have contravened this provision it will constitute a breach of contract and administration will be entitled to terminate the contract and forfeit his Performance Guarantee as well as Security Deposit.
- 60.(1) Non-Employment of Labourers below the age of 15:** The Contractor shall not employ children below the age of 15 as labourers directly or through petty Contractors or sub-contractors for the execution of work.
- 60.(2) Medical Certificate of Fitness for Labour:** It is agreed that the Contractor shall not employ a person above 15 and below 19 years of age for the purpose of execution of work under the contract unless a medical certificate of fitness in the prescribed form (Proforma at Annexure-VIII) granted to him by a certifying surgeon certifying that he is fit to work as an adult, is obtained and kept in the custody of the Contractor or a person nominated by him in this behalf and the person carries with him, while at work; a token giving a reference to such certificate. It is further agreed that the responsibility for having the adolescent

examined medically at the time of appointment or periodically till he attains the age of 19 years shall devolve entirely on the Contractor and all the expenses to be incurred on this account shall be borne by him and no fee shall be charged from the adolescent or his parent for such medical examination.

60.(3) Period of Validity of Medical Fitness Certificate: A certificate of fitness granted or renewed for the above said purposes shall be valid only for a period of one year at a time. The certifying surgeon shall revoke a certificate granted or renewed if in his opinion the holder of it, is no longer fit for work in the capacity stated therein. Where a certifying surgeon refuses to grant or renew a certificate or revoke a certificate, he shall, if so required by the person concerned, state his reasons in writing for doing so.

60.(4) Medical Re-Examination of Labourer: Where any official appointed in this behalf by the Ministry of Labour is of the opinion that any person employed in connection with the execution of any work under this contract in the age group 15 to 19 years is without a certificate of fitness or is having a certificate of fitness but no longer fit to work in the capacity stated in the certificate, he may serve on the Contractor, or on the person nominated by him in this regard, a notice requiring that such persons shall be examined by a certifying surgeon and such person shall not if the concerned official so directs, be employed or permitted to do any work under this contract unless he has been medically examined and certified that he is fit to work in the capacity stated in the certificate.

EXPLANATIONS:

- (1) Only Qualified Medical Practitioners can be appointed as "Certifying Surgeons" and the term "Qualified Medical Practitioners" means a person holding a qualification granted by an authority specified in the Schedule to the Indian Medical Degrees Act, 1916 (VII to 1916) or in the Schedule to the Indian Medical Council Act, 1933 (XXVII) of 1933.
- (2) The Certifying surgeon may be a medical officer in the service of State or Municipal Corporation.

DETERMINATION OF CONTRACT

61.(1) Right of DFCCIL to Determine the Contract: The DFCCIL shall be entitled to determine and terminate the contract at any time should, in the DFCCIL's opinion, the cessation of work becomes necessary owing to paucity of funds or from any other cause whatever, in which case the value of approved materials at site and of work done to date by the Contractor will be paid for in full at the rate specified in the contract. Notice in writing from the DFCCIL of such determination and the reasons therefor shall be conclusive evidence thereof.

61.(2) Payment on Determination of Contract: Should the contract be determined under sub clause (1) of this clause and the Contractor claims payment for expenditure incurred by him in the expectation of completing the whole of the work, the DFCCIL shall admit and consider such claims as are deemed reasonable and are supported by vouchers to the satisfaction of the Engineer. The DFCCIL's decision on the necessity and propriety of such expenditure shall be final and conclusive.

61.(3) The Contractor shall have no claim to any payment of compensation or otherwise, howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of determination of contract.

62.(1) Determination of Contract owing to Default of Contractor:

If the Contractor should:

- (i) Becomes bankrupt or insolvent, or
- (ii) Make an arrangement for assignment in favour of his creditors, or agree to carry out the contract under a Committee of Inspection of his creditors, or
- (iii) Being a Company or Corporation, go into liquidation (other than a voluntary liquidation for the purposes of amalgamation or reconstruction), or
- (iv) Have an execution levied on his goods or property on the works, or
- (v) Assign the contract or any part thereof otherwise than as provided in Clause 7 of these Conditions, or
- (vi) Abandon the contract, or
- (vii) Persistently disregard the instructions of the Engineer, or contravene any provision of the contract, or
- (viii) Fail to adhere to the agreed programme of work by a margin of 10% of the stipulated period, or
- (ix) Fail to Execute the contract documents in terms of Para 8 of the Instructions to Tenderers.
- (x) Fail to submit the documents pertaining to identity of JV and PAN in terms of Para 17.11 of Part III available in the Tender document.
- (xi) Fail to remove materials from the site or to pull down and replace work after receiving from the Engineer notice to the effect that the said materials or works have been condemned or rejected under Clause 25 and 27 of these Conditions, or
- (xii) Fail to take steps to employ competent or additional staff and labour as required under Clause 26 of these Conditions, or
- (xiii) Fail to afford the Engineer or Engineer's representative proper facilities for inspecting the works or any part thereof as required under Clause 28 of these Conditions, or
- (xiv) Promise, offer or give any bribe, commission, gift or advantage either himself or through his partner, agent or servant to any officer or employee of the DFCCIL or to any person on his or on their behalf in relation to the execution of this or any other contract with this DFCCIL.
- (xv) Fail to adhere to the provisions of Para 16 of Part III of Tender Document of the Instructions to Tenderers, or provision Clause 59(9) of these Conditions.
- (xvi) Submits copy of fake documents / certificates in support of credentials, submitted by the tenderer

Then and in any of the **said Clause**, the Engineer on behalf of the DFCCIL may serve the Contractor with a notice (Proforma at Annexure-IX) in writing to that effect and if the Contractor does not within seven days after the delivery to him of such notice proceed to make good his default in so far as the same is capable of being made good and carry on the work or comply with such directions as aforesaid of the entire satisfaction of the Engineer, the DFCCIL shall be entitled after giving 48 hours' notice (Proforma at Annexure-X or XII, as the case may be) in writing under the hand of the Engineer to rescind the contract as a whole or in

part or parts (as may be specified in such notice) and after expiry of 48 hours' notice, a final termination notice (Proforma at Annexure-XI or XIII, as the case may be) should be issued.

Note: Engineer at his discretion may resort to the part termination of contract with notices (Proforma at Annexure- IX, XII and XIII), only in cases where progress of work is more than or equal to 80% of the original scope of work.

62.(2) Right of DFCCIL after Rescission of Contract owing to Default of Contractor: In the event of any or several of the courses, referred to in Sub-Clause (1) of this Clause, being adopted:

- (a) The Contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any commitments or made any advances on account of or with a view to the execution of the works or the performance of the contract and Contractor shall not be entitled to recover or be paid any sum for any work thereto for actually performed under the contract unless and until the Engineer shall have certified the performance of such work and the value payable in respect thereof and the Contractor shall only be entitled to be paid the value so certified.
- (b) In the contract which has been rescinded as a whole, the Security Deposit already with DFCCIL under the contract shall be encashed/ forfeited and the Performance Guarantee already submitted for the contract shall be encashed. The balance work shall be got done independently without risk & cost of the failed Contractor. The failed Contractor shall be debarred from participating in the tender for executing the balance work. If the failed Contractor is a JV or a Partnership firm, then every member/partner of such a firm shall be debarred from participating in the tender for the balance work in his/her individual capacity or as a partner of any other JV /partnership firm. Further the authorized representative of failed Contractor cannot be accepted as authorized representative in new contract.
- (c) In the contract rescinded in part or parts,
 - (i) The full Performance Guarantee available for the contract shall be recovered. No additional Performance Guarantee shall be required for balance of work being executed through the part terminated contract. The contract value of part terminated contract stands reduced to the balance value of work under the contract.
 - (ii) The Security Deposit of part terminated contract shall be dealt as per clause 16(2) of these Conditions.
 - (iv) The defaulting Contractor shall not be issued any completion certificate for the contract.
 - (iv) The balance work shall be got done independently without risk & cost of the failed Contractor. The failed Contractor shall be debarred from participating in the tender for executing the balance work. If the failed Contractor is a JV or a Partnership firm, then every member/partner of such a firm shall be debarred from participating in the tender for the balance work in his/her individual capacity or as a partner of any other JV /partnership firm.
 - (v) Further the authorized representative of failed Contractor will not be accepted as authorized representative in new contract.
- (d) The Engineer or the Engineer's Representative shall be entitled to take possession of any materials, tools, implements, machinery and buildings on the works or on the property on which these are being or ought to have been

executed, and to retain and employ the same in the further execution of the works or any part thereof until the completion of the works without the Contractor being entitled to any compensation for the use and employment thereof or for wear and tear or destruction thereof.

- (e) The Engineer shall as soon as may be practicable after removal of the Contractor fix and determine ex-parte or by or after reference to the parties or after such investigation or enquiries as he may consider fit to make or institute and shall certify what amount (if any) had at the time of rescission of the contract been reasonably earned by or would reasonably accrue to the Contractor in respect of the work then actually done by him under the contract and what was the value of any unused, or partially used materials, any constructional plant and any temporary works upon the site. The legitimate amount due to the Contractor after making necessary deductions and certified by the Engineer should be released expeditiously.

SETTLEMENT OF DISPUTES –DFCCIL ARBITRATION AND CONCILIATION RULES

63. Conciliation of Disputes:

- (i) This clause is applicable in the tender having advertised value less than or equal to Rs 50 Crore.
- (ii) 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 Engineer" or "Divisional DFCCIL Manager" 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 Engineer or Divisional DFCCIL Manager shall, within 30 days after receipt of the Contractor's "Notice of Dispute", notify the name of conciliator(s) to the Contractor.
- (iii) The Conciliator(s) shall assist the parties to reach an amicable settlement in an independent and impartial manner within the terms of contract.
- (iv) 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.
- (v) 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.
- (vi) The conciliation proceedings shall be terminated as per Section 76 of 'The Arbitration and Conciliation Act, 1996.

63.1 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 GM and the GM 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 63.2.11of 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 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.

63.2 Dispute Adjudication Board (DAB): This clause is applicable in the tender having advertised value more than Rs 50 Crore.

63.2.1 Any dispute/s if not settled with the Engineer, shall be referred to DAB.

The DAB shall consist of a panel of three Retired DFCCIL Officers, retired not below senior administrative grade (SAG). The DAB shall be formed within 90 days of signing of Contract Agreement. For this purpose, a panel of DAB members shall be maintained in the General Manager's office. The complete panel, which shall not be less than five members, shall be sent by Chief Engineer to the Contractor to nominate one member of the DAB from the panel as Contractor's nominee within two weeks of receipt of the panel. On receipt of Contractor's nominee, the Chief Engineer shall nominate one member from the same panel as DFCCIL nominee for the DAB. Both above nominees shall jointly select presiding member of the DAB from the same panel.

63.2.2 The appointment of DAB shall be effectuated by way of a tri-partite agreement among the DFCCIL, Contractor and the respective DAB members. The terms of the remuneration of each member shall be as fixed by Ministry of DFCCIL from time to time. Each party shall be responsible for paying one-half of this remuneration.

63.2.3 If one or more of the members appointed refuses to act as DAB member, or is unable or unwilling to perform his functions as DAB member for any reason whatsoever or dies or in the opinion of the Chief Engineer fails to act without undue delay, the parties shall terminate the mandate of such DAB member and thereupon new DAB member shall be appointed in the same manner, as the outgoing DAB member had been appointed.

63.2.4 The appointment of any member may be terminated by mutual agreement of both Parties, but not by the DFCCIL or the Contractor acting alone. Unless

otherwise agreed by both the Parties, the appointment of the DAB (including each member) shall expire upon expiry of this Contract Agreement.

63.2.5 Before start of DAB proceedings, each DAB member shall give the following certificate to the DFCCIL and the Contractor:

“I have no any past or present relationship in relation to the subject matter in dispute, whether financial, business, professional or other kind. Further, I have no any past or present relationship with or interest in any of the parties whether financial, business, professional or other kind, which is likely to give rise to justifiable doubts as to my independence or impartiality.”

63.2.6 DAB proceedings shall be conducted as decided by the DAB. The DAB shall give its decision within 90 days of a Dispute referred to it by any of the Parties, duly recording the reasons before arriving at the decision. The DAB shall decide the issue within terms and conditions of the contract. This time limit shall be extendable subject to the Parties mutual agreement.

63.2.7 The DAB decision shall not be binding on both the Parties. In case any party is not satisfied by the decision of DAB, then the aggrieved party may approach Arbitral Tribunal for arbitration proceedings.

63.2.8 No dispute shall be referred to Arbitral Tribunal unless the same has been referred to DAB for adjudication. However, in case DAB is not formed due to any reason, the disputes can be directly referred to Arbitral Tribunal to adjudicate the dispute.

63.2.9 In the specific cases of any misconduct by any of the members of the DAB, the parties shall have the right to specifically bring it to the notice of the DAB such conduct, through a statement filed with necessary documents in proof of such misconduct and the DAB, after taking NOTICE of such conduct initiate the replacement of the member concerned, in the same manner the member to be replaced was appointed.

63.2.10 Once the decision is given by DAB, DAB cannot review the decision at its own or on the request of one party, unless both parties agree for review of decision by DAB.

63.2.11 In case DAB decision is not challenged by either party within 180 days of receipt of decision of DAB, the decision shall be considered as final and parties would be barred for referring the same to Arbitral Tribunal for adjudication.

63.2.12 The obligation of the DFCCIL and the Contactor shall not be altered by reasons of issue being or under reference to DAB.

63.2.13 The DAB shall conduct the proceedings at any convenient venue which shall be decided by DAB in consultations with parties.

63.2.14 It is a term of this contract that the Parties shall not approach any Court of Law for settlement of such disputes or differences unless an attempt has first been made by the parties to settle such disputes or differences through DAB and Arbitral Tribunal.

64.(1) : Demand for Arbitration:

64.(1)(i): In the event of any dispute or difference between the parties hereto as to the construction or operation of this contract, or the respective rights and liabilities of the parties on any matter in question, dispute or difference on any account or as to the withholding by the DFCCIL of any certificate to which the Contractor may claim to be entitled to, or if the DFCCIL fails to make a decision within 120 days, then and in any such case, but except in any of the “excepted matters” referred to in Clause 63.1 of these Conditions, the Contractor, after 120 days but within 180 days of his presenting his final claim on disputed matters shall demand in writing that the dispute or difference be referred to arbitration.

64.(1)(ii)(a): The demand for arbitration shall specify the matters which are in question, or subject of the dispute or difference as also the amount of claim item-wise. Only such dispute or difference, in respect of which the demand has been made, together with counter claims or set off, given by the DFCCIL, shall be referred to arbitration and other matters shall not be included in the reference.

64.(1)(ii)(b): The parties may waive off the applicability of Sub-Section 12(5) of Arbitration and Conciliation (Amendment) Act 2015, if they agree for such waiver in writing, after dispute having arisen between them, in the format given under Annexure XV of these conditions.

64.(1)(iii)(a): The Arbitration proceedings shall be assumed to have commenced from the day, a written and valid demand for arbitration is received by the DFCCIL.

64.(1)(iii)(b): The claimant shall submit his claims stating the facts supporting the claims alongwith all the relevant documents and the relief or remedy sought against each claim within a period of 30 days from the date of appointment of the Arbitral Tribunal.

64.(1)(iii)(c): The DFCCIL shall submit its defence statement and counter claim(s), if any, within a period of 60 days of receipt of copy of claims from Tribunal, unless otherwise extension has been granted by Tribunal.

64.(1)(iii)(d): Place of Arbitration: The place of arbitration would be within the geographical limits of the Division of the DFCCIL where the cause of action arose or the Headquarters of the concerned DFCCIL or any other place with the written consent of both the parties.

64.(1)(iv): No new claim shall be added during proceedings by either party. However, a party may amend or supplement the original claim or defense thereof during the course of arbitration proceedings subject to acceptance by Tribunal having due regard to the delay in making it.

64.(1)(v): If the Contractor(s) does/do not prefer his/their specific and final claims in

writing, within a period of 90 days of receiving the intimation from the DFCCIL that the final bill is ready for payment, he/they will be deemed to have waived his/their claim(s) and the DFCCIL shall be discharged and released of all liabilities under the contract in respect of these claims.

64.(2): Obligation During Pendency of Arbitration: Work under the contract shall, unless otherwise directed by the Engineer, continue during the arbitration proceedings, and no payment due or payable by the DFCCIL shall be withheld on account of such proceedings, provided, however, it shall be open for Arbitral Tribunal to consider and decide whether or not such work should continue during arbitration proceedings.

64.(3) : Appointment of Arbitrator:

64.(3)(a) : Appointment of Arbitrator where applicability of section 12 (5) of Arbitration and Conciliation Act has been waived off:

64.(3)(a)(i): In cases where the total value of all claims in question added together does not exceed ₹ 1,00,00,000/- (Rupees One Crore), the Arbitral Tribunal shall consist of a Sole Arbitrator who shall be a Gazetted Officer of DFCCIL not below Junior Administrative Grade, nominated by the General Manager. The sole arbitrator shall be appointed within 60 days from the day when a written and valid demand for arbitration is received by General Manager.

64.(3)(a)(ii): In cases not covered by the Clause 64(3)(a)(i), the Arbitral Tribunal shall consist of a panel of three Gazetted DFCCIL Officers not below Junior Administrative Grade or 2 DFCCIL Gazetted Officers not below Junior Administrative Grade and a retired DFCCIL Officer, retired not below the rank of Senior Administrative Grade Officer, as the arbitrators. For this purpose, the DFCCIL will send a panel of at least four (4) names of Gazetted DFCCIL Officers of one or more departments of the DFCCIL which may also include the name(s) of retired DFCCIL Officer(s) empaneled to work as DFCCIL Arbitrator to the Contractor within 60 days from the day when a written and valid demand for arbitration is received by the General Manager.

Contractor will be asked to suggest to General Manager at least 2 names out of the panel for appointment as Contractor's nominee within 30 days from the date of dispatch of the request by DFCCIL. The General Manager shall appoint at least one out of them as the Contractor's nominee and will, also simultaneously appoint the balance number of arbitrators either from the panel or from outside the panel, duly indicating the 'presiding arbitrator' from amongst the 3 arbitrators so appointed. General Manager shall complete this exercise of appointing the Arbitral Tribunal within 30 days from the receipt of the names of Contractor's nominees. While nominating the arbitrators, it will be necessary to ensure that one of them is from the Accounts Department. An officer of Selection Grade of the Accounts Department shall be considered of equal status to the officers in Senior Administrative Grade of other departments of the DFCCIL for the purpose of appointment of arbitrator.

64.3.(a).iii: The serving DFCCIL officer working in arbitral tribunal in the ongoing arbitration cases as per clause 64.(3)(a)(i) and clause 64.(3)(a)(ii) above, can continue as arbitrator in the tribunal even after his retirement.

64.(3)(b): Appointment of Arbitrator where applicability of Section 12 (5) of Arbitration and Conciliation Act has not been waived off:

(i) In cases where the total value of all claims in question added together does

not exceed ₹ 50,00,000/- (Rupees Fifty Lakh), the Arbitral Tribunal shall consist of a Retired DFCCIL Officer, retired not below the rank of Senior Administrative Grade Officer, as the arbitrator. For this purpose, the DFCCIL will send a panel of at least four (4) names of retired DFCCIL Officer(s) empanelled to work as DFCCIL Arbitrator duly indicating their retirement dates to the Contractor within 60 days from the day when a written and valid demand for arbitration is received by the General Manager.

Contractor will be asked to suggest to General Manager at least 2 names out of the panel for appointment as arbitrator within 30 days from the date of dispatch of the request by DFCCIL. The General Manager shall appoint at least one out of them as the arbitrator within 30 days from the receipt of the names of Contractor's nominees.

- (ii) In cases where the total value of all claims in question added together exceed ₹ 50,00,000/- (Rupees Fifty Lakh), the Arbitral Tribunal shall consist of a Panel of three (3) retired DFCCIL Officer, retired not below the rank of Senior Administrative Grade Officer, as the arbitrators. For this purpose, the DFCCIL will send a panel of at least four (4) names of retired DFCCIL Officer(s) empaneled to work as DFCCIL Arbitrator duly indicating their retirement date to the Contractor within 60 days from the day when a written and valid demand for arbitration is received by the General Manager.

Contractor will be asked to suggest to General Manager at least 2 names out of the panel for appointment as Contractor's nominee within 30 days from the date of dispatch of the request by DFCCIL. The General Manager shall appoint at least one out of them as the Contractor's nominee and will, also simultaneously appoint the balance number of arbitrators either from the panel or from outside the panel, duly indicating the 'Presiding Arbitrator' from amongst the 3 arbitrators so appointed. General Manager shall complete this exercise of appointing the Arbitral Tribunal within 30 days from the receipt of the names of Contractor's nominees. While nominating the arbitrators, it will be necessary to ensure that one of them has served in the Accounts Department.

64.(3)(c)(i): If one or more of the arbitrators appointed as above refuses to act as arbitrator, withdraws from his office as arbitrator, or vacates his/their office/offices or is/are unable or unwilling to perform his functions as arbitrator for any reason whatsoever or dies or in the opinion of the General Manager fails to act without undue delay, the General Manager shall appoint new arbitrator/arbitrators to act in his/their place in the same manner in which the earlier arbitrator/arbitrators had been appointed. Such re-constituted Tribunal may, at its discretion, proceed with the reference from the stage at which it was left by the previous arbitrator (s).

64.(3) (c) (ii): (a) The Arbitral Tribunal shall have power to call for such evidence by way of affidavits or otherwise as the Arbitral Tribunal shall think proper, and it shall be the duty of the parties hereto to do or cause to be done all such things as may be necessary to enable the Arbitral Tribunal to make the award without any delay. The proceedings shall normally be conducted on the basis of documents and written statements.

- (b) Before proceeding into the merits of any dispute, the Arbitral Tribunal shall first decide and pass its orders over any plea submitted/objections raised by any party, if any, regarding appointment of Arbitral Tribunal, validity of arbitration

agreement, jurisdiction and scope of the Tribunal to deal with the dispute (s) submitted to arbitration, applicability of time 'limitation' to any dispute, any violation of agreed procedure regarding conduct of the arbitral proceedings or plea for interim measures of protection and record its orders in day to day proceedings. A copy of the proceedings duly signed by all the members of tribunal should be provided to both the parties.

64.3(c)(iii): (i) Qualification of Arbitrator (s):

- (a) Serving Gazetted DFCCIL Officers of not below JA Grade level.
- (b) Retired DFCCIL Officers not below SA Grade level, one year after his date of retirement.
- (c) Age of arbitrator at the time of appointment shall be below 70 years.
- (ii) An arbitrator may be appointed notwithstanding the total number of arbitration cases in which he has been appointed in the past.
- (iii) While appointing arbitrator(s) under Sub-Clause 64.(3)(a)(i), 64.(3)(a)(ii), 64.(3)(b)(i) & 64.(3)(b)(ii) above, due care shall be taken that he/they is/are not the one/those who had an opportunity to deal with the matters to which the contract relates or who in the course of his/their duties as DFCCIL servant(s) expressed views on all or any of the matters under dispute or differences. A certification to this effect as per annexure- XVI shall be taken from Arbitrators also. The proceedings of the Arbitral tribunal or the award made by such Tribunal will, however, not be invalid merely for the reason that one or more arbitrator had, in the course of his service, opportunity to deal with the matters to which the contract relates or who in the course of his/their duties expressed views on all or any of the matters under dispute.

64.(3)(d)(i): The arbitral award shall state item wise, the sum and reasons upon which it is based. The analysis and reasons shall be detailed enough so that the award could be inferred therefrom.

64.(3)(d)(ii): A party may apply for corrections of any computational errors, any typographical or clerical errors or any other error of similar nature occurring in the award of a Tribunal and interpretation of a specific point of award to Tribunal within 60 days of receipt of the award.

64.(3)(d)(iii): A party may apply to Tribunal within 60 days of receipt of award to make an additional award as to claims presented in the arbitral proceedings but omitted from the arbitral award.

64.(4): In case of the Tribunal, comprising of three members, any ruling on award shall be made by a majority of members of Tribunal. In the absence of such a majority, the views of the Presiding Arbitrator shall prevail.

64.(5): Where the arbitral award is for the payment of money, no interest shall be payable on whole or any part of the money for any period till the date on which the award is made.

64. (6): The cost of arbitration shall be borne by the respective parties. The cost shall inter-alia include fee of the arbitrator(s), as per the rates fixed by DFCCIL Board from time to time and the fee shall be borne equally by both the parties, provided parties sign an agreement in the format given at Annexure XV to these conditions after/ while referring these disputes to Arbitration. Further, the fee payable to the arbitrator(s) would be governed by the instructions issued on the subject by DFCCIL Board from time to time irrespective of the fact whether the arbitrator(s) is/are appointed by the DFCCIL Administration or by the court of law unless

specifically directed by Hon'ble court otherwise on the matter.

64.(7) Subject to the provisions of the aforesaid Arbitration and Conciliation Act 1996 and the rules thereunder and relevant para of the Standard General Conditions of Contract and any statutory modifications thereof shall apply to the appointment of arbitrators and arbitration proceedings under this Clause.

64.(8) In case arbitration award is challenged by a party in the Court of Law, 75% of award amount, pending adjudication by Court of Law, shall be made by party to other party. In case payment is to be made by DFCCIL to Contractor, the terms & conditions as incorporated in the Ministry of railways letter No. 2016/CE(I)/CT/ARB/3(NITI Aayog)/Pt. dated 08th Mar,2017 as amended from time to time, shall be followed. In case Contractor has to pay to the DFCCIL, then 75% of the award amount shall be deducted by the DFCCIL from the Contractor's bills, Performance Guarantee/ Security Deposit or any other dues of Contractor with the Government of India.

PART V(a)

**SCOPE OF WORK & SPECIAL CONDITIONS OF
CONTRACT**

1.0 SCOPE OF WORK -

1.1 The scope of work includes “Maintenance of 2x25 kV High Rise Over Head Equipment on New Makarpura- New Bhestan section of DFCCIL including the New Udhana, New Gothangam, New Sanjali connectivity to Indian Railways for a period of 24 (Twenty-four) months under CGM Vadodara Unit.”.

1.2 The schedule is divided in 5 parts and details as mentioned in Schedule at page 217 to 227 of Tender documents..

1.3 Preventive/breakdown Maintenance of given under assets shall be done by contractor: -

- a) 2x25 kV A.C. Traction Overhead Equipment on main line, 25kV HIGH RISE OHE in loop lines and connecting chords etc. in sidings of New Makarpura- New Bhestan section. There are 04 nos. of station Yard (New Varediya, New Sanjali, New Gothangam & New Udhana) in the Section
- b) To maintain these, DFCCIL has established 01 no. IMSD (Integrated maintenance sub depot) is being established at New Gothangam
- c) The consumable material for the maintenance and replacement for the defective parts generally provided by the Employer which is not in Scope of Contractor. The material required for the maintenance shall be issued by authorized representative of CGM/BRC available at IMSD. **Rest all other required tools and plants for maintenance shall be arranged by contractor.**

Organization	Work/location	Quantum of assets to be maintained.
DFCCIL	New Makarpura- New Bhestan including the New Udhana, New Gothangam, New Sanjali connectivity's to Indian Railways	2x25 kV A.C. Traction Overhead Equipment (HIGH RISE OHE) of 125 sq. mm Copper-Magnesium Catenary and 150 sq. mm. grooved Copper-Sn Contact wire on Main & 65 sq mm cd-cu catenary & 107 sq.mm Electrolyte grooved cu conductor for Loop Lines (Total approx. 281 TKM)

Schedule of quantities requires Preventive/breakdown Maintenance of 2x25 kV A.C. Traction Overhead Equipment in the above section by the contractor's personnel round the clock for the configuration given at “**Schedule of Rates**”.

- 1.3.1 Special Checks & Preventive maintenance of the 2x25 kV A.C. Traction Overhead Equipment including negative feeders under Power Block activities but strictly under the supervision of competent representatives of DFCCIL and with their time-to-time instructions only, in accordance with the Standard Maintenance Instructions issued by the DFCCIL.
- 1.3.2 Immediate attention for any breakdown in the 2x25 kV A.C. Traction overhead Equipment & Power Supply Installation Equipment and quick restoration.

2.0 SPECIAL CONDITIONS APPLICABLE FOR THIS TENDER:

2.1 Organization Structure:

The Tenderer shall have adequate Manpower Organization required for the execution of the tendered work. The details are given below.

(a) Manpower deployed by the Contractor:

The Contractor should employ the following personnel for execution of the contract/ maintenance work, with the minimum qualification & experience as given in the para 2.2 below:

- (a) Supervisor In-charge
- (b) Asst. Supervisor
- (c) Technicians/Fitters (Highly Skilled)/ Skilled
- (d) Semi Skilled
- (e) Helpers (Un-Skilled)

(b) The contractor shall maintain minimum manpower at following stations at IMSD/ Service Building for regular maintenance work of OHE apart from Break- down Gangs as mentioned in Schedule-02:

Minimum requirement of Staff at ISMD/Stations					
	Varediya	Sanjali	GTXN	Udhana	Total
Supervisor/Overall In-charge	0	0	1	0	1
Assistant Supervisor	1	1	1	1	4
Highly Skilled / Skilled	2	2	0	2	6
Unskilled/ Helpers	4	4	1	4	13
Total	7	7	3	7	24

Note: In case the deployed Supervisor will take leave or out of his headquarters, contractor will deploy another employee/s having equivalent educational & experienced as "Supervisor" for the work. At no time the gang shall be permitted to work at site without contractor's supervisor.

(c) Required gang size:

The contractor should proportionately increase the size of the gang (i.e. Technicians and Helpers) during Break down/ power block/ night / special Engineering works to cater the requirements. To attend the emergency work, maintenance gang should reach site & attend emergency within one hour from intimation given to supervisor in charge and if additional manpower required to attend the emergency, then separate gang as per schedule 2 (Emergency activities) is required to be arranged by contractor within 12 hours after obtaining approval from DFCCIL's in charge. If contractor is not able to arrange gang within the stipulated time during Emergency/Break down/ power block/ night / special Engineering works to cater the requirements, a penalty as per 3.0 of special condition of contract shall be imposed.

(d) Suitable reliever:

Since OHE maintenance work will be on all days the contractor should arrange necessary relief to the personnel working as per the labour laws from time to time for which no additional payment will be made by the DFCCIL Railways. Each gang should work under the instruction of DFCCIL Engineer/DFCCIL. If performance of any contractor's staff is not found upto the mark, he should be replaced by suitable reliever within a week. If the staff is not replaced, should be treated as absent and penalty should be imposed as per special conditions of contract.

- (e)** The work shall be taken up in accordance to GCC & SCC services in which all provisions such as Safety of property & life's including all minimum wages act etc. Contractor is bound to follow all the conditions stipulated in GCC & SCC services.

2.2 Qualification of the contractor's Personnel for 2X25kV OHE & PSI Maintenance work:

- (a)** Since the contract is primarily manpower oriented, therefore qualification and competence of the manpower deployed by the contractor is a crucial factor. Therefore, Contractor is required to deploy Supervisors, Technicians and Helpers round the clock, for all maintenance and restoration of 2x25kV/25 kV OHE Breakdown works. The contractor shall ensure the required minimum educational qualifications & experience for his deployed Supervisors, Technicians and Helpers as tabulated below:

- (i) Supervisor-in-Charge/ Design Engineer/DFCCIL:** The supervisory staff posted by the contractor should at least be Engineering degree holder in Electrical/ Mechanical/ Electronics discipline & should have minimum 1 year experience in similar works OR Diploma in Electrical / Mechanical / Electronics Engineering & should have 3 years' experience in similar works OR should have worked at the supervisory level (SSE/JE of OHE/PSI/RC) in Railway Projects/Contracts for a minimum period of 3 years.
- (ii) Assistant Supervisor:** Assistant supervisory staff posted by the contractor should at least be Diploma in Electrical/Mechanical/Electronics Engineering & should have 1-year experience in similar works OR should have worked at the Assistant supervisory level (JE/Sr. Tech of OHE/PSI/RC) in Railway Projects/Contracts for a minimum period of 1 year.
- (iii) Technician/Fitter (Highly Skilled & Skilled):** Should have One of the below criteria
- certificate of ITI issued by any recognized institution and with minimum 3 years' experience in relevant field.
 - Worked as OHE technician in Railways Projects/ OHE Contractors for a minimum period of 2 years' experience in relevant field OR 5 years experience in relevant OHE/PSI field.
- (iv) Semi-Skilled** Should have passed Matriculation and have minimum 3 years' experience in relevant field.
- (v) Unskilled:** Should have minimum 10th passed + 2 years' experience in the relevant field.

Note: Photostat copies above educational qualification Certificates shall be self-attested by the concerned person. The certificate of experience shall be submitted duly countersigned by the successful tenderer.

(b) Training to the contractor's personnel:

Basic Training for the Contractor's personnel will be given initially free of cost by DFCCIL. The training for different level of staff will be different and shall be decided by Dy.CPM/EL. All the personnel desired to be deputed for this work including supervisors have to undergo a scrutinizing test conducted by Dy.CPM/EL or his representative for their Jurisdiction. Candidates found suitable will be given an Identity card and a "competency certificate" valid for a period of currency of contract before they are put on the job. They have to keep both Id Cards and "Competency Certificate" with them while on duty and for their movements in the DFCCIL/Railway premises. Contractor is required to deploy Supervisors, Technicians and Helpers round the clock for all OHE maintenance activities in consultation with DFCCIL and shall ensure the required minimum educational qualifications & experience for his deployed Supervisors, Technicians and Helpers.

2.3 Competency Certificate for 2X25kV Isolators (SP/DP) with or without Earthing

Heel: The contractor's personnel who are found to be qualified and suitable in the scrutiny by authorized representative of Dy.CPM/EL/BRC shall only be allowed to work.

All the Supervisory Staff & Technicians of the contractors shall attend to the nominated officer of Dy.CPM/EL/BRC of respective division to take the counseling & training to operate 25/2x25 kV Isolators (SP/DP) with or without Earthing Heel. The competent staff shall be given a "Competency Certificate for 25/2x25kV Isolators" by the above nominated officer and it shall be carried by such staff while on duty on the section/location.

2.4 Medical fitness certificates:

All the personnel whether undergone training as per Para 2.1(b) above OR having experienced as per Para 2.1(a) above shall undergo a scrutinizing test conducted by authorized representative of CGM /BRC of the respective section. Candidates found suitable shall be issued with competency certificate by respective authorized representative of CGM /BRC.

All such selected staff of contractor shall medically fit for Railway's working circumstances round the clock, for all maintenance and restoration of Breakdown. The contractor's personnel shall be healthy, physically fit, eye sight normal with spectacles, BP/Diabetes etc., disabling / debilitating diseases controllable by drugs, no contagious/ infectious diseases, generally good physique. The contractor's personnel should be habitual to work on the height and no fear (Acrophobia) to working on height.

Therefore, contractor's personnel proposed to deploy will have to pass **requisite medical** fitness test "**Category-A 3 for Supervisor/Asst. Supervisor/ Technician and Category-B 1 for Helper**" of Indian Railway Medical manual conducted by the Railway Administration to ensure that the personnel medical fit to carry out the duties. The contractor shall get the operators to be deployed by him for the above medical checkup at his own cost.

2.5 Police verification:

The contractor shall ensure police verification for all the staff deployed by him against subject work and to certify to the DFCCIL administration that the “**staff is free from criminal record**”.

2.6 Commencement of O.H.E Maintenance Contract at field:

The contractor shall commence HIGH RISE OHE maintenance work at field within 15 days from obtain a letter from competent authority of DFCCIL duly stating actual date of commencement of subject HIGH RISE OHE and PSI equipment maintenance work and accordingly the completion period of contract (Twenty-Four months) will be reckoned.

2.7 Subletting of Contract: The contractor shall not assign/sublet the contract in the interest therein or the part thereof to any other party or partner(s) without the consent of the DFCCIL.

2.8 Photo Identity Cards, Uniform & PPE equipment to the Contractor Staff Deployed:

The deployed staff should be taken on duty after approval of DFCCIL and necessary photo identity cards of the staff deployed shall be issued by the contractor duly attested by the DFCCIL. The Contractor shall submit a list of suitable persons to be deployed for subject HIGH RISE OHE Maintenance work.

The personnel who are found to be qualified and suitable in the scrutiny by representative of CGM /BRC of the respective division shall only be allowed to work. However, the contractor shall be solely responsible for the conduct of the personnel deputed by him for the work.

The contractor shall arrange Identity cards valid only for a period of currency of contract for the suitable persons whom they have to keep with them while on duty and for their movements in the DFCCIL works pots.

The age of the contractor’s personnel deputed for duty should be more than 18 years and less than 65 years as on date of commencement of work.

UNIFORM: Orange colour dungaree / allover with Retro reflective bond of min 2” width to be provided. Contractor will ensure minimum 3 uniforms for staff so that the staff are always in their protective uniform at work. The uniform shall bear Logo & Name of the Contracting Agency colour of the Uniform will be decided in consultation with DFCCIL.

The contractor’s staff shall not carry or display or exhibit any kind of advertisement on his person at DFCCIL/Railway premises.

The contractor’s personnel should have knowledge of Local language Hindi / English for speaking/writing.

The contractor’s personnel should not carry any unauthorized/dangerous/explosives in the complex and should not consume alcohol/intoxicating drugs etc. during duty hours.

The Contractor shall provide the PPE kit & safety item i.e., Safety belts, Helmets, First Aid Box, Safety Jackets (retro reflective) to his staff at his own cost.

These staff should reside close to the contractor’s Depot for easy approach during

emergencies. Residential addresses and phone numbers of specified staff should be made available with Traction Power Control and relevant HIGH-RISE OHE depot. The DFCCIL reserves the right to ask the contractor to remove any contractor's personnel from duty without assigning any reason whatsoever. The decision of DFCCIL's Engineer/DFCCIL- in-charge will be final and binding on the contractor. Any changes in the list shall be done with prior approval of DFCCIL authority.

2.9 Safety during O.H.E. Maintenance work at field:

The contractor shall ensure the safety of all the staff provided for maintenance of 2x25kV HIGH RISE OHE& PSI equipment maintenance. In case of any injury or accident the contractor is liable for their compensation; DFCCIL will not take any responsibility to the contractor's provided labour.

- (a) The contractor should maintain safety belts to his staff those authorized to work on the HIGH RISE OHE, shockproof safety shoes, raincoats and helmets etc. to all his site staff and two red banner flags, two sets of hand flags should be maintained with each gang at his own cost.
- (b) Communication facilities (cell phones) shall have for all the technicians and supervisors by 24x7 hrs.
- (c) While working in normal maintenance, if any breakdown occurs in the section, the maintenance staff should be diverted to breakdown site immediately as per the direction of DFCCIL's representative.
- (d) If any unusual occurrence/Breakdown taken place the contractor's staff should reach the Depot within 30 minutes in day time and 45 minutes at night time after receipt of the information from DFCCIL representative and to report the DFCCIL representative. The time of receipt of information should be recorded before DFCCIL representative and the call book memo should be jointly signed by the gang supervisor and DFCCIL representative before leaving to the breakdown site. In all such cases contractor should ensure full strength staff before leaving for the breakdown site.
- (e) Contractor shall provide for transportation of his staff by road/train for foot patrolling /AT fuse replacement/foreign body removal/any other activities specified by DFCCIL's representative.
- (f) Contractor shall be in position for arranging immediately attention of the defects noticed during various inspections for normal / emergency power block.
- (g) The arrangement for the stay of the contractor's staff shall be made by the contractor at his own cost.
- (h) Safety precautions to be followed as per safety plan/ maintenance manual.
- (i) The contractor shall have to take all precautions to prevent possible electrical accidents due to proximity of adjacent live HIGH RISE OHE always in live condition, unless otherwise a power block is granted on the adjacent line. The contractor shall also take all precautions to protect his staff working on the line against traffic (running of trains) on the working lines/adjacent lines.

2.10 Progress Monitoring of Maintenance Schedule:

Progress of One TKM of maintenance shall cover all the equipment uniformly. Completion of total TKM of a particular depot/section should ensure completion

of maintenance of all the pertaining equipment.

2.11 Tools and plants management:

- (a) Tools & plants etc. per Depot/Gang as per requirement should be owned and maintained by the contractor. Before ordering the T&P equipment, the successful tenderer shall seek approval from concerned Dy.CPM/Elect/BRC regarding the latest list of approved suppliers for the equipment's. The ladder trolley provided by DFCCIL shall be kept in good condition by the contractor.
- (b) Any additional tools and plants as required other than the tools for maintenance of the HIGH RISE OHE/PSI shall be arranged by the contractor at his own cost for each Gangs.
- (c) Periodical load testing of tools, tackles, plants shall be carried out to ensure healthiness and safety of equipment duly maintaining testing record equipment wise. Meters like dynamometer, etc., shall be calibrated & maintained for periodical testing of tools & plants. Contractor has to ensure to take over the load bearing T&P items after jointly testing the equipment with DFCCIL Supervisor. There after these will be maintained in good working condition by the contractor during entire contract period.
- (d) Each Gang shall maintain and carry tool boxes having full set of required tools. These tool boxes shall be arranged by the contractor.

Note: Contractor must have all necessary T&P Items like Tirfor, Pull-lift, steel sling pulleys, ladder, manila rope, lights, safety belts, helmets, discharge rod, operating rod etc. and measuring instrument like Meggar, Earth tester, Binocular etc. and consumable items like Oil Kerosene, Toilet soap, cotton waste, Tape insulation black, Hacksaw Blade, Cell for hand torch, Paint Brush, Emery cloth paper, Duster cloth white khadi, petroleum jelly, soap bar etc. order to execute maintenance / Breakdown work at PSI. If the work is delayed due to Non-availability of above items necessary Penalty as per the Para-3.0 as given below in this part of this tender document will be imposed.

2.12 The RECONCILIATION OF MATERIALS SUPPLIED BY THE DFCCIL:

All the material supplied by the DFCCIL and also released from the existing OHE/PSI maintenance shall be correctly accounted for and quantities reconciled on completion of the work by the contractor.

On completion of work, all surplus materials supplied by the DFCCIL together with the ones found defective or that have become defective or broken on account of manufacture defect, will be handed over to concerned OHE/PSI depot.

2.13 Stores Management in Depot at Site

- (a) The material required for the maintenance shall be issued by authorized representative of CGM/BRC available at IMD/IMSD. The material shall be issued to the contractor on demand as per the requirement of the maintenance in the section further the essential material issued to the contractor to attend 24x7 breakdowns shall

lie with the contractor. The material shall only be issued to authorized person of the contractor.

- (b) Maintenance of record for daily material transaction and entries in ledgers for the same should be carried out by the supervisor in-charge. Shortfall of consumed stores shall be recouped periodically so as to ensure that the minimum quantity is always available. During periodic inspections by DFCCIL officers, scrutiny of this inventory should be one of the important items in order that the required stores are always made available.
- (c) HIGH RISE OHE material/parts (spares) likely to be used during restoration of breakdown shall be systematically stocked in small bags as per the correct identification and for carrying to work spot.
- (d) Consumption of emergency HIGH RISE OHE material/parts (spares) used during maintenance / breakdowns shall be recorded location wise in the format of work progress and should be jointly signed by contractor and DFCCIL representative for proper accountable of inventory.
- (e) DFCCIL will recoup, the consumed material/parts (spares) duly placing issue challan/voucher to the contract supervisor who shall be responsible to ensure the minimum quantity emergency spares is always available.
- (f) All released materials shall be properly accounted location wise and returned to DFCCIL by return challan at the nominated purchaser's depot.
- (g) List of spares to be maintained by the contractor at his depot is to be jointly finalized by the DFCCIL & contractor at the time of agreement. The contractor at his own cost maintain a depot for stacking of issued material in respective IMD/IMSD.
- (h) Transportation of the purchaser supply materials from the nominated stores of the purchaser to the working site and vice-versa will be the responsibility of the contractor, whether specifically mentioned or not. DFCCIL will not give any transportation expense for transportation of these materials to the working site.

The receipt of storage of materials at the main and sub-depots shall be so planned as to avoid transport of materials between the main and sub-depot/s and vice versa to the maximum extent possible.

2.14 Guarantee Bond for Indemnification of DFCCIL Materials:

- (a) The materials supplied as per requirement under "Scope of the work and Special conditions" shall be covered by the **Guarantee Bond for Indemnification of DFCCIL Materials of amounting to Rs. 5 Lakhs** on stamp paper of requisite value of the material supplied by DFCCIL to be submitted by the contractor before lifting the material from DFCCIL depots.
- (b) **Reconciliation of Materials supplied by the DFCCIL:** All the material supplied by the purchaser and also released from the existing 2x25kV HIGH RISE OHE installations & Power Supply Installation shall be correctly accounted for and quantities reconciled on completion of the work by the contractor.
- (c) On completion of work, all surplus materials supplied by the purchaser together with the ones found defective or that have become defective or broken on account of defective materials, the surplus DFCCIL supplied material to be handed over to concerned depot. For the purpose of measurement of 2x25kV HIGH RISE OHE&

PSI equipment, the length of the conductor will be taken from termination to termination and erection tolerance of 0.5% will be allowed.

- (d) **Release of the Guarantee Bond for Indemnification:** After according approval to the “Materials Reconciliation Statement “Guarantee Bond for Indemnification will be released with approval of DFCCIL.

2.15 Contractor Vehicles:

The vehicles used by contractor must be fully & comprehensively insured covering the risk to the Driver & all passengers also

All kinds of repairs/maintenance costs, charges of fuels, oil, lubricant, mobile phone charges, fee towards licenses /registration taxes, challans, salary/overtime of the driver, insurance premium etc. are responsibility of the contractor and shall be borne by the contractor all along the contract duration,

2.16 Tower Wagon:

For carrying out maintenance and other works on Section Insulators, cross-over/Turn-outs, Overlaps, attending spark locations, staggers, etc. **Tower Wagon will be arranged by DFCCIL** to the extent of requirement. The cleaning of Tower Wagen is to be ensured by the Contractor’s staff.

2.17 Power blocks and Permits-to-work:

Obtaining “Power Block, Permit-To-Work” and “Restoration of Supply” after a Permit-To-Work is returned shall be carried out by the '**Authorized DFCCIL Section representative**' only with its latest correction slips if any. Contractor Supervisor shall not permit to do the above duties.

- i. Availability of power block is dependent on traffic conditions and other operational exigencies. Hence, contractor should be prepared to mobilize staff for maintenance any time during day / night time upon one hour advance intimation from DFCCIL to ensure there is no shortfall in availability & utilization of power block.
- ii. Power blocks are premium hours permitted by regulating trains. Hence, optimum utilization requires full deployment of manpower and multiple gangs.
- iii. If work is to be carried out by contractor representative on or adjacent to any part of the electrical equipment such work shall not commence until the person in-charge of the work is in possession of a written permit-to-work in the prescribed form issued to him by an 'Authorized DFCCIL Person'.
- iv. Such permits-to-work in the prescribed form shall only be issued by an 'Authorized DFCCIL Person' of the Electric Traction Branch not below the rank of an executive.
- v. The permit-to-work shall first be taken from TPC/OCC Ahmedabad by an 'Authorized DFCCIL Person who shall ensure earthing the electrical equipment specified and hand over a permit-to-work card to the person in-charge of the work getting an acknowledgment on the other copy. A duplicate copy of every permit-to-work card shall be retained in the personal possession of the 'Authorized DFCCIL Person' who issued it.
- vi. On completion of the work and when all men and materials have been withdrawn

from the electric equipment and its vicinity, the person in-charge of the working party shall cancel his permit-to-work card and return it to the 'Authorized DFCCIL Person' who issued it. The 'Authorized DFCCIL Person' shall in turn issue a message to TPC/OCC Ahmedabad to cancel permit-to-work.

2.18 Knowledge of Rules and Sectioning:

1. It is very important for every contractor Supervisor who has occasion to ask for power block to know the correct method of identifying and describing any section of the HIGH RISE OHE where shutdown is required. He should have with him the up to-date Station Working Rule Diagram for the section, showing all relevant particulars such as station names, position of all isolators, interrupters, circuit breakers, "up" and "down" tracks, cross- over section insulators, sectors, sub-sectors and elementary section numbers.
2. All contract staff shall be fully conversant with the "Rules & Safety Procedures" while working on TRD installations as laid down in maintenance manuals.
3. Competency certificates for working in 2x25kV electrified areas will be issued by DFCCIL as per the scope of work.
4. Safety precautions to be followed as per safety/maintenance manual.

2.19 Maintenance of schedules registers, records and forms:

- 1 Daily Report of OHE Maintenance to be submitted by the Supervisor in-charge of field work to JE. This should be in line with proforma appended. Register for Foot-Patrol Reports: The reports regarding foot-patrolling should be entered by the Technician in a Register to be maintained for the purpose by each Section Supervisor. The Register shall be generally as shown in proforma in line with proforma appended (refer part V (c)).
- 2 Cantilever Assembly Maintenance Register as per proforma appended. This should be maintained by each depot/sub-depot.
- 3 Register of Contact Wire Thickness Measurements: This Register shall be maintained in proforma appended.
- 4 Register of Clearance under over line Structures as per proforma appended.
- 5 Register of Earth Resistance Measurement as per proforma appended.
- 6 Register of Current Collection Tests shall be maintained in proforma appended.
- 7 Register of Regulating Equipment shall be maintained by each depot/sub-depot for its jurisdiction. This Register should have a page allotted for each Regulating Equipment. Particulars of adjustments carried out, amount of catenary and contact wire cut etc. shall be recorded in this Register, indicating the dates on which these items of work have been done, as per Proforma appended.
- 8 Register for Isolator Switches shall be maintained by each depot/sub-depot indicating dates on which the isolators have been Inspected and the details of work carried out, as per Proforma appended.
- 9 Register for Turn outs and Cross-overs shall be maintained by each depot/sub-depot. This should indicate the dates on which each turn out/cross-over has been checked for adjustment and particulars of work done, as per

- Proforma appended.
- 10 Register of Vulnerable Foundations: This should contain details of checks carried out on foundations at vulnerable locations, such as on over bridges, embankments susceptible to erosion etc., as per Proforma appended.
 - 11 Register for Feeder Lines shall be maintained by concerned depots/sub-depots to indicate particulars of patrolling of 25 kV feeder lines and maintenance carried out on such feeder lines.
 - 12 Register of Critical Implantation: The annual check of Implantation at critical locations (para-20306) shall be recorded in this Register as per Proforma appended.
 - 13 Register of Level Crossings: This should contain dates on which height of contact wire at Level Crossings as well as that of the height gauges at Level Crossings have been checked. See Proforma appended.
 - 14 Register of Splices as referred to in para 20310 as per Proforma appended.
 - 15 Register of OHE Break-downs: Each depot/sub-depot should maintain particulars of OHE break-downs occurring in its jurisdiction in Proforma appended. For each break-down a page should be allotted. Reference to detailed reports submitted should also be given to facilitate investigations subsequently.
 - 16 Register for Thermal Imaging of Electrical Junctions.
 - 17 Register for PTFE Neutral section
 - 18 Register for section insulator assembly
 - 19 Register for power line crossings
 - 20 Register for pantograph joint inspection
 - 21 Register for maintenance of assets
 - 22 Register for Tools and Plants checking
 - 23 Register for Live line tower wagon checking
 - 24 Register for maintenance of 25 kV feeder
 - 25 Register for maintenance of AEC & BEC.
 - 26 Registers may also be maintained for any other additional items in the proforma prescribed by DFCCIL officer Incharge.
 - 27 The Supervisor of the depot/sub-depot will be held responsible for ensuring that these registers are maintained up-to-date. Officers and Senior Supervisors during their inspections should scrutinize these registers and initial a few important entries.

2.20 BREAKDOWN GANGS:

- (a) Accidents and breakdowns involving traction installations and electric rolling-stock should normally be attended to by the nominated contract gangs themselves. It is, however, essential that the contractor shall maintain adequate number of experienced staff comprising Technician, Helpers and Supervisors, housed close to IMD/IMSD. In electrified suburban sections, however, 'breakdown gangs' of adequate strength may be located at selected points to deal promptly with HIGH RISE OHE failures, particularly during the hours of peak traffic.
The breakdown gang comprising supervisory staff, technicians, helpers, etc., shall be fully aware of different skills required to tackle HIGH RISE OHE breakdowns of various nature.
- (b) **Summoning of Emergency Staff:** To enable the TPC to summon breakdown

staff as required, a register showing the residential addresses with phone numbers of specified staff of the contract gang those residing close to depots/railway stations, shall be maintained depot-wise/station-wise by TPC.

- (c) **Importance of Expeditious Repairs:** Every breakdown of HIGH RISE OHE, even if minor in nature, should be attended to urgently as it generally interferes with traffic. Since electrified lines carry a high density of traffic, the effect on traffic will be quite severe if restoration is not arranged expeditiously.
- (d) **Detailed Assessment by The First Supervisor Reaching Site:** The first Supervisor / staff reaching the site of the breakdown should make a quick assessment of the extent of damage and the time required for restoration. He will ascertain from TPC the details of break-down gangs and equipment directed to the site and if the circumstances warrant, ask for additional gangs and breakdown equipment to be sent to the site. On receipt of these details, TPC should arrange for additional gangs and equipment to be sent to the site expeditiously. In the meanwhile, isolation and repair works should be started at site.

2.21 Power Block Working – Protection of Men Working:

- (i) DFCCIL will arrange only power block for the works related to power block depending on the traffic and other conditions. The contractor shall ensure the removal of men and material before cancellation of power block. The contractor shall have to take full advantage of available power block by employing adequate staff for getting the maximum possible work done during the available block period. For adhering to target date of completion, the contractor may have to work during night time under power block for which the contractor is not entitled for any additional payments.
- (ii) The contractor shall take all precautions necessary to protect staff working under him. The contractor shall treat all other lines live except the line under Power block. He should ensure execution of work under the supervision of a competent person to carry out the work in electrified areas. Unless the adjacent lines are also under power block, voltage and currents will be induced in the line under power block. To protect against these induced voltages and currents, earth discharge rods are to be provided. Care should be taken by the contractor that these discharge rods are intact and not disturbed by his staff. He shall also ensure that none of the staff working under him shall work/reach beyond safe working limits
- (iii) Under all conditions the contractor shall have to arrange protection of his staff against traffic. He shall have to also take all necessary precautions to guard against any possible obstructions to traffic during working by providing necessary staff while erection/dismantling of structures, coverage of excavated foundation pits with sand filled bags to keep free of stacked materials from obstructions to traffic etc.,
- (iv) At the end of each power block work the contractor shall ensure removal of all men and material and no work inclusive of HIGH RISE OHE should be left out in a state of obstruction to running of trains and the HIGH RISE OHE should be

made fit for electric traffic, failing which DFCCIL will remove such obstructions and the Contractor will be liable to pay cost of such removal.

- (v) If the contractor fails to execute and to work within the time of power block granted, DFCCIL shall be at liberty to take action and recover penalty for availing additional power block in accordance with standard practice of the DFCCIL. The contractor shall in consultation with the - DFCCIL submit a weekly power block programmed for work, 7 days in advance of the commencement of work.

3.0 PENALTIES:

A) Recovery due to shortfall in staff per Supervisor, Skilled / Un-skilled staff:

Breakdown staff should be available 24 hours X 7 days of the week. The contractor should ensure the availability of full-strength gang every day at other locations. The deployed staff should give their attendance to the depot in-charge before leaving to work site. No staff should leave the work site without intimating the DFCCIL's representatives. Failing to do so will be treated as absent.

In case of absentee of staff to the provided gang, the contractor should ensure the suitable replacement to make the full-strength gang. If the contractor fails to provide the suitable replacement a penalty of **1000/- per day of Supervisor and 500/- per day Skilled / Un- skilled staff** to deducted from contractor's monthly bill.

B) Recovery Due to Poor Maintenance / Fail to Utilize Power Block / Poor Progress for every Hour of Power Block Utilized /Bursting of Power Block:

If breakdown occurs due to poor maintenance, fail to utilize power block, poor progress for every hour of power block utilized, bursting of power block and proved in joint findings a penalty of **Rs.20,000/- on flat rate basis per occasion. For power block burst less than or more than hour, penalty shall be imposed on pro-rata basis @ Rs. 20,000/- for an Hour, if the block is burst on account of Contractor.**

If there is deficiency in checking the items as per standard proforma enclosed with tender book OR not carried out the up to the satisfaction of maintenance manual/DFCCIL work. Delay in the scheduled maintenance of equipments for more than a month will also call for a penalty of Rs. 500 per day after grace period of one month.

In addition of above not attending the break down maintenance of the equipments with in twelve hours from information given by TPC/APM/Incharge to the contractor, a penalty of Rs. 20,000/- per break down will be levied.

C) Recovery due to wrong operation of equipment:

On duty contractor personnel shall follow the instructions of DFCCIL Supervisor on duty for the maintenance of 2x25kV HIGH RISE OHE equipments. If the contractor personnel perform any wrong operation of equipment, a penalty of **Rs.5,000/- per occasion, if there is no operational delay and no financial repercussion.** However, if there is any financial repercussion, in that case, penalty will in consonance with the loss as approved by tender accepting authority. Also, if the train services are affected particular operator may be debarred from duties against subject agreement in addition to levy of penalty.

The cost of the damages/loss, if any, caused due to the negligence/fault of the contractor's personnel, to the DFCCIL property shall be recovered from the contractor.

The recovery shall be made inclusive of all contingencies by the DFCCIL.

D) Recovery due to contractor's personnel is found without Identity card:

If the contractor's personnel is found without Identity card, found in untidy condition, having improper conduct, found not obeying the instructions of Engineer/DFCCIL In-Charge of DFCCIL, a penalty of **Rs. 100/-** shall be levied and recovered from Contractor's bill for each such instance. If such deficiencies are found to be more than 5 in a month, it may be a ground for termination of the contract. Also, the contractor's personnel shall be dealt according to the DFCCIL rules in force from time to time.

E) Recovery Due To Non-Returning of T&P supplied by DFCCIL:

If any T&P items are supplied to the contractor for the maintenance of HIGH RISE OHE& PSI installations "over and above" to the quantities provided under "Scope of the work and Special conditions" & if supplied by DFCCIL in Break downs, the contractor should liable for safe return of the same. If the contractor fails to return such materials, the cost of such materials will be recovered at twice the book rate or twice the market rate enhanced by 5000/- per incident for integrity breach.

F) Recovery Due To fails to return unutilized DFCCIL supply materials:

The material issued to the deployed staff for maintenance/replacement of existing HIGH RISE OHE on day-to-day basis before leaving to the work site as per programmed assigned by the depot in-charge, the unused materials and released materials should be handed over to the depot in-charge at depot premises after completion of day's work. **If the contractor fails to return such materials, the cost of such materials will be recovered at twice the book rate or twice the market rate enhanced plus Rs 5000/-.**

G) Recovery Due To state of Intoxication

While working, contractor's personnel should not smoke or consume any alcohol / liquor or be in a state of intoxication. In case if it is noticed any time that they are either smoking or under influence of intoxication, penalty of **Rs. 10,000/- per occasion per incident** shall be imposed to the contractor and the particular contractor's person shall not be allowed to duties further period of subject contract.

H) penalty for the breaches in vehicle services will be as follows:

Sr. No.	Type of Breach	Amount (Rs.) of Penalty
1	Vehicle provided by the Contractor is not a Commercial Car Vehicle on any particular occasion (Except for the situation where the Commercial Vehicle was provided for duty but the same had to be replaced, for the particular day, by the Contractor due to accident or any other emergency situation).	Rs. 5,000/- per Vehicle per occasion.
2	Driver under the influence of Intoxicant.	Rs. 500/- per occasion.
3	In case of reporting of vehicle late by 30 minutes. (On regular day)	Rs. 500/- per Vehicle per occasion.
8	In case of emergencies, if the Driver does not report for the duty within 30 minutes even	Rs. 1000/- per Occasion

during his off hours, on call.

Note:- If the vehicle does not report at the requisitioned time or is not found in good condition, the vehicle may be rejected and sent back. Besides, receiving no payment for such rejected vehicles(s), the contractor/agency will become liable for action under terms and conditions of the contract. DFCCIL will be entitled to hire any vehicle on that day for use and amount thus incurred shall be recovered from the bills of the contractor.

The penalties as mentioned above may be imposed simultaneously.

4.0 PAYMENT AND RECOVERIES:

Payment shall be made on monthly basis for successful execution of work against the schedule items detailed in ("**Schedule of work and Quantities**") at the accepted rate. Payment will be permitted after submission of bill, certification of work by site in-charge, filling of Measurement Book, Attendance register issued by DFCCIL and acceptable to the DFCCIL/BRC.

'On Account' payment of running bills in the form of monthly invoices will be done on pro-rata basis, in accordance with accepted schedule of prices & as per details given below;

S.N	Schedule Item Description	Payment Procedure
1	Schedule 1 - Regular Maintenance Activity	On pro-rata basis on completion of work execution as per Schedule 1
2	Schedule 2 - OHE Breakdown Maintenance Activities	On pro-rata basis on completion of work execution as per Schedule 2
3	Schedule 3- Emergency, other maintenance activities & hiring of vehicle)	On pro-rata basis on completion of work execution as per Schedule 3.
4	Schedule 4 – Foundation Items	On pro-rata basis on completion of work execution as per Schedule 4
5	Schedule 5 –Additional OHE works	On pro-rata basis on completion of work execution as per Schedule 5

DFCCIL reserves the right to carry out 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 if as a result of such examination any over payment to him is discovered to have been made in respect of any work done or alleged to have been done by him under the contract.

4.1 Invoicing procedure: -

- i. The contractor shall submit his invoicing procedure for approval by the Engineer/DFCCIL within 15 Days from the date of receipt of Letter of Acceptance of Tender (LOA). Separate invoices shall be submitted for different types of payment mentioned above. All invoices shall be submitted with original supporting documents or certified true copies of supporting document wherever these are acceptable to Engineer/DFCCIL. Where copies of original documents are required in support of several invoices, true certified copies of the original documents may be forwarded to Engineer/DFCCIL, with his consent.
- ii. Invoices shall be submitted only on the basis of agreed principles and prices, quantities and measurements of works completed shall be approved by the Engineer/DFCCIL prior to the submission of invoices. For this purpose, the schedule of quantities and measurements submitted by the contractor for approval of the Engineer/DFCCIL may be only up to the extent of work completed except in the case of payments on provisional acceptance.

NOTE: - All the invoices should be accompanied by the following documents;

1. Supplier's/Contractor's challans.
2. Inspection Certificate granted by the Engineer/DFCCIL.
3. Certificate of receipt/release of materials at DFCCIL's Depot duly accepted by Engineer/DFCCIL.
4. Guarantee Bond for material.

5.0 OTHER REQUIREMENTS FOR THIS CONTRACT: -

1. In case of any statutory increase in the wages of labor for (Schedule-2) in accordance with the Minimum wage's notification issued by the appropriate authority as mentioned below, under the Minimum Wages Act from time to time after submission of the tender, payment of minimum wages by the contractor to the personnel deployed should be revised accordingly.

As on date the prevailing notification of Government of India, Ministry of Labour & Employment, Office of the Chief labour Commissioner (C) New Delhi for minimum wages (for various category of workers) is effective from 01.04.2023 and this will be treated as the reference rate. DFCCIL shall pay to the Contractor revised accepted rates of tender, calculated after incorporating statutory increase in the reference rate described above, with Contractor's quote.

An example illustrating the scenario above, is described below: -

- Suppose the initial wages of labor (reference rate) for a particular category: - Rs.100.
- Suppose Contractor's quote in the tender, for the item of Labor: - 5% above
- Suppose New Wages of labor for the category defined above, after incorporating statutory increase: - Rs.120
- Revised Price to be paid by DFCCIL to Contractor, after revision of statutory increase of labor wages: - Rs 120 X 5 % above = Rs 126.

2. The Contractor shall adhere to and comply with all the laws that may be applicable to them and will extend all the benefits/privileges as applicable to person engaged/employed by them including that of PF, ESI, Workmen's compensation Act, Bonus, Gratuity, minimum wages Act and leave, etc. In case of any breach of any law, rules, notifications applicable to the employees of the Contractor, the Contractor alone shall be responsible and liable for any act(s) of omission and/or commission committed by any employee, agent for discharging the obligations under this Contract. The Contractor shall deposit all the mandatory contributions/dues with the appropriate authorities and shall provide the documentary evidence to DFCCIL regarding such compliance if necessary and required as per extent laws.
3. The attendance roll for the personnel deployed by the Contractor for breakdown at the premises of DFCCIL shall be provided by the Contractor. The attendance roll shall be signed by the representative of the Contractor daily who shall get it verified by the designated officer of DFCCIL.
4. The engagement of outsourced staff shall be purely on temporary and Contract basis. The Contractor shall at all times make it absolutely clear to the staff hired through them in DFCCIL that such deputed do not have any claim whatsoever for any regular employment in DFCCIL. Any staff can be removed any time by giving notice to the Contractor. The Contractor will have to provide suitable replacement acceptable to DFCCIL.
5. The services of the outsourced person engaged are liable to be transferred anywhere from one department to another and one place to another without any extra remuneration depending on exigencies of the work.
6. The outsourced person shall all the time maintain absolute integrity and devotion to duty and conduct himself/ herself in a manner conducive to the best interests, credits and prestige of DFCCIL.
7. The Contractor shall indemnify and keep DFCCIL indemnified and harmless from and against all disputes, claims, fines, penalties, losses, litigations criminal as well as civil that may be initiated against the DFCCIL, on account of any action/work of contractor and/or arising out of the failure of the Contractor to adhere to any statutory requirement, or to follow such rules regulations, guidelines or procedures as may be required under any statute or directive.
8. If there are varying or conflicting provisions in the documents forming part of the contract, DFCCIL representative shall be deciding authority with regard to the intentions of the provision and his decision will be final and binding on the contractor.
9. Safety of the staff to be ensured by the contractor, where the construction & maintenance activity in the section is still in progress.
10. All released materials/scrap from site shall be returned to DFCCIL by Contractor.
11. The work will be executed under Guidance of Jr. Executive/ Executive/Sr. Executive/JPM/APM/Elect/Dy. PM/Elect in-charge of the sections.
12. **Guarantee / Defect Liability Period: -**
 - (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 specifications, drawings and other contract stipulations, **for a period of 03 months from the date of taking over by the Employer.**
 - (b) 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.

- (c) 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.

(d) **Final Acceptance:-**

The final acceptance of the entire work executed shall take effect from the date of expiry of the period of guarantee / Defect Liability period as defined in paragraph 1.13 above of the expiry of the last of the respective periods of guarantee, provided in any case that the Contractor has complied fully with his obligations under clause 1.13, provided also that the attention has been paid by way of maintenance by the Employer. The contract shall not be considered as completed until the issue of final acceptance certificate by the Employer.

13. Accidents and Safety Related Instructions:

1. Accident:-

- (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.
- (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.
- (c) The contractor's 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 and further the liability of the contractor will be limited to Rs.5 lakh for any one accident.
- (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.

2. Safety Measures:-

- (a) The contractor shall take all precautionary measures in order to ensure the protection of his own personnel moving about or working on the railway premises, but shall then conform to the rules and regulations of the Railway if and when, in the course of the work there is likely to be any danger to persons in the employment of the contractor due to running traffic while working in the Railway siding and premises, the contractor shall provide flagman or look out men for protection of such persons. The employer shall remain indemnified by the contractor in the event of any accident occurring in the normal course of work, arising out of the failure of contractor or his men to exercise reasonable precaution at all places of work.
- (b) Blasting of rocks for foundation work shall be done only after due notice is given to the employer and time/s and date /s for blasting operations agreed to by the employer. Blasting, if required to be done in the vicinity of the track, shall not be undertaken until the Employer's flagmen on duty take necessary step to protect trains and the track is adequately protected by the contractor against damage by blasted rock. The contractor shall follow detailed instructions which will be issued to him regarding blasting operations in the vicinity of tracks.
- (c) The contractor shall abide by all Railway regulations in force for the time being and ensure that the same are followed by his representatives, Agents or sub - contractors or workmen. He shall give due notice to his employees and workers about provision of this para.
- (d) The works must be carried out most carefully without any infringement of the Indian Railway Act or the General and Subsidiary Rules in force on the Railway, in such a way that they do not hinder Railway operation or affect the proper functioning of or damage any DFCCIL equipment, structure or rolling stock except as agreed to by the employer, provided that all damage and disfiguration caused by the contractor at his own cost failing which cost of such repairs shall be recovered from the contractor.
- (e) If safety of track or track drainage etc. is affected as a consequence of works undertaken by the contractor, the contractor shall take immediate steps to restore normal conditions. In case of delay, the employer shall, after giving due notice to the contractor in writing, take necessary steps and recover the costs from the contractor.

3.0 SAFETY PRECAUTIONS:

3.1 MEASURES TO BE ENSURED PRIOR TO START OF WORK:

1. The contractor shall not start any work without the permission of DFCCIL supervisors at site.
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.
3. Before permitting the execution of certain works like earthwork in formation, bridge work, supply of ballast, transportation of rails, sleepers and other material, track linking, platform/any other civil work close to the running track etc. for new/existing rail lines, gauge conversion, doubling, traffic facility work, ROB/RUB, 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.

4. Name and address of the contract assigned to execute the work.
 - (i) Name of the Contractor's supervisor
 - (ii) 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.
 - (iii) List of the number(s) of individual vehicle(s)/ machineries, names and license particulars of the driver(s) proposed to be used by contractor.
 - (iv) Information regarding location, duration and timings during which the vehicles/machinery are planned to be plied/worked.
 - (v) 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 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.
 - (vi) 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.
 - (vii) Written advice to sectional APM/DPM about the detailed planning of work including protection of track and safety measures proposed to be adopted.
 - (viii) 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.
 - (ix) 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.
 - (x) 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.
 - (xi) No work shall which is to be done near running track shall commence unless permitted by sectional APM/DPM/PM/Dy.CPM
 - (xii) Supplementary site specific instructions, wherever considered necessary shall be issued by the Engineer in Charge
 - (xiii) 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.

3.2 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 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.
- In no case the road vehicle shall run or machinery shall work at distance less than 3.5m from center line of track.
 - 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.
 - Presence of an authorized DFCCIL's representative shall be ensured before plying of vehicle or working of machinery.
 - 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.
 - 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.
 - 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:
- 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.
 - Presence of a DFCCIL's Supervisor shall be ensured at worksite.
 - 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.

3.3 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 sunrise and sunset. In case of emergency where it is necessary to work during night hours sufficient lighting shall be 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 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. 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.
 - (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.
- (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) **Safety aspects to be observed while working in OHE area**
- (a) No electrical work close to running track shall be carried out without permission of DFCCIL representative.
 - (b) A **minimum distance of 2m** has to be maintained between live OHE wire of DFCCIL/Indian Railway and body part of worker or tools or metallic supports etc.
 - (c) No electric connection etc. can be tapped from OHE.
 - (d) Authorized OHE staff should invariably be present when the relaying work or any major work is carried out.
 - (e) Power block is correctly taken and 'permit to work' is issued.
 - (f) The structure bonds, track bonds, cross bonds, longitudinal rail bonds are not disturbed and
 - (g) If disconnected for the work, they are reconnected properly when the work is completed.
 - (h) The track level is not raised beyond the permissible limit during the work.

3.4 PROTECTION OF TRACK DURING EMERGENCY

- (i) **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. 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.
Attempts shall also be made to send an advice to nearest DFCCIL station about the incident immediately.
- (ii) **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.**
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.
- (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) 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.
The protection shall be done in that direction and on that track first on which train is likely to arrive first.
 - c) The Contractor's Supervisors, Operators and lookout men shall be properly explained about the direction of trains on running tracks.

- (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.

3.5 TRAINING TO SUPERVISOR 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 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

3.6 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:-

- (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.

3.7 **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.

3.8 Contractor Staff shall have competency certificate as per Format.

Competency Certificate

Certified that Shri _____
Technicians/Helpers 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 Executing the work safely.

This certificate is valid only for the work mentioned in this certificate only.

Signature and designation of the officer

PART V (b)
SCOPE OF MAINTENANCE SCHEDULE

1. General Instructions:

a)	Wherever an item of work covers erection, such item shall include all bolts, nuts and washers of GI/SS etc. as per DFCCIL latest specification & drawing. No separate payment for fabrication of materials for using in maintenance / replacement purpose is admissible.
b)	Erection of any item of equipment, which is supplied by the contractor, will include testing, commissioning and bringing the equipment into operation to the entire satisfaction of the purchaser.
c)	The basic quantity of components and materials required to make up a unit of work for the selected items are indicated for guidance only. There may be minor variation to suit erection but no adjustment in prices shall be made on that account. Prices quoted shall be inclusive of all incidental charges viz. freight, handling, taxes, duties, insurance if any as applicable and GST shall be extra
d)	Generally HIGH-RISE OHE components will be supplied by the DFCCIL.
e)	All works shall be carried out strictly in accordance to the DFCCIL drawings, specifications and guidelines if any. However, any modified arrangement if in vogue in DFCCIL or suggested by CGM/BRC Unit, the work shall be executed accordingly without any alteration in accepted rates.
f)	Explanatory note for various items of works in the Schedule of item, quantities and prices are given. The Checking and maintenance of all items of 2x25kV HIGH RISE OHE including AOH & POH as case may be shall be carried out in line with maintenance manual and as per Latest SMIs if any during contract period OR as per the Procedure in vogue in TRD organization of respective sections. No additional payment will be made for any additional man power deployment in attending to latest maintenance instructions if any. In-case of disputes between above standards if any, the decision of concerned CGM/BRC unit is the final and contractor is bound to act accordingly.
g)	Contractor shall get tested each insulator for tensile strength at DFCCIL's testing machine based on maintenance manual of DFCCIL. However, no charge will be levied for usage of machine for testing. All tested insulator shall marked "T" with date with "RED" paint.
h)	The special condition & Technical specifications for schedule items are enclosed and Tenderer shall go through them thoroughly before submitting offer.
i)	Power cum Traffic block for various maintenance activities shall be arranged by DFCCIL either in daytime / night time as per slot available in the section. No additional payment will be made for night working.
k)	The D-form against sales tax will not be issued. Service Tax/GST if claimed by the contractor will be processed separately after finance concurrence and sanctioned by the competent authority. Claim of service tax/GST should be supported by deposit receipt from service tax/GST department, without documentary proof the claim shall not been entertained by the DFCCIL Authority.

l)	All the safety precautions for men and material working within DFCCIL/Railway premises should be taken by the contractor. The contractor shall be responsible in all respect, if any of their workmen meets with an accident due to non-observation of the safety precautions. Tenderer shall indemnify DFCCIL against any or all claims which may arise because of any reason under any circumstances / incident / accident.
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2. Explanatory Notes:

Explanatory notes for the various schedule items are depicted for guidance purpose only. Contractor has to abide any change in scope of maintenance activity as per guidelines/Special maintenance instructions issued by DFCCIL/RDSO from time to time and to be carried out as per the instructions of DFCCIL In-charge. In case of any dispute regarding the scope of maintenance activity as detailed in the Explanatory Notes, the decision of DFCCIL's Engineer-in- Charge of work shall be final and binding on the Contractor.Explanatory notes are given below for all items given in schedule of prices for the guidance of tenderer.

Schedule 1: Regular Maintenance Activity:

Sch.1	SI. No. 1	Checking & Maintenance of Cantilever assembly (Annually)
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The price shall cover annual checking & maintenance of Cantilever assembly including all components, Stay & Bracket insulators, dropper wires and copper wires include small parts steelwork of cantilever.

The Checking and Maintenance of Cantilever assembly shall be carried out once in a year. The maintenance work to be done are as under:

- i. Check rail level and setting distance against markings on the masts and entries in the Register. Variation above 30mm in setting distance and 20mm in rail level should be notified for correction. Variations, even within the above limits, should not be permitted if the Schedule of Dimensions are infringed.
- ii. Check all tightness of bolts, nuts and check nuts and pins and provide if found deficient/ rusted/cracked.
- iii. Check all galvanized tubes and fittings. Where galvanization is found to be chipped off, the fitting of pipe should be replaced. Minor chippings may be repaired using 'cold galvanizing paint'to be supplied by DFCCIL.
- iv. Examine all tubes, arms, SPS, steady arm, inclined dropper and fittings for cracks and replace if required.
- v. Clean all insulators and carefully check as per laid down procedure with soft cloth. Check for any flash mark, cracks and other damages and decide for replacement in consultation with DFCCIL, cost of replacement will be payable under other item
- vi. Check and ensure exact Encumbrance on single /multiple cantilevers as per as SED

- vii. Measure dip of contact wire and ensure to be 30 cm or more.
- viii. Check condition of catenary wire under suspension clamp and see whether any strand is cut/damage.
- ix. Check condition of contact wire under RRA clamp. Report if RRA clamp is without chamfered edge. Ensure that there is no sharp bend and crack in contact wire. Shift the RRA clamp if required.
- x. Check tightness of inclined dropper clamp for full tightness and ensure no slipping.
- xi. Record make and batch no. of all insulators.
- xii. Check the condition of OHE Masts, Portal structures, booms, DAs, Bridge masts, Special mast etc. for any corrosion, hit mark, welding defect etc. Apply cold galvanization for small damage of zinc coating. Check tightness of fasteners of various fittings viz. knee bracing, cover angles, bridge mast rag bolts, ERS mast rag bolts etc. provide missing nuts / check nuts.

Cantilever Maintenance report shall be filled in the format given in Maintenance performa, which to be signed by DFCCIL and contract representatives.

Sch.1	Sl. No. 2	Checking and maintenance of 2x25 kV OHE conductors. (Annually)
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The price shall cover annual checking & maintenance of OHE conductors including contact and catenary wire, droppers, dropper clips, 9-ton cut in insulator etc. The price shall also include recording of parameters, rectification of defects, adjustment, attending hard spot etc. replacement/ provision of defective/ deficient part. The Checking and Maintenance of 2x25 kV OHE conductors shall be carried out once in a year. The maintenance work to be done are as under:

- (i) Check and record heights and staggers of contact wire and adjust if found in variance with SED.
- (ii) Checking and recording of contact wire diameter at Km/1,2 and 25,26 of each km (20 mm before the swiveling clip in the direction of traffic)
- (iii) If height and stager found to be in variance with SED. Check implantation and rail level and compare with SED. Report to Engineer/DFCCIL department for rectification.
- (iv) Close coordination with Engineer/DFCCIL deptt. shall be established during major track works like curve re alignment, deep screening, TSR/TRR etc. and counsel them not to alter track level and track center. Special checking may be done after major track works if required as decided by DFCCIL.
- (v) Check and record height and stager of catenary wire and adjust if required.
- (vi) Check carefully condition of contact and catenary wires, particularly for kinks and twists in contact wire and broken strands of catenary wire. Any stranded conductor (catenary wire, negative feeder wire, aerial earth wire etc.) should

be spliced if more than 20 per cent of the strands are broken.

- (vii) Check droppers and tighten bolts wherever required. Broken or cut droppers shall be replaced.
- (viii) Check smooth the profile of OHE. Dropper spacing, verticalness should be checked and rectified.
- (ix) Check and maintain tightness of already fixed splices in OHE conductors.
- (x) Check all bolts, nuts, check nuts, pins etc. and provide if found deficient.
- (xi) Checking of RRA clamps and contact wire at double cantilevers.
- (xii) Check and clean 9- ton cut in insulators of IOL, LS wire or anti creep wherever come during checking.
- (xiii) Check and attend hard spots noticed during current collection test.
- (xiv) Check and attend parallel clamp, contact wire dropper clip, catenary wire dropper clip complete with bolts, nuts etc., catenary ending clamp, large span wire clamp, adjuster, anchor double strap assembly, compensating plate / equalizing plate.
- (xv) Check, clean and tighten fasteners of caution boards, number plates etc.
- (xvi) Miscellaneous, if any.

This schedule should be carried out by Tower Wagon, provided by DFCCIL. OHE conductor checking report shall be filled in the format in given Maintenance performa, which to be signed by DFCCIL and contract representatives.

Sch.1 Sl. No. 3	Checking & Maintenance of all types of 2x25kV HIGH RISE OHE Jumpers (Not included in other items)
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The Checking and maintenance of 2x25kV HIGH RISE OHE Jumpers shall be carried out in line with Maintenance Manual of DFCCIL. Following jumpers are not included in this items and maintenance of these jumpers shall be paid under respective item as:-

- (a) G- Jumper at UIOL
- (b) G- Jumper at Turn out/ cross overs.
- (c) Continuity jumper at anti creep center
- (d) Potential equalizer jumpers at IOL.
- (e) Jumper at feeder and AEC termination.
- (f) antitheft jumpers
- (g) Continuity jumper in IR type OHE.

The maintenance of all other types of jumpers i.e., Gantry jumpers, feeder to OHE jumpers, PHjumper, isolator jumpers or any other type of jumpers shall be payable under this item.

The maintenance activities to be carried out are as under:-

- (i) Check condition of jumper wire. Check and if any strand is cut, the jumper shall be replaced.
- (ii) Remove any sulphation mark from jumper.
- (iii) Check for any sharp bend, slackness in jumper wire and remove by adjusting position of PGclamps.
- (iv) Check condition of jumper under PG clamps for melting/ overheating marks and attend asrequired.
- (v) Check condition of PG clamps with tightness of fasteners. Replace if found corroded/ overheated
- (vi) Check whether ends are brazed properly and attend/ replace as required.
- (vii) Check for availability of bi metallic strip if required and provide if found deficient.
- (viii) Check clearance of jumper from nearby structures and conductors and ensure that in no caseclearance is reduced below specified electrical clearance.

The price shall cover checking and maintenance adjustment of jumper wires. The price shall coveradjustment of all components including PG clamp and Jumper wires shaping.

In case any jumper is required to be replaced same shall be done under this item, and no extrapayment will be made for this replacement.

Jumper maintenance report shall be filled in the format in Maintenance performa, which to be signed byDFCCIL and contract representatives.

Sch.1	Sl. No. 4	Checking & Maintenance of Overlaps (IOL/UIOL) (Annually)
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The price shall cover checking and maintenance of 04-span insulated and un insulated Overlaps (IOL/UIOL) in line with Maintenance Manual/Approved drawings (As Build Drawings) /Specificationsof DFCCIL with its latest correction slips, if any.

The maintenance activities to be carried out are as under: -

- (i) Checking and adjustment of G jumpers and potential equalizer jumpers with PG clamps as per schedule given in item no. 03 above
- (ii) Checking and adjustment of horizontal clearance between two OHE (500 mm for IOL and 200 mm for UIOL). Electrical clearance of more than 320 mm at intermediate location of IOL. Adjust if required.
- (iii) Checking and adjustment of encumbrances, height and stagger at cantilevers of 04- span over laps as per approved as erected drawing of DFCCIL.
- (iv) Checking and ensuring smooth parallel running (sweeping zone) of pantograph on both the OHEs more than 5 meter. Adjust the profile of OHE if required.
- (v) Checking and cleaning of 9- ton cut in insulators at IOL. Checking and

ensuring availability of washers, split pins, snap head pins in equalizing plates/ double straps.

- (vi) Checking condition of ending cones and verticalness of equalizing plates at cut in insulators. Carry out adjustment if required.
- (vii) Checking of large span wire and end clamps if provided.

The price shall cover checking and maintenance of all components and fittings with fasteners installed at Overlaps (insulated or uninstalled) including overlaps for jumper connections between.

The IOL/UIOL maintenance report shall be filled in the format in Maintenance performa, which to be signed by DFCCIL and contract representatives.

Sch.1 Sl. No. 5	Checking & Maintenance of Anti creep arrangement
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The Checking and maintenance of Anti creep arrangement shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL with its latest correction slips, if any.

The price shall cover following activities:

- (i) Checking of steel/ copper anti creep wire for rusting, broken strand, excess sag / tension etc. The excess sag / tension shall be attended by suitably tightening/ opening 9- ton adjuster. The anti-creep wire with excessive rusting./ broken strand shall be planned for replacement in consultation with DFCCIL.
- (ii) Checking of termination arrangement at both anchor structures including ending cone, double straps, double eye distance rod, 9 ton insulator adjusters, single clevis, mast anchor fittings with bolts & nuts etc. tightness of mast anchor fitting should be ensured.
- (iii) Checking of Guy rod assembly with other fitting viz guy rod anchor fitting, anchor double strap assembly, guy rod stirrup, V- bolt and U- bolt for any rusting or missing pins/ nuts and attend any deficiency.
- (iv) Checking and cleaning of 9- ton insulators.
- (v) Checking of tightness of double suspension clamp and wire condition under it
- (vi) Checking of PH jumper/ H- jumper between anti creep and catenary wire at ACC.
- (vii) Checking/cleaning of muffing of anchor block of guy rod assembly.

Joint maintenance report shall be filled in the format in Maintenance performa, which to be signed by DFCCIL and contract representatives.

Sch.1 Sl. No. 6	Checking & Maintenance of 2x25kV Isolator (SP/DP) including earthing heel arrangement if any
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The Checking and maintenance of Isolator assembly shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings) /Specifications of DFCCIL's with its latest correction slips, if any

The price shall cover checking and maintenance of 2x25kV Isolator (SP/DP) switch complete with post insulators, bus bar and related small part steel, operating rod, operating rod guides and operating rod insulator, mounting base, arcing horns, integral lock etc.

including earthing heel arrangement and motorized unit if any. The earthing heels provision if any or earth electrode, including all fastenings at both ends. Inspection of earths pits, watering of all earth pits and recording earth resistance. Earths having resistance of over 10 ohms should be attended to as per the provisions made in maintenance manual of DFCCILs with its latest correction slips if any. The required coke, crushed coal and salt will be supplied by DFCCILs at no cost to the contractor.

The price shall include for making jumper connection with HIGH RISE OHE, if required. The price shall also cover erection of the new 2x25kV Isolator (SP/DP) assembly complete on HIGH RISE OHE mast / structure gantries including erection of jumper, bus bar, if required and no extra payment will be made for this replacement.

The job shall also include

- i. Check number plates for cleanliness and security.
- ii. Check correctness of operation, alignment of contacts and arcing horns.
- iii. Check earth continuity where applicable.
- iv. Lubricate moving parts and locks.
- v. Check interlocks where ever provided.
- vi. Check that the distance between male and female contacts in open position is 380 mm to 500 mm depending upon the type of isolator.
- vii. Checking of all insulators (Pedestal & Tie rod)

The Joint Report/Maintenance sheets to be signed by Engineer/DFCCIL in-charge and Contractor's representative which will be submitted by contractor to DFCCIL centralized office.

Sch.1 SI.No. 7	Checking & Maintenance of 2x25kV OHE at Turnouts
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The Checking and maintenance of 25kV HIGH RISE OHE at Turnouts shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings) /Specifications of DFCCILs with its latest correction slips, if any

The price shall cover checking and maintenance of all components and fittings with fasteners installed in 25kV HIGH RISE OHE at turnouts including knuckle or crossing equipment at a turnout and parallel clamps for jumper connections between two sets of overhead equipment conductor at a turnout. The price shall also cover maintenance of jumper wire and all adjustments required at turnouts, crossing whenever required. Turnouts Maintenance sheets to be signed by both Railway and contract representatives.

The job shall include

- i. With OHE Inspection Car running on main line checkup if pantograph glides smoothly under the loop line OHE. (Take off)
- ii. With OHE Inspection Car running on loop line checkup if pantograph glides smoothly under the main line OHE. (Take on)
- iii. Check stagger of both the OHEs at turn outs.
- iv. Check that the main line OHE of overlap type turn out is about 50mm below that of the turnout OHE.
- v. Checkup cross contact bar, if any, for displacement and distortion.

- vi. Check up for hit marks, if any (Implantation).
- vii. Checkup rail level and setting distance of the obligatory mast.
- viii. Check up for hard spots near rigid droppers, if any.

The Joint Report/Maintenance sheets to be signed by Engineer/DFCCIL in-charge and Contractor's representative which will be submitted by contractor to DFCCIL centralized office.

Sch.1 SI.No. 8	Checking & Maintenance of 2x25kV OHE on a crossover
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The Checking and maintenance of 25kV HIGH RISE OHE on a crossover shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings) /Specifications of DFCCILs with its latest correction slips, if any

The price shall cover checking and maintenance of all components and fittings with fasteners installed in 25kV OHE on a crossover including knuckle or crossing equipment at both side turnouts or a diamond crossing and parallel clamps for jumper connections between two sets of overhead equipment conductor. The price shall also cover maintenance of jumper wire, section Insulator assembly on crossover and all adjustments required at both turnouts of cross over, crossing whenever required. Cross over Maintenance sheets to be signed by both DFCCIL and contract representatives.

- i. With OHE inspection car running on main line checkup if pantograph glides smoothly under the loop line OHE.
- ii. With OHE inspection car running on loop line checkup if pantograph glides smoothly under the main line OHE.
- iii. Check stagger of both the OHE"s at turn outs (it shall not normally exceed 300mm)
- iv. Check that the main line OHE of overlap type turn out is about 50mm below that of the turnout OHE.
- v. Check cross contact bar, if any for displacement and distortion.
- vi. Checkup for hit marks, if any.
- vii. Check up rail level and setting of the obligatory mast.
- viii. Check up for hard spots near rigid droppers, if any

The Joint Report/Maintenance sheets to be signed by Engineer/DFCCIL in-charge and Contractor's representative which will be submitted by contractor to DFCCIL centralized office.

Sch.1 SI.No.9	Checking & Maintenance of Section Insulator assembly
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The Checking and maintenance of Section Insulator assembly shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings) /Specifications of DFCCILs with its latest correction slips, if any.

There are two type of section insulator i.e. Galland make and IR type. The payable rates

both type of section insulator will be same.

Maintenance schedule for Galland make section insulator:

The price shall cover checking and maintenance of all components including the core insulating rod installed section insulator assembly including special arrangement at support & terminal fittings for conductors including adjustable dropper wire. The price shall cover adjustment of all components including 9 ton insulator on the catenary & leveling of runners etc. Price shall also cover replacement of any section insulator part, if required and no extra payment will be made for this replacement.

The maintenance activity shall be as under:-

- (i) Check axial distance between Catenary and Contact wire. It shall be more than 450 mm
- (ii) Check Track separation at the location of Section insulator. It shall be as under:
 - When Runners toward the center of Turnout - 1650 mm
 - When Runner away from center of Turnout - 1450 mm
- (iii) Stagger of Section Insulator - Not more than +/-100 mm
- (iv) Distance of Section Insulator from support -2 to 10 m
- (v) Alignment of Runners - Properly aligned
- (vi) Leveling with Spirit level - Shall be level
- (vii) Condition of Anchor clamp-Normal
- (viii) Sag of Section Insulator - Zero
- (ix) Measure Contact wire diameter. it should be as under: -
 - Facing end ≥ 10 mm for 107 Sqmm,
 - ≥ 13 mm for 150 Sqmm
 - Trailing end - same as above.
- (x) Measure air gap between runners- > 330 mm.
- (xi) Make sure that no damage or shocks on the section insulator have been generated by pantograph crossing.
- (xii) Verify section insulator adjustment by simulating the passage of the pantograph by means of a pantograph gauge or a ruler.
- (xiii) Check that stainless steel runners wear is uniform; one runner more worn than another means a bad adjustment.
- (xiv) Maximal admissible wear is 5 mm. So as soon as the thickness of the runner is 3 mm they must be replaced.
- (xv) Control longitudinal and transversal parallelism of the section insulator with regard to track level, correct if necessary.
- (xvi) Check that all screws, counter-nuts, clamps and turnbuckles are blocked.
- (xvii) Finally, clean the section insulator with soapy water if necessary.

Maintenance schedule for IR type section insulator:

- (i) Check axial distance between Catenary and Contact wire. It shall be more than 450 mm
- (ii) Check Track separation at the location of Section insulator. It shall be as under:

- When Runners toward the centre of Turn out -1650 mm
 - When Runner away from centre of Turn out - 1450 mm
 - (iii) Stagger of Section Insulator - Not more than +/-100 mm
 - (iv) Distance of Section Insulator from support.
 - For overlap type X-over/Turn out -2 to 10 m
 - For knuckle type X-over/Turn out - More than 2 m
 - (v) Alignment of Runners -Properly aligned
 - (vi) Leveling with Spirit level - Shall be level
 - (vii) Condition of Anchor clamp - Normal
 - (viii) Clearance between runners and contact wire - 250 mm
 - (ix) Sag of Section Insulator - Zero
 - (x) Record Insulator Make & Batch
 - 9T insulator-
 - Solid Core Insulator-
 - (xi) Measure Contact wire diameter . it should be as under:-
Facing end ≥ 10 mm for 107sqmm ,
 ≥ 13 mm for 150 sqmm Trailing end - same as above.
 - (xii) Condition of balancing droppers No looseness/ burning/ worn out
 - (xiii) Checking of stiffener on both side of SI for following Normal
 - (xiv) Length of Stiffener facing end and Trailing end ≥ 1000 mm
 - (xv) No droppers on Stiffener Facing end & Trailing end Minimum 2 nos.
 - (xvi) Clean solid core and 9- ton insulator by cloths. Check for any flashing/ chipping. Replace insulators if found flashed or more than two disc broken/ cut or polymer found cracked.
 - (xvii) Check runners for flash-marks, hit marks and proper adjustment,
 - (xviii) Tighten PG clamps of droppers and stiffeners.
 - (xix) Miscellaneous, if any
- Joint maintenance report shall be filled in the format Maintenance performa, which to be signed by DFCCIL and contract representatives.

Sch.1 Sl.No. 10	Checking & Maintenance of Auto Tensioning Device (ATD)
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The Checking and maintenance of Auto Tensioning Device (ATD) shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings) /Specifications of DFCCILs with its latest correction slips, if any.

The price shall cover checking and overhauling of Auto Tensioning Device (ATD) provided in the section including 9-ton adjuster with double strap assembly and normal/anti-theft guide tube assembly, stainless steel wire rope, Guy rod assembly and small parts of steel works and also replacement of bearing if ATD jammed including transportation. Price shall also cover adjustment of "X & Y" value either by mechanism provided or by cutting of conductors, if required. The price also covers adjustment of the entire regulating equipment. The price shall also cover cleaning of muffing of Anchor block of Guy Rod. The work shall be carried out as and when required by Engineer/DFCCIL, in-charge during the contract period.

The job shall include

- i. Check 'X' and 'Y' dimensions in the case of pulley block type equipment against prescribed values for the temperature at the time of checking. Make use of turn- buckles to adjust as required.
- ii. Check that the compensating plate is vertical. If not, adjust as required.
- iii. Lubricate pulleys (if required as per maintenance instructions) and other moving parts.
- iv. Check if 20 mm wide bands in black colour are painted (Paint will be provided by DFCCIL) on the mast to indicate upper and lower limits of movement of counter weight.
- v. Check condition of stainless-steel wire rope for any signs of corrosion and breakage of strands.
- vi. Check free movement of ATD.
- vii. Check for free siding at L- angle of ATD rod

The Joint Report/Maintenance sheets to be signed by Engineer/DFCCIL in-charge and Contractor's representative which will be submitted by contractor to DFCCIL centralized office.

Sch.1 SI.No.11	Foot patrolling to be carried out along with schedule with one DFCCIL staff. (Fortnightly)
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The Checking and maintenance of 2x25kV HIGH RISE OHE by Foot Patrolling shall be carried out in line with Maintenance Manual/Specifications of DFCCILs.

The price shall cover foot to foot visual checking of complete of HIGH RISE OHE and on completion of the foot patrolling the report should be submitted to the depot-in-charge as per prescribed Performa. The Performa should to be arranged by the contractor as advised by DFCCILs. The foot patrolling is to be carried for each section every fortnight.

The price shall also include

- I. The object of foot-patrolling is to make visual inspection of every part of the OHE (including feeder line) so that any defects and abnormalities noticed are recorded and reported to the maintenance gangs for attention.
- II. The engaged staff on foot-patrol should be equipped with signal flags, an emergency telephone instrument and essential tools required for attending to defects on the spot e.g., spanners for tightening bond connections, Spring balance
- III. The staff/labour on patrol duty should particularly look for the following:
 - (a) Chipped or damaged insulators.
 - (b) Displaced fittings and droppers.
 - (c) Excessive sagging or hogging of contact wire.
 - (d) Whether equalizing plate is tilted.
 - (e) Free movement of auto-tensioning device/ Strands cut in SS rope and position of counterweight with reference to upper and lower limits of movement marked on the mast.
 - (f) Presence of protective screens, caution and warning boards and anti-climbing devices.
 - (g) Structural soundness of height gauges at level crossings and availability of 25KV danger boards on Level crossing guard
 - (h) Bird-nests and pieces of stray wire likely to cause short circuits and branches of trees likely to infringe the OHE;

- (i) Defective bonds and earth connections;
 - (j) Any obstructions including tree branches in the way of free movement of pantograph and trains;
 - (k) Signs of heavy sparking when trains pass;
 - (l) Isolators blades being fully in and for signs of sparking or overheating of isolators as also condition of locks;
 - (m) General condition of switching stations en-route;
 - (n) Tilting of masts especially on high banks and masts with sand-core foundations;
 - (o) Number plates.
 - (p) Any other abnormal/unusual situation.
- (iv) Various special drives as and when issued by DFCCIL or Railway board are also to be inspected and checked for deficiency as advised by depot in charge The Joint Report/Maintenance sheets to be signed by Engineer/DFCCIL in-charge and Contractor's representative which will be submitted by contractor to DFCCIL centralized office.

Sch. 1 Sl.No.12

Checking & maintenance of all type of bonds including cleaning of muffs at OHE mast

The price shall cover Checking & Maintenance of Bonds of various types provided as per earthing and bonding plan of DFCCIL. There are different type of bonds. These will be considered as one unit as under:

- (i) Transverse integral bond connecting both side mast- running rails – BEC at every 425 mtr interval open route. (Each TIB to be considered as one unit).
- (ii) Transverse integral bond connecting both side mast- running rails – BEC at every 425/250 mtr interval in yards. (Each TIB to be considered as one unit).
- (iii) Yard independent OHE mast / portal bond connection with running rail. (Each bond to be considered as one unit)
- (iv) Gantry structure connection with BEC. (Each bond to be considered as one unit)
- (v) Connection by 20 mm dia Steel wire to BEC at Minor Bridge, box culverts, RUB, via duct, major bridges. (Each bond to be considered as one unit).
- (vi) U- Bond connection of guard rail with running rail. (Each U- bond to be considered as one unit).

The price shall include checking tightness of fasteners, ensure good connection, and check for any damage / deficiency in the bonding connections. The deformed / De-shaped / uplifted bond shall be opened and reshaped and re-fixed. Each bond shall be dressed/ shaped in such a manner that no obstruction is caused to any staff walking along the tracks. The deficient nut bolts / clamps shall be provided under this item, the material will be supplied by DFCCIL. The

price shall also include of the painting of MS flat by black bituminous / red oxide paint as per directive of DFCCIL staff for which material will be given by DFCCIL.

The price shall also include cleaning of muff so that bond connection is clearly visible. The contractor shall repair the muff in case found broken at bond location.

The work shall be carried out in the section having problems on priority as per direction of DFCCIL staff.

Joint maintenance report shall be filled in the format in Maintenance performa, which to be signed by DFCCIL and contract representatives.

Sch.1 SI.No.13	Removal of & Re erection of bonds of various type during track machine working or Erection of missing/new bonds (Paint etc.)
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The work shall include the erection of the bond in place of the any missing bond or removal of during track machine working.

The Joint Report/Maintenance sheets to be signed by Engineer/DFCCIL in-charge and Contractor's representative which will be submitted by contractor to DFCCIL centralized office.

Sch.1 SI. No. 14	Checking & Maintenance of leaning of OHE mast till a new mast erected
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The job covers checking and maintenance of leaned masts till a new mast is erected and erection of new mast if required. The job shall also covers packing and ramming with pieces of stone and strengthening by pouring cement concrete (Price is covered in Foundation). Job shall cover for OHE foundation casting (Price is covered in foundation) including drilling of hole in mast/portal as per the directives of Engineer/DFCCIL and after recasting of foundation (Price is covered in foundation), muff shall be provided including white wash (material provided by DFCCIL). A temporary structure or guy as convenient / as per railway requirement to be provided (material to be provided by railway). The work must be so done that when the Tirfor is released the mast remains reasonably vertical with the allowance of reverse deflection as required. The job includes releasing & reloading of OHE load from / to the OHE mast.

Note: To eliminate excess/abnormal leaning mast suitable foundation to be cast and new mast to be provided. (Which is covered separately in the schedule)

Sch.1 SI.No.15	Checking & Maintenance of PTFE type neutral section (Quarterly)
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The Checking and maintenance of this item shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL's with its latest correction slips if any as per instruction of DFCCIL representative.

The price shall cover checking and maintenance of PTFE rod, bracket of neutral section, insulating rod, arching horns, length of skid' bulb, turnbuckles, condition of adjuster, earthing jumper, splices, lock nut pins & droppers, etc.

The maintenance activity shall be as under: -

- (i) Check the contact end splices,
- (ii) Check the diameter of PTFE Rod (New rod dia-24 mm),
- (iii) Clean the PTFE Rod with paste recommended by OEM, or clean by water and soft detergent.
- (iv) Check the stagger of PTFE Bracket and adjacent brackets
- (v) Check the wear of the insulator rod (Insulator rod can be used in 5 positions)
- (vi) Check the level of the PTFE assembly by spirit level.
- (vii) Check the wear of the runners.
- (viii) Check the Catenary ending cones.
- (ix) Check the condition of skid for any hit mark/damages.
- (x) Check the profile at bottom portion of all skid and record thickness.
- (xi) Check earth electrode its connection to N.S. mast and negative rail. If not same be connected. (Earth value should be less than 10 Ohms)
- (xii) Check height at Neutral section bracket and adjacent brackets. Ensure that the height at PTFE location is 70 mmm above average height of contact wire at adjacent locations.
- (xiv) Check the profile of skids at bottom portion and record it's thickness, if thickness of bulb reduced to 2 mm or less, same should be replaced immediately.

Joint maintenance report shall be filled in the format in Maintenance performa, which to be signed by DFCCIL and contract representatives.

Sch.1 SI.No.16	Checking & Maintenance of Portal boom, drop arms and fabricated Masts free from foreign body including Bird Nests
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The Checking and maintenance against this item shall be carried out in line with Maintenance Manual/Approved drawings/Specifications of DFCCILs with its latest correction slips if any as per instruction of DFCCIL representative.

The price shall cover Checking & Maintenance of Portal boom, drop arms and fabricated masts free from Bird Nests and removal of bird nest as identified by foot patrolling staff / during other inspection. Requirement of power block will be jointly decided by the contractor and the sectional DFCCIL supervisor, Necessary power block will be obtained from authorized DFCCIL's representative and no extra payment will be made for this removal of bird nests under Power block.

Sch.1 SI.No.17	Trimming of tree branches to maintain minimum 6 meter clearance from OHE
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The price shall cover trimming of tree branches as identified by foot patrolling staff / during other inspection / checking. No part of the tree shall be nearer than 6 meters from the nearest live conductor. Requirement of power block will be jointly decided by the contractor and the sectional DFCCIL supervisor. Necessary power block will be obtained from authorized DFCCIL's representative only for trimming of tree branches. The accountal & disposal of trimmed branches will be the responsibility of DFCCIL department. Necessary equipment for trimming to be arranged by contractor.

Sch.1 SI.No.18	Erection of 25 kV overhead equipment as per requirement
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The Price shall cover erection of 25kV overhead equipment's and fabrication of cantilever

assembly of different size & tubes including catenary, contact, dropper, cut in insulator & jumper wires. The price shall also cover erection of all components and wires / conductors including contact wire, catenary wire, cut in insulator droppers, jumpers and terminating wire, if any but excluding small part steel work if any. The price shall also include erection of structure identification plates/number plates with bolt & nut with GI fasteners and also include replacing/attending the damaged /bent/faded plates by the contractor with the cost of cleaning & painting the setting distance of mast or structures.

The price shall cover erection of 25kV caution boards, 25 kV caution notice board and warning board in Hindi & English language wherever required with mild steel galvanized clamps, required washers and bolts & nuts etc. The price shall include GI fasteners with GI fixtures for erection of enameled number plates, contact height, rail level and location of emergency sockets on mast / structures. No additional payment will be made for manual stringing of conductor viz. catenary, contact wire etc.

The Joint Report/Maintenance sheets to be signed by Engineer/DFCCIL in-charge and Contractor's representative which will be submitted by contractor to DFCCIL centralized office.

Sch.1 Sl. No. 19	Checking and compilation of hotspot of OHE using Thermo vision camera by a skilled Engineer/DFCCIL.
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The Checking and compilation of hotspot of OHE using Thermo vision camera by a skilled Engineer/DFCCIL shall be carried out in line with Maintenance Manual/Approved drawings/Specifications of DFCCILs with its latest correction slips if any.

The job shall cover checking and compilation of the images of terminal connectors, jumpers, splices and other joints if any in OHE & bus bar, Connectors, SP, and SSP & TSS. The Thermo vision camera checking of TSS will be treated as checking of 1 TKM for measurement. Similarly, SP/SSP will be treated as 0.25TKM for measurement. The measurement shall preferably be done during the period when electric trains are working in the section. The entire section including TSS to be covered once in 6 months.

Sch.1 Sl.No.20	Stenciling/Painting of rail level, implantation, MRL, ERL & location number etc. SED Parameters
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The job shall cover checking the clearance of all over line structures before taking the stenciling work during the maintenance period of subject agreement and compare the values with the as erected drawings, if any difference are found shall inform to the DFCCIL official to take corrective action as required. It is to be done annually.

The job shall cover painting of OHE mast with Aluminum paint up to a height of 1 meter from the muff. Also the job shall cover painting of SED parameters on OHE mast / Structures such as ERL, MRL, implantation, symbols of emergency sockets etc., with black lettering on yellow back ground including erasing of old details by covering aluminum painting as advised by site supervisor if required. The job shall cover all costs toward required various sizes of paint brushes and labour etc.

The job shall also cover painting of Location number on OHE mast / Structures such as KM number & Location number etc., with black lettering on yellow back ground including erasing of old details by covering aluminum painting as advised by site supervisor if required. The job shall cover all costs toward required various sizes of paint brushes and

labour etc. The paint and other consumables shall be arranged by Contractor.

Sch.1 SI.No.21	Painting of counter weight of ATD & guy rod assembly including marking of Y value.
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The price shall cover painting of Counter Weight of ATD & Guy Rod Assembly including marking of „Y“ Value for 10°C, 15°C, 20°C, 25°C, 30°C, 35°C, 40°C & 45°C in the ATD anchored MAST/Structure. Painting shall be with 2 coats of aluminum paint including stenciling of location number on counter weights as directed by DFCCIL's Engineer/DFCCIL-in charge of work. ISI mark good quality paint shall be used and the same to be supplied by the Contractor.

Joint maintenance report shall be filled in the format in Maintenance performa, which to be signed by DFCCIL and contract representatives.

Sch.1 SI.No.22	Checking and maintenance of Feeder Termination & AEC Termination
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The job shall cover checking and maintenance of a 25KV feeder/return conductor (along or across track) annually made of a single all aluminum bare, hard drawn conductors 288 sq. mm ACSR zebra conductor. Job shall also cover checking of all components including insulators and replacement of insulators (covered separately in the schedule) and ferrule if required. The job shall also cover checking and maintenance all materials required for the termination of all aluminum 25KV feeder including Guy rod assembly, appropriate mast anchor fittings, adjuster, strain clamp and end fitting and splices as required. The job shall also cover cleaning the muffing of anchor block of Guy Rod.

The price shall include checking and maintenance of feeder to feeder and AEC to AEC jumper at termination or any other location. The price shall also include cleaning of the Post Insulator at feeder termination.

The price shall include replacement of any fitting in case found defective, rusty, cracked etc. the price shall include provision of deficient nut, check nut, washer, split pin etc. All material shall be supplied by DFCCIL.

Sch.1 SI. No. 23	Drilling for hole for Bond.
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The price shall cover the drilling and chamfering of holes in mast / rails with contractor's own labour and T&P complete in the supervision of Engineer/DFCCIL in charge and as per requirement of site.

The rates are calculated in the number of holes drilled in masts/rails as per requirement. The man power deputed shall leave the work spot with the permission of Engineer/DFCCIL in charge. All released materials to be handed over to DFCCIL.

Sch.1 SI. No. 24	Attending and replacing of DO Fuse at Auxiliary Transformer of 1 A/ 5A as per requirement.
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The price shall cover the attending and replacing of DO Fuse at Auxiliary Transformer of 1 A/ 5A as per requirement.

Sch.1 SI. No. 25	Maintenance of Auxiliary Transformer at Station and ALH and TH Locations
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The job shall cover checking & maintenance of AT (Quarterly) along with ACOS Panels as mentioned below,

- A. Auxiliary Transformer and ACOS Panel (Quarterly)
1. Clean externally the tank, conservator, bushings.
 2. Check oil level in conservator.
 3. Check silica-gel breather. If silica-gel is pink, replace it with new dry silica-gel and recondition the old silica-gel. Makeup oil if required.
 4. Check for proper condition and alignment of dropout fuse element and assembly.
 5. Check and record arcing horn gap settings.
 6. Checking of ACOS panel operation.
- B. Auxiliary Transformer (Half yearly)
1. Do all the test as indicated in schedule A.
 2. Measure and record insulation resistance of all windings to earth with 2.5 kV megger along with temperature of winding and ambient temperature.
 3. Test Oil samples for BDV.
 4. Check foundation and structure assembly for proper conditions and tightness.
- C. Auxiliary Transformer (Yearly)
1. Do the entire test as indicated in schedule A & B.
 2. Test oil sample for acidity.
 3. Measure and record earth resistance. Take remedial action if earth resistance is above the prescribed limits.

The Schedule of Maintenance to be followed as per DFCCIL Maintenance Manual.

Sch.1 Sl. No. 26	Checking and maintenance of 25 kV OHE feeder & AEC conductors excluding termination arrangement
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The Checking and maintenance of 25kV HIGH RISE OHE Feeder size (AAAC, 288 Sqmm) & AEC Conductors (ACSR- 93.3 sq mm) shall be carried out in line with Maintenance Manual/Approved drawings (As Build drawings)/Specifications of DFCCIL with its latest correction slips, if any.

The price shall include checking of conductors for any broken strands, twist, sulphation, corrosion or any other abnormalities and taking action for rectification in consultation with DFCCIL.

The price shall also include checking of suspension clamps, suspension fittings/ fasteners, 9-ton suspension insulators of 25 KV feeder and replacing any defective / cracked / corroded items.

The price shall include cleaning of 9- ton insulator. The slack feeder arrangement under FOB/ROB shall also be checked under this item. The clearance of 25 KV feeder with AEC or other earthed parts shall be recorded at few critical locations like FOB/ROB, AT location etc. as per directive of DFCCIL.

In case splicing of feeder wire and replacement of 9-ton insulator is required same shall be carried out for which rates shall be payable separately under item no. 04 of schedule-04 .

The price shall also include checking of mast/portal clamps with fasteners of Aerial Earth conductor and replacing any defective / cracked / corroded items.

In case splicing of AEC wire is required, same shall be carried out for which rates shall be payable separately under item no. The maintenance rates for termination arrangement shall be paid under item no 05 of schedule-04. The rates are payable on per TKM basis for completion of maintenance of feeder wire and AEC both.

Joint maintenance report shall be filled in the format in Maintenance performa, which to be signed by DFCCIL and contract representatives.

Schedule 2: Break Down Maintenance Activity

Sch.2 Sl. No. 01	OHE Break Down 2 Gangs consisting of 10 nos. of staff (1 nos. Highly skilled, 2 nos. Skilled, 3 nos. semi-skilled and 4 nos. of unskilled)
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The Contractor has to provide Gangs in two shift at Gothangam station of DFCCIL consisting of the following staff for attend the Break down /HIGH RISE OHE work on 24X7 basis as a schedule item.

Note: In case the deployed Supervisor/ other staff will take leave or leaving his headquarters, contractor in position to deploy another employee having equivalent educational & experienced as "Supervisor/other staff" for the work.

The team of ten staff (01 breakdown gang) should be available round the clock and should be ready when called any time on 24 Hours X 7 Days basis without any consideration for night hours, Sunday or any holiday. The team will be called in case of any breakdown by Executive/ Sr. Executive/In charge of IMD/ IMSD. The team shall report within 20 minutes in day and 25 minutes in night of call to the supervisor in charge of the team. The breakdown team will work under guidance of DFCCIL and assist in carrying out regular inspection by Tower Wagon. This team may be asked to attend any OHE breakdown or equipment failures. The team shall move quickly to breakdown site and make best effort to attend the breakdown in minimum possible time. Tower Wagon will be provided by DFCCIL, in case of tower Wagon is not available or engaged in other activities, the same to be carried out by emergency road vehicle. Necessary T & P and breakdown/Emergency material is to be stacked in Tower Wagon or Nominated place as per list for emergency use.

Suitable reliever: Since OHE maintenance work will be carried out 24X7 on all 365 days the contractor should arrange necessary relief to the personnel working as per the labour laws from time to time for which no additional payment shall be made by the DFCCIL. Each gang should work under the instruction and observation of DFCCIL's Engineer/DFCCIL. During currency of the contract, the performance of the contractor's staff will be monitored. If the performance of any contractor's staff is found poor, the contractor shall responsible for replacement of that particular staff within a week, on the instruction of DFCCIL/BRC. If the staff is not replaced, should be treated as absent and penalty as per special conditions of contract should be imposed.

The breakdown gang will also maintain section from KM OHE location 310/1-2 to - 331/1-2 in normal time and no additional payment will be made for items covered in schedule-1 except for Schedule-1 items no. 20,21 and 23.

Schedule 03: Emergency, Other maintenance activities & hiring of vehicle

Sch.3 Sl.No. 01	Loading, unloading of DFCCIL supplied material to places directed by Engineer/DFCCIL in-charge (i.e., From station to tower wagon, station to station etc.) (applicable for material more than 2 MT)
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Price shall cover loading and unloading activity for transportation of all DFCCIL supplied materials for execution of the work and dismantled materials to consignee's depot. Also, safe handling and shifting of DFCCIL materials during the breakdown. Price shall also cover collection of materials from store depot, loading and unloading of materials from depot to site and site to depot.

Sch.3 Sl.No. 02 to 5	Hiring of vehicle
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- a) The contractor should provide Vehicle (as detailed Schedule 03 of Tender Document) in perfect condition along with drivers to DFCCIL on hiring basis. The vehicle will be stationed at location designated by DFCCIL. The normal area of duty of the vehicle will cover the States of Gujarat, Maharashtra and Rajasthan & Other places in the country.
- b) Vehicles shall be made available for 24x7 days a week as per Contract provision . In case of servicing/ repair, or out of service, equivalent vehicle is to be arranged by the Contractor along with the driver at no additional cost. The vehicles will solely be available for DFCCIL duty. Drivers deployed by the contractor shall be skilled, well behaved, holding valid driving license and capable of undertaking minor repairs of vehicles. The vehicle should always have enough fuel for at least 200 km travel.
- c) Contractor/ driver shall have to maintain log book in approved Performa by official in charge which shall have to be filled daily and presented to DFCCIL's authorized representative for signature. (Timing and kilometer reading shall be noted every day)
- d) DFCCIL may provide open parking space but parking shall be purely at Contractor's risk.
- e) The vehicles shall strictly comply with the provisions of pollution control, statutory regulation issued by State Transport Authorities/ Central Govt./other authorities etc. from time to time. Contractor shall ensure that the vehicles must have all relevant documents like Registration Certificate/Driving license/Insurance Cover/Road Tax Receipt /Permit, Pollution certificate etc. Driver shall be able to produce the documents as and when requisitioned from him. All vehicles provided should be commercially registered with State Transport Authorities.
- f) All the Vehicle(s) shall always carry first aid box and mandatory spares vis. Tool box/Kit, Fuses, Spark plugs, fan belts, fire extinguisher, spare tyres. Vehicle provided shall be maintained in a very good working condition. All kinds of repairs/maintenance costs, charges of fuels, oil, lubricant, mobile phone charges, fee towards licenses/registration taxes, challans, salary/overtime of the driver, insurance premium etc. are responsibility of the contractor and shall be borne by the contractor all along the contract duration.
- g) Vehicle shall be used on any type of road i.e. Kachha / Pucca including along the railway track as per direction of official using the vehicle
- h) The contractor shall ensure that the Driver deployed for performing the duties shall not be in drunken or intoxicated condition. If Driver is found in drunken or intoxicated condition, he will be treated as absent from duty. Decision of DFCCIL in this respect shall be final and binding on the contractor. Further a penalty of Rs 500/- per case shall be levied on the Contractor.
- i) In case a driver is required to stay overnight at a place other than the normal headquarter of the vehicle, payment of Rs. 500/- will be paid per night per outstation duty. In case of dispute in calculation, DFCCIL's decision shall be final.
- j) Rates are inclusive of all running maintenance & repair expenses, fuel, lubricants and

any other consumables etc required from time to time, all statutory provisions, all taxes including road tax, duties, incidental charges, charges for inspection certificate, penalties etc. as imposed by CGM/DFCCIL/Vadodara. Nothing extra over and above the accepted rates shall be payable, unless otherwise specified separately in the tender document. However, toll tax, Interstate tax/ state entry tax/octroi tax, parking charges on tour will be reimbursed only after having submitted the proof of having actually paid the above taxes / charges. Distance travelled by vehicle from Contractor's garage to reporting/nominated place of duty & back will not be counted towards the payment.

Schedule 4: Foundation Item

Sch. 4 Sl. No. 01	Auguring & Casting of all types of foundation (The rate includes supply of thematerial- ballast, sand, cement, mixture & reinforcement etc.)
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There are two types of foundation in DFCCIL i.e. as per RDSO design and cylindrical type foundation. The RDSO designs are generally having PCC design, however steel reinforcement are required in specific type like black cotton soil. The DFCCIL design is for cylindrical type foundation having steel reinforcement. Generally, the volume of RDSO type foundation is higher than cylindrical type foundations. There will be liberty with the contractor to cast any type of foundation with prior approval of DFCCIL. The foundation drawings/ design shall be provided by DFCCIL as per approved SED/CSD. In case the contractor opts for cylindrical foundation, the required steel for the reinforcement shall be supplied by the contractor. The RDSO type foundation shall be cast in M-15 grade and the cylindrical type foundation shall be cast in M-20 grade. The price shall cover the supply of the cement, sand, water, ballast, steel reinforcement, mixing, curing, arrangement of scroll, grouting and muffing the mast with required shuttering as per drawing and site requirement. The foundation concrete material, cement, water and steel shall confirm to relevant IS i.e. IS 456 and 383.

The Joint Report of work shall be signed by DFCCIL and contract representative for releasing payment.

Schedule -05 Additional OHE work

Sch. 5 Sl. No. 01	Supply and fixing of Splicing Clamp Assembly For 150 sq. mm Contact Wire (Crocodile Type)
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The price shall cover for Supply and fixing of Splicing Clamp Assembly for 150 sq. mm Contact Wire (Crocodile Type) including all accessories.

Sch. 5 Sl. No. 02	Supply and fixing Catenary Wire Splice 125 Sq. mm.
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The price shall cover for Supply and fixing Catenary Wire Splice 125 Sq. mm including all accessories.

Sch. 5 Sl. No. 03	Supply and fixing Feeder wire splice for 288 sq. mm AAAC conductor.
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The price shall cover for Supply and fixing Feeder wire splice for 288 sq. mm AAAC conductor including all accessories.

Sch. 5 Sl. No. 04	Supply and fixing Aerial Earth wire splice for 93.3 sq. mm ACSR conductor.
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The price shall cover for Supply and fixing Aerial Earth wire splice for 181.6 sq. mm ACSR conductor including all accessories.

Sch. 5 Sl. No. 05	Supply and fixing of Splicing Clamp Assembly for 107 sq. mm Contact Wire (Crocodile Type).
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The price shall cover for Supply and fixing of Splicing Clamp Assembly for 107 sq. mm Contact Wire (Crocodile Type) including all accessories.

Sch. 5 Sl. No. 06	Supply and fixing Catenary Wire Splice 65 Sq. mm.
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The price shall cover for Supply and fixing Catenary Wire Splice 65 Sq. mm. including all accessories.

Sch. 5 Sl. No. 7	Supply of material for single earth electrode.
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The price shall cover for Supply of material for single earth electrode as per DFCCIL drawing. The price shall cover supply of an earth electrode in all types of soil except hard soil/soft rock. 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.

Sch. 5 Sl. No. 8	Preparation of design and drawing for overhead equipment and verification as per plan.
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The price shall cover for Preparation of design and drawing for overhead equipment and verification as per plan for DFCCIL requirement. The price shall cover preparation and submission of overhead equipment plans indicating location of structures in stages, and preparation of all drawings and designs relevant to the tendered works and required to be finalized by the Contractor in the format approved by Engineer/DFCCIL along with 3 paper copies of the drawings for approval. The price shall include the following:

- (i) Preparation and submission of pegging plans layout plans incorporating span, height, chainage, curves, gradients, type of masts/portals, foundations, ATD locations, stagger, location of cut-in-insulators, signal locations etc., making minor modifications with the approval of the Employer/Engineer/DFCCIL to the layout of the structures and overhead equipment, if necessary.
- (ii) Preparation and submission of cross section drawings and structure erection drawings for each structure locations

- (iii) Choice of type and size of foundations to suit soil and loading conditions
- (iv) Preparation and submission of long section drawings of overhead equipment where such drawings are required including detailed study of over line structures such as foot over bridges, road over bridges, track over bridges, overhead Pipelines etc. for maintaining the specified height of contact wire and requisite clearances.
- (v) Preparation and submission of other designs and drawings including drawings of small parts steel work (other than those for which RDSO standard drawings are available) and detailed designs for LT Supply Transformer stations, design and drawings of OHE structures for bridges etc.
- (vi) Preparation and Supply of Bonding Plan drawings and buried rail earthing drawings.
- (vii) Design, preparation and submission of switching station drawings including survey, investigation of soil bearing pressure from National Test House or at any other laboratory approved by the Engineer/DFCCIL-in-charge, preparation of general arrangement drawings, detailed layout of equipment, bus-bar connections and insulators, layout of earthing system and earth connections, cable run layout, detailed designs and drawings for steel work and structural support, excluding the ones for which supply is made by the Employer/Engineer/DFCCIL, suitable concrete plinths for equipment and drawings for equipment's, components, fitting and materials supplied by the Contractor. The price shall include supply of six number of copies of all drawings, including completion drawings.
- (viii) Preparation, supply and fixing of Sectioning / Schematic / TSWR diagram boards for stations / Cabins / SWS / RCC/ Section Controller and 25 KV AC Traction Station Working Rule instructions including supply & fixing of shock treatment chart etc as directed and approved by Engineer/DFCCIL.
- (ix) Supply of soft copy (in Auto Cad drg. format) and requisite eight (8) number of hard copies, one copy on non-tearable tracing (Engineering matte film of 75 micron or more thickness) of all drawings including completion/approved/as erected drawings for OHE and Switching stations. In addition, one copy in RTF to be given of all completion/As erected drawings. Soft copy to be given in DVD(R).

Sch. 5 Sl. No. 9	Supply of spares, tools & equipments required during maintenance & break downs for a period of 2 years- as per appendix-A
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The price shall cover for Supply of spares, tools & equipments required during maintenance & break downs as per appendix-A. The items are to be procured only after Prior approval from DFCCIL

4.0 Detailed scope of work: -

4.1 2x25kV HIGH RISE OHE installations maintenance schedule: -

4.1.2 Checking & Maintenance of Modular/ IR Modified Cantilever assembly:

- i. Check rail level and setting distance against markings on the masts and entries in the Register. Variation above 30mm in setting distance and 20mm in rail level should be notified for correction. Variations, even within the above limits, should not be permitted if the Schedule of Dimensions are infringed.
- ii. Check all tightness of bolts, nuts and check nuts and pins.
- iii. Check all galvanized pipes and fittings. Where galvanization is found to be chipped off, the fitting of pipe should be replaced. Minor chippings may be repaired using 'cold galvanizing paint'.
- iv. Examine register arm and all hooks and fittings for cracks. Check for cracks on steady arm tube also.
- v. Clean all insulators and carefully check as per approved drawing.
- vi. Check and adjust heights and staggers on the basis of setting distance and rail level marked. Close coordination with track works is required for keeping the permanent way at the correct location.
- vii. Clean insulators and replace defective insulators as per approved maintenance plan.
- viii. Check staggers carefully on Tangent and Curved lines.
- ix. Check and ensure exact Encumbrance and steady clearance as per site.
- x. Checking of RRA clamps and contact wire at double cantilevers.
- xi. Ensure that the drains holes in tube are free and not clogged.
- xii. Different type Cantilever arrangement for Boisar ROB shall be maintained as per manufacturer guidelines.
- xiii. Different type Cantilever arrangement for Tramway type OHE shall be maintained as per manufacturer guidelines.
- xiv. Miscellaneous, if any.

4.1.3 Checking & Maintenance of 25kV OHE Conductors:

- i. Check carefully condition of contact and catenary wires, particularly for kinks and twists in contact wire and broken strands of catenary wire. Any stranded conductor (catenary wire etc.) should be spliced if any strand is broken.
- ii. Check condition of PG clamps and jumpers after opening the

- clamps and tighten properly.
- iii. Check wear of contact wire at following hard spots points by measuring and keeping a record of contact wire thickness periodically.
- Support
 - point at
 - curves
 - Section
 - insulators
 - Splices
 - Turn Outs
 - Central mast of 2-span un-insulated overlaps of unregulated OHE
 - At approaches to tunnels and
 - over-line structures
 - where smoke pollution is pronounced
- iv. Ensure smooth passage of pantograph.
- v. Recording of contact wire height and staggers, and adjust to be done if required.
- vi. Following Checks to be carried out for Droppers:
- Check droppers/current carrying droppers
 - **Check current carrying droppers for any damage like strand cutting, wear of fittings, loose fitting and if required replace dropper & tighten of bolts with required torque wherever required.**
 - Availability of split pin & U pin in contact clip.
 - Make droppers vertical.
 - Worn out dropper should be changed.

4.1.4 Checking & Maintenance of all types of 25kV OHE Jumpers:

- i. Check OHE Jumpers for any damage like strand cutting, wear of fittings, loose fitting and if required replace Jumper & tighten of bolts with required torque wherever required.
- ii. Adjustment of Jumper wires components including PG clamp on the OHE.
- iii. The clamps should be checked for signs of overheating.
- iv. Replacement of any jumper assembly complete if required.

4.1.5 Checking & Maintenance of Overlaps (IOL/UIOL)

- i. Check height and stagger of OHE in the overlap section.
- ii. Check whether the normal minimum clearance of 500mm is available between the two OHEs in an insulated overlap and 200 mm in an un-insulated overlap.
- iii. Check whether the lifting of out-of-run OHE is correct.
- iv. Check that parallel running of contact wires in the overlap for a minimum 2m in the panto sweep region.
- v. Check for the spark free condition on OHE in sweeping zone of IOL/UIOL.

4.1.6 Checking & Maintenance of Anti creep arrangement:

- i. Check the tightness of double suspension clamps U bolts.
- ii. Check the healthiness of double suspension clamps.
- iii. Ensure availability of saddle plate in suspension clamp.
- iv. Check the tightness of PG clamp
- v. Check the condition of jumper
- vi. Check the condition of ending clamp at both ACA

4.1.7 Checking & Maintenance of 25kV Isolator (SP/DP) including earthing heel arrangement if any

- i. Check number plates for cleanliness and security.
- ii. Check correctness of operation, alignment of contacts and arcing horns.
- iii. Check earth continuity where applicable.
- iv. Lubricate moving parts and locks.
- v. Check interlocks where ever provided.
- vi. Check that the distance between male and female contacts in open position is 380 mm to 500 mm depending upon the type of isolator.
- vii. Checking & clean all insulators (Pedestal & Tie rod).
- viii. Wherever Earthing Heels are available with Isolator, ensure the smooth operation of its blade and clearance (minimum 320 mm) in Isolator closed condition.

4.1.8 Checking & Maintenance of 25kV OHE on a Turnout/ crossover:

- i. With HIGH RISE OHE Inspection Car running on main line check up if pantograph glides smoothly under the loop line HIGH RISE OHE.
- ii. With HIGH RISE OHE Inspection Car running on loop line check up if pantograph glides smoothly under the main line HIGH RISE OHE.
- iii. Check stagger of the HIGH RISE OHEs at each turn outs. (It shall not normally exceed 300mm).
- iv. At obligatory mast vertical gap between main line and turn out contact wire is to be maintained between 50 to 60mm.
- v. At 5m distance from obligatory mast, gap is to be maintained at 50 mm.
- vi. At 10m distance from obligatory mast, gap is to be maintained between 40mm to 50mm.
- vii. Track separation is to be kept between 290mm to 550mm.
- viii. Span length of turnout location should be reduced during increasing track separation.
- ix. From main line to loop line "take off" may be maintained in between 720 to 750mm.
- x. Checkup cross contact bar, if any, for displacement and distortion.
- xi. Check up for hit marks, if any.
- xii. Checkup rail level and setting of the obligatory mast.
- xiii. Check up for hard spots near rigid droppers, if any.
- xiv. Miscellaneous, if any.

4.1.9 Checking & Maintenance of Section Insulator assembly

- i. Clean insulators and replace chipped or cracked insulators.
- ii. Check runners for flash-marks, hit marks and proper

- adjustment,
- iii. Check for excessive contact wire wear near anchor clamps,
- iv. Check the level of the assembly and adjust, if necessary,
- v. Tighten PG clamps of droppers and stiffeners.
- vi. Miscellaneous, if any

4.1.10 Checking & Maintenance of Auto Tensioning Device (ATD)

❖ General:

- Check for missing Balance Weights and if found missing, inform DFCCIL concerned staff for panto lower/raise caution or speed restriction for passing trains (in tension lengths involving turn outs, crossovers and overlaps).
- Check for free movement of ATD by slightly pushing up or pulling down the counterweights. If obstruction in movement of counterweights is observed and the counterweight do not come back to the position from where pushed / pulled, measure the force required to move the counterweights with the help of spring balance. If the force is more than 10 kg, then take the following action:
 - a) Check the parallelism of hex tie rod of anti-falling device and if required, set it right.
 - b) Check for bent/deformed/ missing, guide tube and deformation of eye of base counterweight and counterweight eye rod. If it is not found in order, take corrective action to remove the defects. If the equipment is completely jammed, the equipment should be dismantled and bearings should be replaced.
- Check that the compensating plate is vertical. If not, adjust as required.
- Lubricate pulleys (if required as per maintenance instructions) and other moving parts.
- Check if 20 mm wide bands in black colour are painted on the mast to indicate upper and lower limits of movement of counter weight.

❖ Auto Tensioning Device:

- i. Check visually whether drum of the regulating equipment is in alignment with the OHE. If not, then check center-to-center distance of hole of the bent arm right and bent arm left for matching each other. If the holes do not match each other, replace the defective bent arm.
- ii. Ensure that Clevis vertical bolt is not over tight so as to ensure free swiveling action of drum at different temperatures.
- iii. Check that eye & clevis is free to swivel. If not, file the back of clevis to obtain sufficient clearance between it and the edge of the anchor fitting without seriously affecting the strength of the fitting.
- iv. Check the angle spacers over hex tie rod for free movement.
- v. Check that the hex pipe of suitable length have been provided over hex tie rods as per the requirement.

❖ Stainless steel wire ropes:

- i. Check thoroughly the condition of stainless steel wire rope through magnifying glass, for loose wires/strands, broken wires/strands, rusting, pitting/corrosion and bird caging. If any of these defects is observed, the wire rope should be replaced immediately with new lubricated wire rope.
- ii. Lubricate the wire ropes at least once in a year with "BALMEROL ROPELUBE 1000 or as per specification".

❖ **ATD & wire rope combined**

- i. Check that the stainless steel wire rope does not over ride each other on the helical grooves of the drum. If any overriding is observed, it should be corrected manually after releasing the tension on the regulating equipment.
- ii. Check that the stainless steel wire rope is centrally placed over the groove of the pulleys, if not then release the tension on ATD and manually set the wire ropes centrally on the grooves.
- iii. Check for rusting / corrosion /deformation /breakage of all the components. If these are observed, then the defective components should be replaced.
- iv. Check for looseness of fasteners and if required, tighten them
- v. Check for appreciable grazing of side walls of drum/wheel disc by the wire rope carrying counter weight. If appreciable grazing of side walls of pulleys is observed, then take the following action:
 - (a) Straighten the sidewalls of drum /wheel disc by a few mild blows with wooden mallet, If found bent. If these cannot be straightened, replace the wheel disc or drum as the case may be.
 - (b) Loosen or tighten the bolt connecting the bent arms to the clevis and eye and ensure that there is no grazing.
 - (c) Check if the drum is tilted in vertical plane towards the bent arm right/left. If it is, then insert a beveled washer in between the clevis of eye & clevis and mast anchor fitting from bent arm right/left side, so that drum becomes vertical.
 - (d) Ensure that the insertion of washer between clevis & eye and arm anchor fitting for verticality of drum does not obstruct the swiveling action.
 - (e) Check for deformity of the drum/ wheel disc/pulley. If these are deformed then replace them.
 - (f) Check that the mast anchor fitting is correctly fitted, so that its eye is in horizontal plane. If not, fit it correctly, by loosening the bolts, connecting it to mast, set the anchor fitting right and tighten the bolts. If the deformation/ manufacturing defects on the mast anchor fitting are observed, it should be replaced.
- vi. Check X-Y dimensions and if required, adjust them according to adjustment charts.

4.1.11 Foot patrolling to be carried out along with schedule with one DFCCIL staff.

- 1) The object of foot-patrolling is to have visual inspection of every part of OHE (including AEC, BEC, feeder line, Earthing etc.) so that any defect and abnormalities noticed are recorded and reported to the maintenance gangs for attention.
- 2) An experienced OHE Technician (accompanied by a Assistant if deemed necessary by local conditions) should be deputed to patrol the section on foot by day, so as to cover every part of the section. If this patrolling is done thoroughly, many of the defects will be noticed at the incipient stage, before they develop into major defects.
- 3) The Technician on foot patrol should be equipped with signal flags, an emergency telephone instrument, mobile phones and essential tools required for attending to defects on the spot e.g., spanners for tightening bond connections, Bolts and nuts for bonding, small chopper for clearing small bushes and creepers over the OHE mast, spring balance for pulling

the Regulating Equipment for checking free movements etc.

- 4) The Technician on patrol duty should particularly look for the following –
- a. Chipped or damaged insulators.
 - b. Displaced fittings and droppers/current carrying droppers
 - c. Excessive sagging or hogging of contact wire
 - d. Whether compensating plate is tilted
 - e. Free movement of auto tensioning device and position of counterweight with reference to upper and lower limits of movement marked on the mast.
 - f. Presence of protective screens, caution and warning boards and Anticlimbing devices.
 - g. Structural soundness of height gauges at level crossings.
 - h. Bird nests and pieces of stray wire likely to cause short circuits and branches of trees likely to infringe the OHE.
 - i. Defective bonds and earth connections.
 - j. Oil leakage if any from AT and drop out fuse position.
 - k. Any obstructions including tree branches in the way of free movement of pantograph and trains.
 - l. Signs of heavy sparking when trains pass.
 - m. Isolators blades being fully in and for signs of sparking or overheating of isolators as also condition of locks
 - n. General condition of switching stations en-route.
 - o. Tilting of masts especially on high banks and masts with sand core foundations.
 - p. Number plates
 - q. Any other abnormal/unusual situation
 - r. Visual Checking of AEC & BEC connection with each mast and portal
 - s. Checking of 25kV negative Feeder
 - t. Oil leakage if any from AT and drop out fuse position.
 - u. checking of 25KV negative feeder.
 - v. Visual checking of AEC & BEC connections.
- 5) Major defects noticed by the Technician which endanger safety shall be reported forthwith to TPC through the nearest emergency telephone/mobile/telephone. Full details should be given to enable the TPC to decide on the course of action to be taken and if required to regulate train movements in the affected section. The Technician should himself attend to and rectify such of the minor defects (e.g. loose structure, longitudinal, cross bond and BEC connection) which can be rectified by him on the spot without special assistance. To facilitate this, he shall carry with him a few essential tools. Other minor defects should be noted by him in his diary and entered by him in a Register maintained for the purpose in the depot/sub depot. The roster of patrolling Technicians should be so arranged that they will be able to return to the depot sub-depot for submission of report as above before going off duty for the day. Where this is not convenient, the Technician must report the defects on telephone/mobile to the depot/sub-depot followed by a written report in the register on the next day. The supervisor in charge of the depot/sub-depot will carefully scrutinize the Register and take prompt action to rectify defects reported, making suitable entries in the Register.
-

- 6) Testing of Emergency Telephone Sockets: During patrol duty, the Technician will speak to TPC from every emergency telephone socket in route. Such calls from patrolling Technicians should be recorded in a Register by the TPC indicating the date, time and serial number/location of the socket tested. Defective sockets should be reported promptly to the S&T Department for rectification.
- 7) Technician shall also check that safety guards provided under the feeders are properly earthed, the clearances are adequate and caution notice boards are in position.
- 8) A proforma for Foot Patrol Report is given at Perfoma V-D-3.
- 9) Various special drives as and when issued by DFCCIL or Railway board are also to be inspected and checked for deficiency as advised by depot in charge.

4.1.12 Checking & maintenance of all type of bonds including cleaning of muffs at OHE mast:

- i. Check all bonds thoroughly. Defective bonds must be rectified and missing bonds provided.
- ii. Check and tighten the connection of BEC & AEC with mast/structure.
- iii. The cross bonding of the UP BEC –UP Mast/Portal-UP Traction Rail-DN Traction Rail-DN mast/Portal –DN BEC should be done by 50X6 mm MS/GS flat at every 450 mtr.
- iv. Inspect earths and record earth resistance. Earths having resistance of over 10 ohms should be attended to
- v. Check provision of PVC insulating sleeve over the portion of bond passing under the tract circuited rail of length 350mm.
- vi. Cleaning of area of around muff of HIGH RISE OHE/portal by removing the vegetation and condition of structure muff are to be checked.

4.1.13 Removal of & Re erection of bonds of various type during track machine working or Erection of missing/new bonds (Paint etc.):

- i. Provide the temporary earth connection before release of the bonds.
- ii. Carefully removal all the bonds for track machine working. So, same can be released without damage & shall be reused.
- iii. After completion of track machine working, re-erect all the bonds.

4.1.14 Checking & Maintenance of leaning of OHE mast till a new mast erected :

- i. Masts which appear to be out-of-plumb should be checked with a plumb bob. Since the normal height of the contact wire is 7.54m above rail level, the extent of deflection of the masts at this height would be measured by conventional method and If the mast is out-of-plumb, by more than 3cm upto 5cm, it should be kept under watch after making sure that there is enough earthwork all-round. Further, following or any other suitable procedure to adopted to restore the leaned mast.
 - a. Use the Tirfor etc. & make the OHE mast vertical with the allowance of reverse deflection as required.
 - b. Packing and ramming with pieces of stone to prevent OHE mast from leaning

- c. A temporary structure or guy as convenient / as per railway requirement to be provided and remove the Tirfor etc.
- d. During patrolling and inspection, make a particular check time to time of the condition of earthwork around foundations of masts on embankments. If the earthwork has been or is likely to be eroded away, same shall be strengthened.
- ii. To eliminate excess/abnormal leaning mast suitable foundation to be cast and new mast to be provided.(which is covered separately in the other schedule)

4.1.15 Checking & Maintenance of PTFE type neutral section:

- i. SNS maintenance schedule is followed based on the OEM recommendations mainly to maintain profile of runners, insulating rod and to rotate or replace insulating rod when permissible wear is reached.
- ii. The essential points to be checked during periodical maintenance are as under:
 - a. PTFE in Arthur Flury make SNS /Rain shed in Galland make SNS.
 - b. Electrical erosion of PTFE coating
 - c. State of cleanliness of insulators.
 - d. Burning of arcing horns
 - e. Pantograph hit marks on the underside of Runners, PTFE insulator and end fittings of the contact wire insulators to ascertain need for adjustment of SNS.
 - f. Wear of Runner and PTFE Insulator rod (in AF make SNS)/Shoe (in Galland make SNS) , if wear is 2 mm or more than 2 mm then the Runner/Insulator Rod should be replaced.
 - g. Insulation resistance.
- iii. Cleaning of SNS insulator: Preferably cleaning of SNS insulator shall be done quarterly for normal/non- polluting section. For polluted section cleaning shall be done monthly. In addition, visual check or under power block, cleaning of insulator should be done if locomotive is passing with VCB ON condition.
- iii. Adjustment of SNS during change of track layout (gradient, curve, implantation, height etc.) should be ensured.

4.1.16 Checking & Maintenance of Portal boom, drop arms and fabricated Masts free from foreign body including Bird Nests:

- ❖ Checking & Maintenance of Portal boom, drop arms and fabricated masts free from Bird Nests and removal of bird nest as identified by foot patrolling staff /during other inspection.
- ❖ Check all steel parts and remove rust, if any, from painted steelworks. Rusted portions, after cleaning must be given two coats of Zinc chromate premier followed by Aluminum paint.

4.1.17 Trimming of tree branches to maintain minimum 6 meter clearance from OHE:

- ❖ Trimming of tree branches as identified by foot patrolling staff / during other inspection / checking. No part of the tree shall be nearer than 6 meters from the nearest live conductor.

4.1.18 Checking and compilation of hotspot of OHE using Thermo vision camera by a skilled Engineer/DFCCIL.

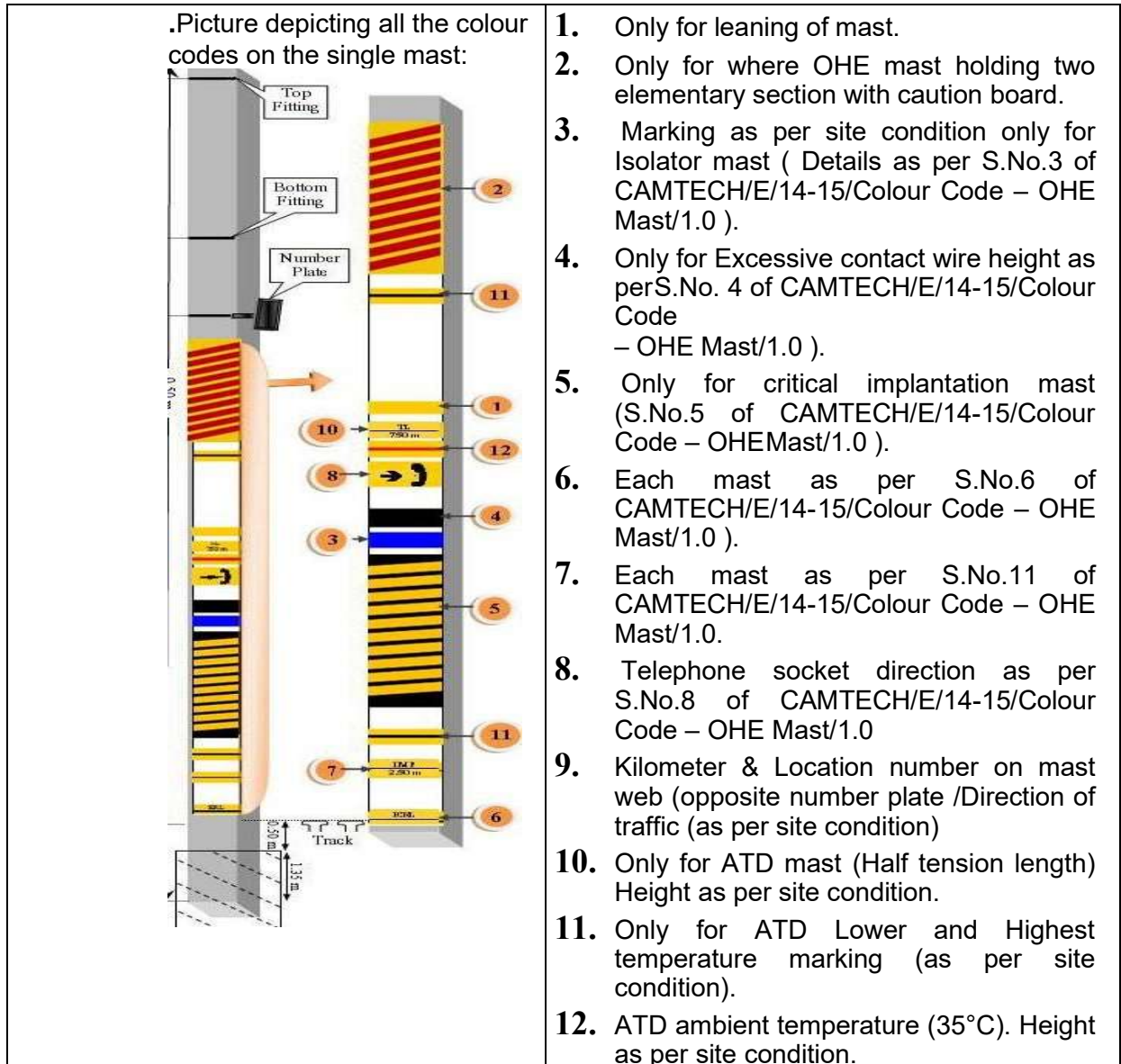
- ❖ Temperature of OHE component rises due to traffic load, loose contacts,

component under mechanical strain, excessive wear etc. Maintenance Instruction on Identification of defects on traction installation using thermo-vision camera and preventive action as per **SMI No. TI/MI/0055 Rev. 0.** Should be followed.

4.1.19 Checking and identification of spark in OHE using Current Collection test with Oliver-G by a skilled Engineer/DFCCIL

- ❖ Current collection through OLIVER-G is conducted by rear most electric locomotive of banker in ghat-section if any.
- ❖ Current collection is carried out during night time only.
- ❖ Limit of flashes in the unit of Mega pixel and the time frame for its attention will be as follows:
 - More than 100 units (High Intensity) - Attend within a week
 - Between 60 – 100 units (Medium Intensity) - Attend within a fortnight
 - 40–60 units (Low Intensity) - Attend within a month

4.1.20 Stenciling/Painting of rail level, implantation, MRL, ERL & location number etc. SED Parameters and Painting of counter weight of ATD& guy rod assembly including marking of Y value



4.1.21 Checking and maintenance of Feeder Termination & AEC Termination

- i. Check wire for frayed strands, overheating, pinching or corrosion, especially at suspension clamps and PG clamps.
- ii. Ensure that all joints are properly coated with vaseline during tightening of PG clamps.
- iii. Check tension in wire and adjust if necessary.
- iv. Other overhead wire such as bypass feeders and earth- wire should be checked. The insulator attachments should be dismantled and cleaned, overhaul and put back in position.

4.1.22 Supply and erection of OHE Retro reflecting number plate including plate fixing.

- i. Supply of OHE Retro reflecting number plate should be as per relevant RDSO standard.
- ii. Erection of OHE Retro reflecting number plate should be as per the approved drawing / standard.

4.1.23 Supply and erection of caution board.

- i. Supply of OHE Retro reflecting number plate should be as per relevant RDSO standard.
- ii. Erection of OHE Retro reflecting number plate should be as per the approved drawing / standard.

4.1.24 Drilling for hole for Bond.

- i. Drilling of holes on rails by cold forging method as per DFCCIL approved plan.
- ii. Any hole drilled in the rail for providing OHE bonds should be at the neutral axis of the rail and chamfered.
- iii. Holes to be duly chamfered before bolting or connecting installation.
- iv. Rails shall not be damaged while work.

4.1.25 Providing and replacing of DO Fuse at Auxiliary Transformer of 1 A/ 5A as per requirement.

- i. Check the condition of DO fuse barrel and fuse element.
- ii. Replace the breakage, over heated and non-standard fuse wire, if any. Note: Use fuse wire 20 SWG for 34 Amp, 22 SWG for 24 Amp.

4.1.26 Maintenance of Auxiliary Transformer at Station and ALH and TH Locations

- i. Check any sign of oil leakage, overheating. If observed, attend it.
 - ii. Clean the transformer, conservator, bushing and tank externally with clean cotton cloth.
 - iii. Check the condition of silica gel. If color is pink reactivate/replace.
 - iv. Check oil in the cup of breather. Top up the oil in cup, if required.
 - v. Check, clean & tight all connections of HT and LT bushing terminals.
-

- vi. Check & top up oil level in conservator with new filtered oil up to mark, if required.
- vii. Check & clean AT enclosure for vegetation and other materials.
- viii. Check condition of pole mounted ICDP (MCCB) switch, ACO panel and its fuses. Replace overheated lugs, fuses and tighten loose connections. Note: Use fuse wire 20 SWG for 34 Amp, 22 SWG for 24 Amp.
- ix. Check caution board and anti-climbing device for availability and proper condition.
- x. Check & tight the earth connections, if found loose.
- xi. Check flash mark on arcing horn. Attend, if flashover marks observed & check the arcing horn gap.
- xii. Check the condition of DO fuse barrel and fuse element. Replace the breakage, over heated and non-standard fuse wire, if any.
- xiii. Measure and record insulation resistance of all windings to earth with 2.5 kV megger along with temperature of winding and ambient temperature.
- xiv. Test Oil samples for BDV.
- xv. Check foundation and structure assembly for proper conditions and tightness.
- xvi. Test oil sample for acidity.
- xvii. Measure and record earth resistance. Take remedial action if earth resistance is above the prescribed limits.

4.1.27 Checking and maintenance of 25 kV OHE feeder & AEC conductors excluding termination arrangement

- i. Check 25 kV OHE feeder & AEC conductors for any damage like strand cutting, wear of fittings, loose fitting and if required replace Jumper & tighten of bolts with required torque wherever required.
- ii. Adjustment of Jumper wires components including PG clamp on the OHE.
- iii. The clamps should be checked for signs of overheating.
- iv. Checking & clean all insulators.
- v. Replacement of any jumper assembly complete if required.

4.1.28 Checking and maintenance of Cross Gantry at TSS/SP/SSP

- i. Examine wires for frayed strands, overheating, pinching or corrosion, especially at suspension clamps and PG clamps. Tighten junction sleeves.
 - ii. While tightening PG clamps ensure that all joints are properly coated with Vaseline.
 - iii. Check tension & sag in feeder wires and adjust if necessary.
 - iv. Other overhead wires such as bypass feeders and earth-wires should be inspected. The insulator attachments should be dismantled, overhauled and put back in position. The insulators should be cleaned at the same time.
-

- v. The, clearances to road and rail crossings should be checked with respect to approved plans.

4.1.29 Any Preventive OHE maintenance activity/ Schedule maintenance should be as per DFCCIL maintenance Manual.

PART V (c)

**MAINTENANCE PERFORMA
AND
T&P AND CONSUMABLE MATERIAL LIST**

INDEX

Performa no.	Subject
Performa V-D-1	FOOT PATROL DIARY
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Performa V-D-4	Tower wagon/ Cantilever Assembly Maintenance Register
Performa V-D-5	Record of Contact Wire Wear and splices
Performa V-D-6	Register for Features of overline structure
Performa V-D-7	Register of Earth Resistance Measurements
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Performa V-D-10	Register of Break-downs/ Accidents involving OHE
Performa V-D-11	Regulating Equipment
Performa V-D-12	Isolator Switches
Performa V-D-13	Turnout and Cross Overs
Performa V-D-14	Level Crossing Gates
Performa V-D-15	format for recording the observations/measurements of 5:1 ratio, winchtype

Annexure V-D-1

FOOT PATROL DIARY
 DEPOT.....
 JURISDICTION
 NAME

	ITEMS OF OBSERVATION		OBSERVATIONS	OBSERVATION
			SECTION	SECTION
			DATE	DATE
FOUNDATIONS	1.	DAMAGED OR CRACKED		
	2.	SINKING OR TILTED		
	3.	WATER COLLECTION AROUND FOUNDATION		
	4.	SIDE EARTH FILLING REQUIRED.		
	5.	TOP OF FOUNDATION NOT CLEAR.		
OHE MASTS AND PORTALS	1.	MAST DEFLECTED TOWARDS TRACK.		
	2.	MAST DEFLECTED AWAY FROM TRACK.		
		Other than those already under observation & thus painted with yellow band.		
	3.	HIT MARK OR DAMAGE TO MAST.		
	4.	NUMBER PLATE MISSING		
	5.	NUMBER PLATE DAMAGED.		
	6.	HRL/IMP NOT PAINTED.		

ANCHOR	1.	NUT, CHECKNUT OR LOCK PLATE· PIN MISSING FROM ANCHOR BOLT.		
	2.	-DO - GUY ROD.		
	3.	ANCHOR BOLT RUSTING.		
BRACKET ASSEMBLY	1.	BRACKET INSULATOR DAMAGED.		
	2.	STAY INSULATOR DAMAGED.		
	3.	9-TONNE ANCHOR INSULATOR DAMAGED.		
	4.	ANY OTHER DEFECT NOTICED.		
SECTION S INSULATOR	1.	ABNORMAL WEAR ON RUNNERS.		
	2.	CORE INSULATOR VERY DIRTY.		
	3.	CORE INSULATOR HAVING FLASH MARKS/DAMAGED.		
REGULATING EQUIPMENT	1.	'Y' DISTANCE IS ABNORMAL		
	2.	MOVEMENT OF B.W. NOT FREE.		
	3.	SS ROPE OVER-RIDING ON THE DRUM GROOVES.		
	4.	SS ROPE STRANDS FOUND CUT.		
	5.	WHETHER EQUALISING PLATE ISTILTED.		
AUX. TRAN SFOR CLS SUPP	1.	DROP OUT FUSE FOUND FALLEN.		
	2.	SOUNDNESS OF EARTH CONNECTION.		
OHE SPAN	1.	SPAN CURRENT CARRYING DROPPERS, ABNORMALLY OUT OF PLUMB.		
	2.	SPAN DROPPERS DAMAGED.		
	3.	ANY ABNORMALITY IN RESPECT OF JUMPERS.		
	4.	DAMAGE TO CATENARY STRANDS.		
	5.	CHECKNG OF PG CLAMPS		
	6.	EXCESSIVE SAGGING OR HOGGING OF CONTACT WIRE.		

ISOLATOR	1.	ISOLATOR NO. PLATE MISSING.		
	2.	ISOLATOR LOCK MISSING/DAMAGED.		
	3.	ANY SIGNS OF SPARKING/ OVERHEATING		
AEC, BEC & 25KV Negative Feeder	1.	VISUAL INSPECTION OF CONNECTION OF AEC & BEC WITH MAST AND PORTALS		
	2.	DAMAGE TO FEEDER WIRE STRAND		
	3.	DAMAGE TO AEC		
	4.	Check tension & sag in feeder wires and adjust if necessary. Checking of clearances to road and rail crossings should be checked with respect to approved plans.		
GENERAL CHECKING	1.	DANGER AND CAUTION BOARDS		
	2.	HT. GAUGES AT LEVEL X-ING.		
	3.	EMERGENCY SOCKETS FOUND DAMAGED/ OUT OF ORDER.		
	4.	EARTHING OF OLS/PLATFORM SHEDS ETC.		
	5.	BONDS FOUND DISCONNECTED/MISSING.		
	6.	PROTECTIVE SCREENS ON FOB/ROB.		
	7.	TREE BRANCHES NEAR OHE.		
	8.	BIRD NESTS AND PIECES OF STRAY WIRE.		
	9.	DEFECT IN TRANSFORMER SECONDARY NEUTRAL CONNECTION TO RAIL AT FP.		
	10.	SIGNS OF HEAVY SPARKING WHEN LOCO PASSES		
	11.	GENERAL CONDITIONS OF SWITCHING STATIONS ON ROUTE.		
	12.	MINOR DEFECTS RECTIFIED IF ANY DURING PATROLLING.		
	13.	MAJOR DEFECTS NOTICED		

Signature of Lineman Foot Patrolled

Date:

Signature of station masters/ Yard masters/ Cabin master with date and time

Checked by SSE/JE/ELC (OHE)

Annexure V-D-2

Daily report Performa of OHE maintenance

Date

1. Power Block in sub-sector/Elementary Section :

Time asked

Time received

Time

returned

Remarks

2. Staff utilized

Skilled

Semi skilled

Unskilled

3.Details of work carried out in Power block:

	Type of work	Locations	Staff/ Supervisor
3.1	Cleaning of Insulator-ST, BT & 9-T		
3.2	Section Insulator		
3.3	OHE checking and Adjustment		
3.4	Height & stagger of contact wire		
3.5	Dia of contact wire Measured		
3.6	Clearance checked at Locations		
3.7	Insulated overlaps Locations		
3.8	ATD locations		

4. General Report on OHE of section. Preventive actions suggested _____
5. Report on catenary / jumper damage in the section. Preventive actions suggested _____
6. Details of work carried out under non-power block

	Type of work	Locations	Staff/ Supervisor
6.1	Muff cleaned		
6.2	BEC/Bond checking		
6.3	Rail level & Implantation checked		
6.4	Repainting of R/L and implantation		

7. Report of foundation/muff conditions, leaning of masts. Preventive actions suggested _____
8. Report on changes in RL/implantations. Preventive actions suggested _____

Station Sup.

Signature _____

Dated Designation _____

Register for Foot Patrol Report

Section

S N	Location	Defect	Category(A or B)	Date	Notice by	Supervisor remarks			Date attended
						Name / Sign	Date	Action proposed with PDC	

Category 'A' - means defect related to safety and train operation

Category 'B' - All other excluding A

Annexure V-D-4

Tower wagon/ Cantilever Assembly Maintenance Register

KM _____

Section_ _____

S N	Location	Type of loc ation	Type of cantil evers	No.of Cantil evers	Attention				Insu. Make batch			CW		Clea rance	Conditio nof fittings	Staff / Supe rvisor	Remarks
					Date of Che ckin g	Work done	Sch/ Unsc h	Due Date.	9 T	S T	B T	H t	S t.				

Annexure V-D-5

Record of Contact Wire Wear and splices

S N	Type of location (specify if stop signal/hard spot location/tunnel/R OB/FOB/L.x gate or any other location)	Loca tion no.	At support		AT MID SPAN		Dt. Of pro visi on of CW spli ce	Obs e rvati on	No. of cate nar y stra nds out	Dt. of prov. Of cate nary splic e	St aff / S u p.	R e m ar ks
			Thic kne ss	Wear since last check	Thick ness	Wear since last check						

Register for Features of overline structure

FOB/ROB.....

Between Location.....

Station/Section.....

Line no.	Date	Span	Rail Level	Contact Wire Height at ends and mid way	Clearance		Features Present						Sup / Staff	Remarks
					EN D1	EN D2	Crossing	Pipes	Protective screen	Caution Board	Earthing	Pr. of FalseCat		
													-	

Register of Earth Resistance Measurements

Station.....

Nearest Location.....

Earth Pit No.....

Sl. No.	Date of Test	Resistance in Ohms	Over all Resistance	Initials of Supervisors	Remarks if any,
-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----

- Note - 1. Half page to be allotted for Each pit.
2. Earth test should be carried out on a dry day preferably in March/April once a year.

Annexure V-D-8

Record of current collection test

Date

Time

Done by

Train No.

From _____ To _____

Section

Location	Category			Correctiv eaction	Dt. Of correctiv eaction	Supervisor/Staff	Remarks
	Heavy	Medium	Light				

Record of Implantation & Foundation

Section _____

SN	L oc ati o n no	Date of checkin g	Founda tion type	Type ofsoil	Implantation		Step distan ce	HRL mark height above RL	Amount of leaning at CW level		Amount of leaning at 1.85 m above HRL		Rea son for lean ing	Ac tio n tak en	Supe rvi sor/S taff	Remar k	
					As per SED	Actual			To war ds track	Awa y from track	To w ar ds tr ac k	Away from track					

Note: One page in the register to be allotted for each location

Register of Break-downs/ Accidents involving OHE

1. Date of accident/break-down
2. Station
3. OHE Locations affected
4. Details of damages
5. Probable cause
6. Brief description and remedial action taken
7. Reference to detailed reports sent
8. Remarks, if any

Note :- One page in the register to be allotted for each case.

Regulating Equipment

Location no. _____ Section: _____ Elementary section _____

S l. No.	Date of Checki ng	Tensio n length m	Noted Value			Adjustm ent required		Date of Adjustme nt	Adjustment done			Tem p °C	Final value		Wheth er greas ed	Whether replacem ent of ATD donewith the overhaul ed one	Signat ur eof SSE/ JE	Remark s
			Tem p °C	X/ m m	Y m m	X/ m m	Y mm		By turn buckl e	Wire cut	X m m		Y m m					
									Catenar y	Contact t								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

(N.B. - One page to be allotted for each ATD location)

Annexure V-D-12

Isolator

Isolator Switch no.

Section/ Station:

SN	Location	Particular of isolator Switch	Elementary section connected	Date checked	Condition	Particulars of Work done, if any	Remarks
1	2	3	4	5	6	7	8

(NB - Half page to be allotted for

Annexure V-D-13

Turnout and Cross Overs

TURNOUT/CROSSOVER NO.-----

SECTION/STATION-----

S.N	Description		Std. value	Measured value			
1	Particulars of Turnout/crossover(Give the number i.e. 1:8½, 1:12 etc.)		-	-	-	-	-
2	Section		-	-	-	-	-
3	Location No.		-	-	-	-	-
4	Date Checked		-	-	-	-	-
5	Type of Arrangement - Crossed type/Overlap type		-	-	-	-	-
6	Height of Contact Wire above rail level at support at Obligatory Structure	Main Line Contact Wire(mm), (H)					
		Turnout Contact Wire (mm)	H+50 *				
7	Turnout span (m)	54 (Max)					
		Span length of turnout location reduced during increasing track separation.					
8	Height of Contact Wire in Overlapping Zone	Mainline Contact Wire(mm) (H1)					
		Turnout Contact Wire(mm)	H 1+(50-60) *				
9	Stagger of Contact Wire at Obligatory Structure	Mainline Contact wire(mm)	200 max.				
		Turnout Contact wire(mm)	300 max.				
10	Sag of section insulator of Turnout/Crossover		Zero				
11	Movement of tower wagon from mainline to turnout a) Take off		720 mm to 750 mm from centre line of pantograph				
		b) Point of take off (in m from O/S)					

12	Movement of tower wagon from turnout to mainline a) Take on		720 mm to 750mm from centre line of pantograph				
	b) Point of take on (in m from O/S)		---				
13	Stagger of section insulator at turnout/crossover		+/- 100 mm				
14	Track separation at the location of section insulator (m) (a) Runners towards the centre of turnout (b) Runners away from the centre of turnout		1.65 Min 1.45 Min				
15	Condition of ATD of turnout/mainline OHE		Free to move				
16	Length of pipe provided in hex tie rod of limiting device to bridge redundant length of hex tie rod.		As per SMI No. TI/MI/0035 Rev.1				
17	Setting distance (implantation) of obligatory structure (m)		3.0 Min				
18	Track separation at obligatory structure (mm)		290 to 550				
19	Distance of 'G' jumper from obligatory structure (m)		5.6				
20	Length of 'G' jumper. (m)		4.0				
21	Deviations from SEDs						
22	Adjustments done, if any						
23	Remarks						
24	Name of supervisor and designation						
25	Signature of Supervisor						

*** In case of overlap type arrangement.**

As per CEDE/NCR letter no. EL/TRD/NCR/Gatimaan dated 19.11.2018 following checks should also be carried out:

- (i) At obligatory mast vertical gap between main line and turnout contact wire is to be maintained between 50 to 60mm.
- (ii) At 5m distance from obligatory mast, gap is to be maintained at 50 mm.
- (iii) At 10m distance from obligatory mast, gap is to be maintained between 40mm to 50mm

Annexure V-D-14

Level Crossing Gates

S. No.	Location of level X-ing	Line	Date of Checking	Height of Contact wire	Condition of height gauge	Height of Height gauges from road level	Availability of 25 kV danger boards & Public caution boards at height gauge	Whether manned or un-manned, If manned Availability of staff warning board and electric shock treatment board at gate lodge	Remarks
1	2	3	4	5	6	7	8	9	10
Half page for each level crossing)									

Annexure V-D-15

FORMAT FOR RECORDING
THE
OBSERVATIONS/MEASUREMENTS
of 5:1 RATIO, WINCH
TYPE ATD

DATE OF INSPECTION:-----LOCATION:-----

SN	Item	Details of item	Checks	Observation	Remedial action taken	Details of replacement, if any	Previous inspection (Routine/AOH/IOH/POH) dates with record no.	Remark
1.	Drum and wheel disc	Manufacturer: Date of installation:	(i) Visual examination of wear of drum with Go, Nogo gauge & Wheel disc (ii) Visual examination of wear of bent arms on both side (iii) Grazing of side walls of drum/wheel disc with wire rope (iv) Alignment of drum with OHE (v) Gap between drum and wheel disc					

SN	Item	Details of item	Checks	Observation	Remedial action taken	Details of replacement, if any	Previous inspection (Routine/AOH/IOH/POH) dates with record no.	Remark

2.	Pulley	Manufacturer: Date of installation:	(i) Visual examination of wear of pulley, bent arms (ii) Movement of axle (iii) Grazing of side walls of pulley with wire rope (iv) Alignment of pulley block of ATD with OHE and bent arms					
3.	S. S. Wire rope	Manufacturer: Year of manufacturer: Date of installation: Specification to which procured:	(i) Condition of SS wire rope (ii) Position of SS wire rope over pulley groove (iii) Date of lubrication (iv) Measurement of X, Y dimensions as per adjustment chart of ATD (v) Status of inner and outer strands of wires (vi) Ovality of SSWR over radically moving portion of rope.					

S N	Item	Details of item	Checks	Observation	Remedial action taken	Details of replacement if any	Previous inspection (Routine/AOH/IOH/POH) dates with record no.	Remark
4.	Bearing	Bearing No.: Manufacturer: Date of installation:	(i) Condition of felt and grease seal					

5.	Clevis & Eye	Type(AI Bz or forged steel): Manufacturer:	(i) Visual examination (ii) Alignment of clevis with fixed pulley (iii) Movement of clevis & eye					
6.	Hex tie rod	Make: Date of installation:	(i) Visual examination for rusting/corrosion/ deformation/ breakage (ii) Parallelism of hex tie rod (iii) Length of hex tierod (iv) Movement of angle spacer of hex tie rod					
7.	Counter weights	Make: Date of installation:	(v) Check for missing counter weights (vi) Check deformation of eye of the base C W					

SN	Item	Details of item	Checks	Observation	Remedial action taken	Details of replacement if any	Previous inspection (Routine/AOH/IOH/POH) dates with record no.	Remark
8.	Mast anchor fitting	Manufacturer Date of installation Type	(i) Check deformation of fitting (ii) Check whether eye of fitting is in horizontal plane.					
9.	Guide Tube		(i) Check for bent/deformed /missing guide tube					
10.	Fasteners		(i) Looseness of fasteners					

PART-VI

MILESTONES AND TIME SCHEDULE

MILESTONES AND TIME SCHEDULE

1.0 Time Schedule:

1.1 Time of start and completion:

The time allowed for execution of the works is 24 (Twenty Four Months) from the date of issue of letter of acceptance from DFCCIL.

The contractor shall be expected to mobilize to the site of works and commence execution of the works within 15 days from issue of Acceptance Letter by DFCCIL or as per instruction of DFCCIL.

The contractor shall be expected to complete the whole work ordered on the contractor within 24 (Twenty-Four Months) from the date of issue of Acceptance Letter by DFCCIL.

If the contractor commits defaults in commencing execution of the works as afore stated, DFCCIL shall without prejudice to any other right to remedy, be at liberty to forfeit fully the Earnest Money Deposit and performance guarantee of the contractor.

1.2 Progress of works:

The contractor shall submit a programme of work in the form of a Bar Chart of all the activities in consistence. In case this bar chart requires to be modified, the Engineer/DFCCIL and the contractor shall agree upon a time and progress chart. The chart shall be prepared in direct relation to the time stated as 24 months for the completion of the works as the milestone targets specified below of these special conditions. It shall indicate the forecast of the dates of commencement and completion of various activities of the work and may be amended as necessary by agreements between the DFCCIL.

PART-VII(a)

TENDER ANNEXURES & FORM

Annexures /form no.	Subject
Annexure no I	Tender form
Annexure no II	Agreement for zone contract (Not Applicable for this Tender)
Annexure no III	Work order under zone contract (Not Applicable for this Tender)
Annexure no IV	Contract agreement of works
Annexure no V	Format for certificate to be submitted / uploaded by tenderer along with the tender documents
Annexure no VI	Tenderer's credentials (bid capacity) (Not Applicable for this Tender)
Annexure –VIA	(Bid security) bank guarantee bond from any scheduled commercial bank of India.
Annexure –VIB	Annual contractual turnover data for the previous 3/4 years
Annexure no VII	Proforma for time extension
ANNEXURE – VIIA	Proforma of 14 days' notice for offloading of part of contract
ANNEXURE – VIIB	Notice for part of contract work offloaded
Annexure no VIII	Certificate of fitness
Annexure no IX	Proforma of 7 days' notice for works as a whole/ in parts
Annexure no X	Proforma of 48 hrs. Notice for whole work
Annexure no XI	Proforma of termination notice
Annexure no XII	Proforma of 48 hrs. Notice
Annexure no XIII	Proforma of termination notice
Annexure no XIV	Final supplementary agreement
Annexure no XV	Agreement towards waiver under section 12(5) and section 31a (5) of arbitration and conciliation (amendment) act
Annexure no XVII	Performance Bank Guarantee
Form no.1	Schedule of prices & total prices Tender schedule
Form no. 2	Tenderer's credentials
Form no 2A	Technical eligibility criteria details
Form No.2B	Statement of works in progress for bid capacity (Not

	Applicable for this Tender)
Form-2C	Applicant's party information form
Form no. 3	ECS/ NEFT / RTGS mandate form
Form no. 4	Sample standing indemnity bond for "on account" payments
Form no.5	Pre contract integrity pact
Form No. 6	Anti-profiteering declaration to whomsoever it may concern
Form no 7	Draft memorandum of understanding (MOU) for Joint venture participation. (Not Applicable for this Tender)
Form no. 8	Draft format of joint venture agreement (Not Applicable for this Tender) (Not Applicable for this Tender)
Form no 9	Pro-forma letter of participation from each partner of joint venture (jv) (Not Applicable for this Tender)
Form no 10	Format for power of attorney for authorised signatory of joint venture (jv) partners (Not Applicable for this Tender)
Form no 11	Format for power of attorney to lead partner of joint venture (jv) (Not Applicable for this Tender)

TENDER FORM

Tender No: - DFC-BRC-EL-GN- MT / 503/156

Name of Work:- Maintenance of General Power Supply (E&M) for Station buildings- New Varediya Station, New Sanjali Station, New Gothangam Station & New Udhana Station and DFCC office area at Vadodara, IMSD, Service Buildings, Staff quarters, any other buildings, electrical assets and other associated works between Makarpura to Bhestan under CGM Unit on contract basis for a period of 24 months

To

The President of India

Acting through the Chief General Manager/ DFCCIL/Vadodara

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 _____ DFCCIL, at the rates quoted in the attached bill(s) of quantities and hereby bind myself/ourselves to complete the work in all respects within _____ months from the date of issue of letter of acceptance of the tender.

2. I/We also hereby agree to abide by the Indian DFCCIL Standard General Conditions of Contract, with all correction slips up-to-date and to carry out the work according to the Special Conditions of Contract and Specifications of materials and works as laid down by DFCCIL 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 DFCCIL 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 Labor Cooperative Society and our Registration No. is withand 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 Witnesses: _____

(1) _____

Signature of Tenderer(s)

(2) _____

Date _____

Address of the Tenderer(s)

AGREEMENT FOR ZONE CONTRACT

ANNEXURE – II

Deleted

ANNEXURE - III

WORK ORDER UNDER ZONE CONTRACT

Deleted

DFCCIL

CONTRACT AGREEMENT OF WORKS

CONTRACT AGREEMENT NO. _____ DATED-----

ARTICLES OF AGREEMENT made this _____ day of _____ 20____ between President of India acting through the DFCCIL Administration hereafter called the "DFCCIL" of the one part and _____ herein after called the "Contractor" of other part.

WHEREAS the Contractor has agreed with the DFCCIL for performance of the works _____ set forth in the Bill(s) of Quantities hereto annexed upon the Standard General Conditions of Contract, updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents and the Specifications of _____ updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents and the applicable Standard Schedule of Rates (SSOR) of _____ updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents and the Special Conditions and Special 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 the payments to be made by the Railways/DFCCIL, the Contractors will duly perform the said works in the said Bill(s) of Quantities 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 contract on or before the _____ day of _____ 20____ and will maintain the said works for a period of _____ Calendar months from the certified date of their completion and will observe, fulfill and keep all the conditions therein 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 Bill(s) of Quantities hereto annexed.

Contractor _____ (Signature) DFCCIL: Designation _____

Address _____ (For President of India)

Date _____ Date _____

Signature of **Witnesses** (to Signature of Contractor) with address:

Witnesses:

ANNEXURE-V

FORMAT FOR CERTIFICATE TO BE SUBMITTED / UPLOADED BY TENDERER ALONGWITH 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:

2. I/we the tenderer (s) am/are signing this document after carefully reading the contents.
3. I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
4. I/we hereby declare that I/we have downloaded the tender documents from Indian DFCCIL 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.
5. 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.
6. **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.**
7. **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.**
8. I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by DFCCIL 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.
9. I/we understand that if the contents of the certificate 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 Bid Security 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.

10. 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 Bid Security/Security Deposit and Performance guarantee besides any other action provided in the contract including banning of business for a period of up to five year.
11. 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.

(As per advance Correction Slip No. 1, Letter No. 2022/CE-I/CT/GCC-2022/Policy Dated-14.07.2022)

TENDERER'S CREDENTIALS (BID CAPACITY) (Not Applicable)

For tenders having advertised value more than Rs 20 crore wherein eligibility criteria includes bid capacity also, the tenderer will be qualified only if its available bid capacity is equal to or more than the total bid value of the present tender. The available bid capacity shall be calculated as under:

$$\text{Available Bid Capacity} = [A \times N \times 2] - 0.33 \times N \times B$$

Where,

A = Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender), taking into account the completed as well as works in progress.

N= Number of years prescribed for completion of work for which bids has been invited.

B = Existing commitments and balance amount of ongoing works with tenderer as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started upto the date of inviting of tender.

Note:

(a) The Tenderer(s) shall furnish the details of -

(i) Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) for calculating A, and

(ii) Existing commitments and balance amount of ongoing works with tenderer as per the prescribed proforma of DFCCIL for statement of all works in progress and also the works which are awarded to tenderer but yet not started upto the date of inviting of tender for calculating B. In case of no works in hand, a 'NIL' statement should be furnished.

The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant.

(b)

In case if a bidder is JV, the tenderer(s) must furnish the details of

(i) Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) by each member of JV for calculating A, and

(ii) Existing commitments and balance amount of ongoing works with each member of JV either in individual capacity or as a member of other JV as per the prescribed proforma of DFCCIL for statement of all works in progress and also the works which are awarded to each member of JV either in individual capacity or as a member of other JV but yet not started upto the date of inviting of tender for calculating B. In case of no works in hand, a 'NIL' statement should be furnished.

The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant.

- (c) Value of a completed work/work in progress/work awarded but yet not started for 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 bid capacity in the tender under consideration.
- (d) The arithmetic sum of individual "bid capacity" of all the members shall be taken as JV's "bid capacity".
- (e) 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**.
- (f) The available bid capacity of tenderer shall be assessed based on the details submitted by the tenderer. In case, the available bid capacity is lesser than estimated cost of work put to tender, his offer shall not be considered even if he has been found eligible in other eligibility criteria/tender requirement.

(As per Advance Correction Slip No. 1, As per Letter No. 2022/CE-I/CT/GCC-2022/Policy Dated-14.07.2022)

(Bid Security)

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).

Name of the Bank: -----

President of India,
Acting through,
Chief General Manager/DFCCIL/Vadodara,

Beneficiary: DFCCIL

Date:.....

Bank Guarantee Bond No.:

Date:-----

In consideration of the President of India acting through----- (**Designation & address of Contract Signing Authority**), 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") .

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.

AND

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 authorised 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 DFCCIL:

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 DFCCIL full amount in the sum of [**Insert required Value of Bid Security**] as above stated.
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 –

IFSC CODE	
IFSC TYPE	
BANK NAME	
BRANCH NAME	
CITY NAME	
ADDRESS	
DISTRICT	
STATE	
BG ENABLED	

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

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

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)

PROFORMA FOR TIME EXTENSION

No. _____ Dated: _____

Sub:

(i) _____ (name of work).

(ii) Acceptance _____ letter _____ no.

(iii) Understanding/Agreement _____ no.

Ref: _____ (Quote specific application of Contractor for extension to the date received)

Dear Sir,

1. The stipulated date for completion of the work mentioned above is _____. From the progress made so far and the present rate of progress, it is unlikely that the work will be completed by the above date (or 'However, the work was not completed on this date').
2. Expecting that you may be able to complete the work if some more time is given, the competent authority, although not bound to do so, hereby extends the time for completion from _____ to _____.
3. Please note that an amount equal to the liquidated damages for delay in the completion of the work after the expiry of _____ (give here the stipulated date for completion with/without any liquidated damage fixed earlier) will be recovered from you as mentioned in Clause 17B of the Standard General Conditions of Contract for the extended period, notwithstanding the grant of this extension. You may proceed with the work accordingly.
4. The above extension of the completion date will also be subject to the further condition that no increase in rates on any account will be payable to you.
5. Please intimate within a week of the receipt of this letter your acceptance of the extension of the conditions stated above.
6. Please note that in the event of your declining to accept the extension on the above said conditions or in the event of your failure after accepting or acting upto this extension to complete the work by _____ (here mention the extended date), further action will be taken in terms of Clause 62 of the Standard General Conditions of Contract.

Yours faithfully

For and on behalf of the President of India

ANNEXURE – VIIA

PROFORMA OF 14 DAYS NOTICE FOR OFFLOADING OF PART OF CONTRACT WORK _____ DFCCIL

(Without Prejudice)

To

M/s _____

Dear Sir,

Contract _____

Agreement _____

No. _____

In connection with _____

In spite of repeated instructions to you by the subordinate offices as well as by this office through various letters of even no. _____, dated _____; you have failed to show adequate progress of work so as to complete the contract within the original / extended date of completion of contract and part(s) of contract work are yet to be started/ still lagging behind the agreed program of work, listed as under:

(Details of part(s) of work which is delayed and can be executed independently, to be mentioned).

2. Your attention is invited to this office/Chief Engineer's office letter no. _____, dated _____ in reference to your representation, dated _____.
3. As you have failed to abide by the instructions issued to commence the work /to show adequate progress of work, you are hereby given 14 days' notice in accordance with Clause 40A of the Standard General Conditions of Contract to deploy adequate resources i.e. *(the details of resource requirement, to be mentioned)* and commence / to make good the progress for part(s) of works detailed above, failing which action as provided in Clause 40A of the Standard General Conditions of Contract shall be commenced after expiry of 14 days' notice period viz. to offload few/ all part(s) of work mentioned above to any of the existing or new contractor without your participation and at your Risk & Cost, not exceeding the value of Performance Guarantee of this contract, which may please be noted.

Kindly acknowledge receipt.

Yours faithfully

For and on behalf of the President of India

NOTICE FOR PART OF CONTRACT WORK OFFLOADED _____ DFCCIL
(Without Prejudice)

To
M/s _____

Dear Sir,
Contract _____ Agreement _____ No. _____

In connection with _____

1. Fourteen days' notice under Clause 40A of the Standard General Conditions of Contract was given to you under this office letter of even no., dated _____; but you have taken no/inadequate action to deploy adequate resources to commence the part(s) of work/show adequate progress of the part(s) of work, mentioned therein.

As you have failed to abide by the instructions issued to commence the part(s) of work/show adequate progress of the part(s) of work even at the lapse of 14 days' notice period under Clause 40A of the Standard General Conditions of Contract, few part(s) of the work under the contract have been offloaded and being executed by other mode(s) at the cost detailed below:

Or,

1. Please refer your request letter no..... dated, wherein it was requested under clause 40 A of the Standard General Conditions of Contract to offload part(s) of works at your risk & cost. The details of part(s) of the work under the contract which have been offloaded and being executed by other mode(s) at the cost detailed below:

(List of Part(s) of work offloaded, Details of mode of execution of such offloaded work alongwith approximate cost thereof to be mentioned)

2. The final measurement of work(s) already executed for above part(s) of work recorded as per clause 45 (A) or/and 45 (B) of the Standard General Conditions of Contract is enclosed herewith.

3. The Bill(s) of Quantities for Part(s) of work offloaded is enclosed herewith.

4. The additional cost in execution of offloaded work through mode(s) mentioned in para (1) above is determined as Rs. _____, over & above the cost of execution under this contract (including the PVC amount payable as per contract, as on the date of issue of this notice). This additional cost shall be recovered from your next on account bill(s) or any other dues payable to you under contract.

5. The Contract value gets reduced to Rs.....:
6. You are requested to continue with the balance work in the contract subsequent to offloading of above part(s) of work.

Kindly acknowledge receipt.

Yours faithfully

For and on behalf of the President of India

ANNEXURE – VIII

Reference Para 60.(2)
CERTIFICATE OF FITNESS

1. (a) Serial Number _____
(b) Date _____
2. Name of person examined _____
3. Father's Name: son/daughter of _____
Residing at _____
4. Sex _____
5. Residence: _____

6. Physical fitness
7. Identification marks _____
8. Date of birth, if available, and/or certified age _____

I certify that I have personally examined (name) _____ who is desirous of being employed in a factory or on a work requiring manual labour and that his/her age as nearly as can be ascertained from my examination, is _____ years.

I certify that he/she is fit for employment in a factory or on a work requiring manual labour as an adult/child.

9. Reasons for :
 - (a) Refusal to grant certificate, or _____
 - (b) Revoking the certificate _____

Signature or left hand

Thumb impression of the person examined.

Signature of Certifying Surgeon

Note: In case of physical disability, the exact details and cause of the physical disability should be clearly stated.

ANNEXURE – IX

**PROFORMA OF 7 DAYS NOTICE FOR WORKS AS A WHOLE/ IN PARTS
(DETAILS OF PART OF WORK TO BE MENTIONED)_____ DFCCIL**

(Without Prejudice)

To

M/s _____

Dear Sir,

Contract Agreement No. _____

In connection with _____

1. In spite of repeated instructions to you by the subordinate offices as well as by this office through various letters of even no. _____, dated _____; you have failed to start work/show adequate progress and/or submit detailed programme for completing the work/ part of work (details of part of work to be mentioned).
2. Your attention is invited to this office/Chief Engineer's office letter no. _____, dated _____ in reference to your representation, dated _____.
3. As you have failed to abide by the instructions issued to commence the work /to show adequate progress of work you are hereby given 7 days' notice in accordance with Clause 62 of the Standard General Conditions of Contract to commence works / to make good the progress, failing which further action as provided in Clause 62 of the Standard General Conditions of Contract viz. to terminate your Contract and complete the balance work without your participation will be taken.

Kindly acknowledge receipt.

Yours faithfully

For and on behalf of the President of India

ANNEXURE – X

Reference Para 62(1)

Registered Acknowledgement Due

PROFORMA OF 48 HRS. NOTICE FOR WHOLE WORK _____ DFCCIL

(Without Prejudice)

To

M/s _____

Dear Sir,

Contract Agreement No. _____

In connection with _____

1. Seven days' notice under Clause 62 of the Standard General Conditions of Contract 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.
2. You are hereby given 48 hours' notice in terms of Clause 62 of the Standard General Conditions of Contract to commence works / to make good the progress of works, failing which and on expiry of this period your above contract will be rescinded and the work under this contract will be carried out independently without your participation and your Security Deposit shall be forfeited and Performance Guarantee shall also be encashed and any other consequences which may please be noted.

Kindly acknowledge receipt.

Yours faithfully

For and on behalf of the President of India

ANNEXURE – XI

Reference Para 62.(1)

Registered Acknowledgement Due

PROFORMA OF TERMINATION NOTICE _____ DFCCIL

(Without Prejudice)

No. _____ Dated _____

To

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 contract 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.

Kindly acknowledge receipt.

Yours faithfully

For and on behalf of the President of India

ANNEXURE – XII

Reference Para 62.(1)

Registered Acknowledgement Due

PROFORMA OF 48 HRS. NOTICE FOR PART OF THE WORK.....(DETAILS OF PART OF WORK TO BE MENTIONED)_____ DFCCIL

(Without Prejudice)

To

M/s _____

Dear Sir,

Contract Agreement No. _____

In connection with _____

1. Seven days' notice under Clause 62 of the Standard General Conditions of Contract 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 part of work.....(details of part to be mentioned).
2. You are hereby given 48 hours' notice in terms of Clause 62 of the Standard General Conditions of Contract to commence works / to make good the progress of works, failing which and on expiry of this period your above part of work.....(Details of part to be mentioned) in contract will be rescinded and the work will be carried out independently without your participation.
3. Your full Performance Guarantee for the contract shall be forfeited and you shall not be issued any completion certificate for the contract. However, no additional Performance Guarantee shall be required for balance of work being executed through the part terminated contract.
4. The contract value of part terminated contract shall stands reduced to

Kindly acknowledge receipt.

Yours faithfully

For and on behalf of the President of India

ANNEXURE – XIII

Reference Para 62.(1)

Registered Acknowledgement Due

**PROFORMA OF TERMINATION NOTICE FOR PART OF THE WORK.....
(DETAILS OF PART OF WORK TO BE MENTIONED)_____ DFCCIL**

(Without Prejudice)

No. _____

Dated _____

To

M/s _____

Dear Sir,

Contract Agreement No. _____

In connection with _____

1. 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 part of work.....(details of part to be mentioned).
2. Your above part of work in contract(details of part to be mentioned) stands rescinded in terms of Clause 62 of the Standard General Conditions of Contract and the same 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
3. Your full Performance Guarantee for the contract shall be forfeited and you shall not be issued any completion certificate for the contract. However, no additional Performance Guarantee shall be required for balance of work being executed through the part terminated contract.
4. The contract value of part terminated contract stands reduced to

Kindly acknowledge receipt.

Yours faithfully

For and on behalf of the President of India

ANNEXURE – XIV

Reference Para 48.(3)

FINAL SUPPLEMENTARY AGREEMENT

1. Articles of agreement made this day _____ in the year _____ between the President of India, acting through the _____ DFCCIL Administration having his office at _____ herein after called the DFCCIL of the one part and _____ of the second part.
2. Whereas the party hereto of the second part executed an agreement with the party hereto of the first part being agreement Number _____ dated ____ for the performance _____ herein after called the 'Principal Agreement'.
3. And whereas it was agreed by and between the parties hereto that the works would be completed by the party hereto of the second part on _____ date last extended and whereas the party hereto of the second part has executed the work to the entire satisfaction of the party hereto of the first part.
4. And whereas the party hereto of the first part already made payment to the party hereto of the second part diverse sums from time to time aggregating to ₹ _____ including the Final Bill bearing voucher No. _____ dated _____ of value _____ duly adjusted as per price variation clause, if applicable (the receipt of which is hereby acknowledged by the party hereto of the second part in full and final settlement of all his /its claims under the principal agreement.

And whereas the party hereto of the second part have received sum of ₹ _____ through the Final Bill bearing voucher No. _____ dated _____ duly adjusted as per price variation clause (PVC), if applicable (the receipt of which is hereby acknowledged by the party thereto of the second part) from the party hereto of the first part in full and final settlement of all his/its disputed claims under principal agreement.

Now, it is hereby agreed by and between the parties in the consideration of sums already paid by the party hereto of the first part to the party hereto of the second part against all outstanding dues and claims for all works done under the aforesaid principal agreement excluding the Security Deposit, the party hereto of the second part have no further dues of claims against the party hereto of the first part under the said Principal Agreement. It is further agreed by and between the parties that the party hereto of the second part has accepted the said sums mentioned above in full and final satisfaction of all its dues and claims under the said Principal Agreement.

(Applicable in case Final Supplementary Agreement is signed after release of Final Payment)

Or

And whereas the party hereto of the first part already made payment to the party hereto of the second part diverse sums from time to time aggregating to ₹ _____ through various On Account Bills (the receipt of which is hereby acknowledged by the party hereto of the second part).

And whereas the party hereto of the second part have received sum of ₹ _____ through various On Account Bills (the receipt of which is hereby acknowledged by the party thereto of the second part) from the party hereto of the first part and party hereto of the second part have accepted final measurements recorded on Page No..... to Page No.... of Measurement Book No.....and corresponding Final Bill duly adjusted as per price variation clause (PVC), if applicable, for full and final settlement of all his/its disputed claims under principal agreement.

Now, it is hereby agreed by and between the parties in the consideration of sums already paid through various On Account Bills and sums to be paid through Final Bill duly adjusted as per price variation clause (PVC), if applicable, based on accepted final measurements including the Security Deposit by the party hereto of the first part to the party hereto of the second part against all outstanding dues and claims for all works done under the aforesaid principal agreement, the party hereto of the second part have no further dues of claims against the party hereto of the first part under the said Principal Agreement.

(Applicable in case Final Supplementary Agreement is signed before release of Final Payment)

5. It is further agreed and understood by and between the parties that the arbitration clause contained in the said principal agreement shall cease to have any effect and/or shall be deemed to be non-existent for all purposes.

Signature of the Contractor/s

for and on behalf of the President of India

Witnesses _____

ADDRESS: _____

Agreement towards Waiver under Section 12(5) and Section 31A (5) of Arbitration and Conciliation (Amendment) Act

I/we..... (Name of agency/Contractor) with reference to agreement no..... raise disputes as to the construction and operation of this contract, or the respective rights and liabilities, withholding of certificate and demand arbitration in respect of following claims :

Brief of claim:

- (i) Claim 1- Detailed at Annexure-
- (ii) Claim 2 –
- (iii) Claim 3 –

I/we..... (post of Engineer) with reference to agreement no..... hereby raise disputes as to the construction and operation of this contract, or the respective rights and liabilities, withholding of certificate and demand arbitration in respect of following claims:

I/we.....do/do not agree to waive off applicability of section 12(5) of Arbitration and Conciliation (Amendment) Act.

Signature of Claimant _____ Signature of Respondent _____

Agreement under Section 31(5)

zzl/we..... (Name of claimant) with reference to agreement no..... hereby waive off the applicability of sub section 31-A (2) to 31-A (4) of the Arbitration and Conciliation (Amendment) Act. We further agree that the cost of arbitration will be shared by the parties as per Clause 64(6) of the Standard General Conditions of Contract.

Signature of Claimant _____ Signature of Respondent _____

*Strike out whichever not applicable.

Certification by Arbitrators appointed under Clause 63 & 64 of Indian Railways General Conditions of Contract

1. Name:
2. Contact Details:
3. Prior experience (Including Experience with Arbitrations):
4. **I do not have more than ten on-going Arbitration cases with me.**
5. I hereby certify that I have retired from Railways w.e.f. _____ and empanelled as DFCCIL Arbitrator as per 'The Arbitration and Conciliation Act- 1996'.
6. I have no any past or present relationship in relation to the subject matter in dispute, whether financial, business, professional or other kind.
Or
I have past or present relationship in relation to the subject matter in dispute, whether financial, business, professional or other kind. The list of such interests is as under:
7. I have no any past or present relationship with or interest in any of the parties whether financial, business, professional or other kind, which is likely to give rise to justifiable doubts as to my independence or impartiality in terms of The Arbitration and Conciliation Act-1996.
Or
I have past or present relationship with or interest in any of the parties whether financial, business, professional or other kind, which is likely to give rise to justifiable doubts as to my independence or impartiality in terms of The Arbitration and Conciliation Act-1996. The details of such relationship or interests are as under:
8. There are no concurrent Circumstances which are likely to affect my ability to devote sufficient time to the arbitration and in particular to finish the entire arbitration within twelve months.
Or
There are Circumstances which are likely to affect my ability to devote sufficient time to the arbitration and in particular to finish the entire arbitration within twelve months. The list of such circumstances is as under:

Format of Bank Guarantee for Performance Security

Bank Guarantee No. : Dated :

To,

Dedicated Freight Corridor Corporation of India Limited, Metro Station Building
Complex 5th Floor, Pragati Maidan, New Delhi

Acting through Chief General Manager Dedicated Freight Corridor Corporation of India
Ltd.4th Floor , Block A, Narmada Nehar Bhavan, Chhani Jakat naka, Vadodara390024,
Gujarat.

Reference: - Contract No. -----, Awarded on -----

This deed of guarantee made this day of _____ Between _____ (Name of Bank) having registered office at _____ (hereinafter referred to as "Bank") of the one part, and Dedicated Freight Corridor Corporation of India Limited (hereinafter called the "Client") of the other part.

Whereas Dedicated Freight Corridor Corporation of India Limited has awarded the contract no. _____ for _____ (hereinafter called "the Contract") to _____ (Name of the Firm/ Consultant) having its registered office at _____ (hereinafter called the Firm/ Consultant).

AND WHEREAS the Firm/ Consultant is bound by the said Contract to submit to the Client an irrevocable performance security guarantee bond for a total amount of Rs. _____ (Rupees Amount in words).

Now, we the undersigned (name of the Bank official), of the Bank being fully authorized to sign and to incur obligations for and on behalf of the Bank hereby declare that the said Bank will guarantee the Employer the full amount of Rs.-----
--(Rs. In words) as stated above.

After the Contractor has signed the aforesaid contract with the Employer, the Bank further agrees and promise to pay the amount due and payable under this guarantee without any demure merely on a demand from the Employer stating that the amount claimed is due by way of loss or damage cause to or would be caused or suffered by the Employer by reason of any breach by the said contractor of any of the terms or conditions contained in the said agreement or by reason of the contractor 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. --
----- (in words) only.

We -----(indicate the name of Bank), further undertake to pay to the Employer any money so demanded not withstanding any dispute or dispute raised by the contractor in any suit or proceeding pending before any court or Tribunal relating to liability under this present being absolute and unequivocal.

The Payment so made by us (name of Bank) under this bond shall be a valid

discharges of our liability for payment there under and the Contractor shall have no claim against us for making such payment.

We------(indicate the name of bank), to further agree that 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 at all the dues of the Employer under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged by -----

(Designation and address of contract signing authority) on behalf of Employer certify that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor and accordingly discharges this guarantee.

Not with standing anything to the contrary contained herein the liability of the bank under this guarantee will remain in force and effect until such time as this guarantee is discharged in writing by the Employer or until (date of validity/extended validity) whichever is earlier and no claim shall be valid under the guarantee unless notice in writing , thereof is given by the Employer within validity/extended validity period of guarantee from the date aforesaid.

Provided always that we(name of bank) un conditionally undertakes to renew this guarantee or to extend the period of guarantee from year to year before the expiry of the period or the extended period of guarantee, as the case may be on being called upon to do so by the Employer. If the guarantee is not renewed or the period extended on demand, we ----- (name of bank) shall pay the Employer the full amount of the guarantee on demand without demur.

We------(indicate the name of Bank), to further agree with the Employer that the Employer shall have the fullest liberty without our consent and without effecting in any manner out of obligation hereunder to vary any of the terms and conditions of the said contract from time to time or to postpone for any time or from time to time any to power exercisable by the Employer against the said contractor and to forbear or enforce any of the terms and conditions of the said agreement and we shall not be relieved from our liabilities by reason of such variation, or extension being granted to the said contractor for any forbearance act or omission on the part of the Employer or any indulgence by the Employer to the said contractor or by any such matter or thing whatsoever which under the law relating to sureties for the said reservation would relieve us from the liability.

The Guarantee hereinbefore contained shall not be affected by any change in the constitution of Bank or of the Contractor.

The expression “The Employer”, “The Bank” and “The Contractor” hereinbefore used shall include their respective successors and assigns.

We----- (name of the bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing. Notwithstanding anything to the contrary contained hereinbefore:

- i) Our liability under this Bank Guarantee shall not exceed and restricted to Rs. ----- (in words).
- ii) This Bank Guarantee shall be valid up to -----, unless extended on demand by Employer.
- iii) The Bank is liable to pay the Guaranteed amount or any part thereof under this Bank Guarantee only if Employer serve a written claim or demand on or before-----

IN WITNESS WHEREOF we of the Bank have signed and stamped this guarantee on this day of ----- being herewith duly authorized.

Bank Seal

Signature of Bank Authorize Official with Seal

Name :-----

Designation:-----

Address :

Witness:

1. Name :.....
Designation :.....
Address :

2. Name
:.....
Designation:.....
.Address :.....

PART VII(b)

SCHEDULE OF WORK & QUANTITIES

FORM NO.1

SCHEDULE OF WORK AND QUANTITIES					
Maintenance of 2x25 kV High Rise Over Head Equipment on New Makarpura - Bhestan section of DFCCIL including New Udhana, New Gothangam, New Sanjali connectivity to Indian Railways for a period of 24 (Twenty-four) months under CGM Vadodara Unit.					
OHE Maintenance Activity					
Schedule 1: Regular Maintenance Activity					
S.N	Description of Work	Unit	Qty.	Unit Rate (Excl. GST)	Total Amount (Rs.) Excl GST
1	Checking and Maintenance of Cantilever assembly	Each	10000	656.58	6565800.00
2.	Checking and maintenance of 25 kV OHE conductors.	Each	500	4199.85	2099925.00
3.	Checking & maintenance of all type of 25 KV OHE Jumpers not covered in other items	Each	1000	384.03	384030.00
4.	Checking & maintenance of Overlaps (IOL) & (UIOL)	Each	480	1400.25	672120.00
5.	Checking & Maintenance of Anti Creep arrangement	Each	480	1050.18	504086.40
6.	Checking & Maintenance of 25 KV Isolator (SP/DP) including earthing heel arrangement if any.	Each	26	1123.33	29206.58
7.	Checking & Maintenance of 25 KV OHE at Turnouts	Each	30	1077.18	32315.40
8.	Checking & Maintenance of 25 KV OHE on a cross over	Each	40	2152.6	86104.00
9.	Checking & Maintenance of Section Insulator Assembly	Each	36	1077.18	38778.48
10.	Checking & Maintenance of Auto tension Device (ATD) (Yearly)	Each	850	2274.53	1933350.50
11.	Foot patrolling to be carried out along with schedule with one DFCCIL staff	Each	11000	125.4	1379400.00
12.	Checking & maintenance of all type of bonds & BEC connection including cleaning of muffs at OHE mast	Each	1200	25.25	30300.00
13.	Removal of & Re erection of bonds/Clamp of various type during track machine working or	Each	1200	65.31	78372.00

	Erection of missing/new bonds including Paint etc.				
14.	Checking & maintenance of leaning of OHE mast till a new mast erected	Each	100	2994.67	299467.00
15.	Checking & Maintenance of PTFE type neutral section (Quarterly)	Each	72	4565.58	328721.76
16.	Checking and Maintenance of Portal boom & drop arms free from foreign body including bird nests/kite	Each	400	334.38	133752.00
17.	Trimming of tree branches to maintain minimum 5-to-6-meter clearance from OHE.	Each	1000	22.64	22640.00
18.	Erection of 25 KV overhead equipment as per requirement	TKM	5	36341.81	181709.05
19.	Checking and compilation of hotspot of OHE using Thermo vision camera by a skilled Engineer	Each	20	822.47	16449.40
20.	Stencilling/Painting of rail level, implantation, MRL, ERL & location number etc. Sed Parameters	Each	600	70.36	42216.00
21.	Painting of counter weight of ATD & guy rod assembly including marking of Y value.	Each	950	497.2	472340.00
22.	Checking and maintenance of Feeder Termination and AEC termination	Each	562	302.08	169768.96
23.	Drilling of hole for Bond	Each	40	33.41	1336.40
24.	Providing and replacing of DO Fuse at Auxiliary Transformer of 1 A/ 5A as per requirement.	Each	100	110.07	11007.00
25.	Maintenance of Auxiliary Transformer at Station and ALH and TH Locations	Each	116	749.75	86971.00
26.	Checking and maintenance of 25 kV OHE feeder & AEC conductors excluding termination arrangement	Each	480	1049.96	503980.80
				Schedule 01 Total	16104147.73

Schedule 2: OHE Breakdown Maintenance Activity					
S. No	Description of Work	Unit	Qty.	Unit Rate (Excl. GST)	Total Amount (Rs.) Excl GST
1	OHE Break Down 2 Gangs consisting of 10 nos. of staff (1 nos. Highly skilled, 2 nos. Skilled, 3 nos. Semi-skilled and 4 nos. of unskilled supervisory Man power.)- 12 hours shift				
a	High skilled Man Power	Man days	1440	1043	1501920.00
a	Skilled Man Power	Man days	2880	949	2733120.00
b	Semi-Skilled Man Power	Man days	4320	808	3490560.00
c	Un-skilled manpower	Man days	5760	716	4124160.00
Schedule 02 Total					11849760.00
Schedule 03 - Emergency, Other maintenance activities & hiring of vehicles					
S. No	Description of Work	Unit	Qty.	Unit Rate (Excl. GST)	Total Amount (Rs.) Excl GST
1.	Loading, unloading of DFCCIL supplied material to places directed by Engineer in charge (i.e., From station to tower wagon, station to station etc.) (applicable for material more than 2 MT)	Each occasion	40	3391.75	135670.00

2	<p>Hiring and operating of Tata SFC 610 (closed i.e. metallic closure) or Similar with loading capacity of minimum 3T, 4 cylinder engine, factory built metal body, cargo box type (with 24x7 hours availability, along with Driver), including cost of fuel, lubricants, all repairs, salary of driver, all taxes excluding GST, including running up to 1500 km in a month. The vehicle shall run on pucca, kutcha road and along the track. Toll tax, interstate tax / state entry tax / octroi tax, parking charges on tour will be reimbursed after having submitted the proof. No rest, no weekly off and no holidays will be given to the vehicle. Contractor has to arrange drivers for Shift wise duty accordingly. In case of servicing/ repair, replacement, vehicle is to be arranged by the Contractor along with the driver at no additional cost. The vehicle should be manufactured of year 2021 or latest</p>	Vehicle month	24	71593.8	1718251.20
3	<p>Extra 500 km per month for item 2, Schedule 03. (Extra Charges for running of each vehicle beyond 1500 km per month will be paid on average in a quarter).</p>	KM	12000	13.65	163800.00

4	Hiring and Operating of Multi-Utility Vehicle (Open) Mahindra Bolero Camper Gold ZX or Similar with loading capacity of one MT and seating capacity of 4/6 persons, 4 cylinders engine, Axle Configuration 4x2, factory- built metal body, cargo box type or passenger cabin type or both (with 24x7 hours availability, along with Driver), including cost of fuel, lubricants, all repairs, salary of driver, all taxes, including running up to 4000 km in a month. The vehicle shall run on pucca, kutcha road and along the track. Toll tax, interstate tax / state entry tax / octroi tax, parking charges on tour will be reimbursed after having submitted the proof. No rest, no weekly off and no holidays will be given to the vehicle. Contractor has to arrange at least Two drivers for Shift wise duty accordingly. In case of servicing/ repair, replacement, vehicle is to be arranged by the Contractor along with the driver at no additional cost. The vehicle should be manufactured in year 2021 or latest	Vehicle month	24	41702	1000848.00
5	Fuel Charges for running of vehicles per km as per log book for item no. (4) above	KM	1543	10.42	16078.06
Total of Schedule 3					3034647.26
Schedule -04 Foundation items					
S. No	Description of Work	Unit	Qty.	Unit Rate (Excl. %GST)	Total Amount (Rs.) Excl GST
1	Auguring & Casting of all types of foundation (The rate includes supply of the material- ballast, sand, cement, mixture & reinforcement etc.)	CUM	40	6256.66	250266.40
Schedule 04 Total					250266.40

Schedule -05 Additional OHE work					
S. No	Description of Work	Unit	Qty. (tentative)	Unit Rate (Excl. %GST)	Total Amount (Rs.) Excl GST
1	Supply and fixing of Splicing Clamp Assembly For 150 sq. mm Contact Wire (Crocodile Type)	Each	10	4503.34	45033.40
2	Supply and fixing Catenary Wire Splice 125 Sq. mm	Each	20	2112.19	42243.80
3	Supply and fixing Feeder wire splice for 288 sq. mm AAAC conductor	Each	5	2694.03	13470.15
4	Supply and fixing Aerial Earth wire splice for 93.3 sq. mm ACSR conductor	Each	5	1232.75	6163.75
5	Supply and fixing of Splicing Clamp Assembly for 107 sq. mm Contact Wire (Crocodile Type)	Each	10	2251.38	22513.80
6	Supply and fixing Catenary Wire Splice 65 Sq. mm.	Each	2	750.46	1500.92
7	Supply of material for single earth electrode	Each	2	1961.61	3923.22
8	Preparation of design and drawing for overhead equipment and verification as per plan	TKM	4	11173.01	44692.04
9	Supply of spares, tools & equipment required during maintenance & break downs for a period of 2 year- As per Appendix - A (part-01 & 02)	As per Appendix-A	As per Site Requirement	As per Appendix-A	500000.00
Schedule 05 Total					679541.08
Total Value of Schedule 1 to 5					31918362.47
Total estimated value is Rs. 31918362.47 (Rs. Three Crore Nineteen Lakhs Eighteen Thousand Three Hundred sixty two and Paise forty seven Only)					
Note: GST will be paid Extra.					

Quoting of rates

Rate will be% (Percentage) below/above/ at par (to be filled by the bidder in figure).

Rate will be..... (Percentage) below/above/at par (to be filled by the bidder in words).

I/We offer and agree to execute the above work at rate uploaded online at www.ireps.gov.in through digital Signature.

Appendix- A

Part-01: Supply of Spares, tools & equipments required during maintenance & breakdowns for a period of 02 years

Sr. No.	Description of Item	Unit	Rate (excluding GST)
1	Counter weight Guide tubes (6.3m long) (RI NO: 5062-1 (S) for HIGH RISEOHE.	Nos	1392.16
2	9 Tonne adjuster complete with Both side eye (5020) for HIGH RISE OHE	Nos	565.57
3	Anchor Double strap (set of 2 nos of 5031) (RI NO: 5030) complete with nut ,bolt, washer & split pin (RI 5031)	Nos	160.97
4	Typical Structural number plate (125mm size) ((RI No 7503) Size: 310mm x340mm x 2mm	Nos	417.65
5	Contact wire parallel clamp Large with GI bolt and nut 16x50/38 MM andspring washer B-16 as per RDSO Drg No ETI/OHE/P/1030-2 (Mod-D) (RI1031-2)	Nos	211.43
6	Contact wire parallel clamp (part 2 Nos of 1031-3) (RI NO 1030-3) (157-65/107/150) (RI 1031-3)	Nos	426.35
7	Contact wire parallel clamp small Part no 1041-2 with fasteners Drg noETI/OHE/P/1040-2 (Mod-E) (RI 1041-2)	Nos	211.43
8	Parallel Clamp (150/105 - 150) RI No: 1050-2 (RI 1051-2)	Nos	426.35
9	105 SQMM Large jumper wire annealed copper wire .	Metre	522.06
10	50 Sqmm flexible copper jumper wire.	Metre	228.84
11	Large suspension clamp to suit 288sqmm AAAC feeder wire (22.05 mm dia)complete assembly with armour tape and ferrule (RI No 1580)	Nos	861.40
12	160 sqmm Large jumper annealed flexible copper wire .	Metre	1330.38
13	Post Insulator Jumper Clamp (set of 2 nos) (RI NO: 6094)	Nos	239.28
14	Terminal Connector (19mm) Multiple hole (bolted type) (RI No:1009 & 1009-1)	Nos	1392.16
15	Structure bonds (50X6)	Nos	535.74
16	Single earth electrode (RI 7021)	Nos	2375.66
17	GS Snap Pin 16x50 mm	Nos	30.45



डेडीकेटेड फ्रेट कोरीडोर

Tender No. DFC-BRC-EL-OHE-MT/ 503/156

18	GS Flat Washer 16 mm	Nos	5.22
19	GS Split Pin 4x32 mm	Nos	4.79
20	GS Split Pin 4x36mm	Nos	5.22
21	Anchor V Bolt	Nos	269.73
22	"Anchor Bolt RI-5001-3	Nos	265.38
23	Anchor Loop RI 5008	Nos	1261.65
24	GS Bolt 16x 50/30 mm with Nut & Flat washer	Nos	24.36
25	GS Bolt 16x 50/38 mm with Nut & Flat washer	Nos	24.36
26	Copper Split Pin 2.5x25 mm	Nos	3.48
27	Copper Split Pin 4x36 mm	Nos	7.83
28	GS 'J' Bolt 16X55 mm with Nut & flat Washer	Nos	36.54
29	GS 'J' Bolt 16X120 mm with Nut & flat Washer	Nos	66.13
30	GS Bolt 12x100/30 with Nut, Locknut & Flat Washer	Nos	17.40
31	GS Bolt 12x55/30 with Nut, Locknut & Flat Washer	Nos	14.79
32	GS Bolt 12x75/30 with Nut, Locknut & Flat Washer	Nos	15.66
33	GS Bolt 12x50/35with Nut, Locknut & Flat Washer	Nos	19.14
34	GS Bolt 12x200/49 with Nut & Spring washer	Nos	30.45
35	GS Bolt 16x40/38 with Nut, Locknut & Spring Washer	Nos	22.62
36	GS Bolt 16x220/57 with Nut, Locknut & Flat Washer	Nos	47.86
37	GS Bolt 16x260/57 with Nut, Locknut & Flat washer	Nos	52.21
38	GS Bolt 16x300/57 with Nut, Locknut & Flat Washer	Nos	73.96

39	GS Bolt 16x 360/57 with Nut, Locknut & Flat Washer	Nos	82.66
40	GS Bolt 20x65/46 with Nut, Locknut & tapered washer	Nos	37.41
41	GS Bolt 20x85/46 with Nut Lock nut & Tapered Washer	Nos	40.89
42	GS Bolt 16x175/44 with Nut, Locknut & Flat Washer	Nos	41.76
43	GS Bolt 16x 220/57 with Nut, Locknut & Flat Washer	Nos	46.12
44	GS Bolt 10x50/26 with Nut & Flat Washer	Nos	13.05
45	GS Bolt 16x65/38 with Nut, Locknut & Flat Washer	Nos	26.10
46	GS Bolt 16x260/100 With Nut, Locknut	Nos	49.60
47	GS Bolt 16x320/100 with Nut, Locknut	Nos	69.61
48	GS bolt 20x50/37 with Nut, Locknut & Flat Washer	Nos	36.54
49	GS bolt 20x260/65 with Nut, Locknut & Flat Washer	Nos	82.66
50	GS bolt 20x280/65 with Nut, Locknut & Flat Washer	Nos	87.01
51	GS bolt 20x330/65 with Nut, Locknut & Flat Washer	Nos	113.11
52	GS bolt 16x360/57 with Nut, Locknut & Flat Washer	Nos	82.66
53	GS bolt 24x70/54 with , Locknut & Copper Split Pin 5x40 mm	Nos	60.91
53	GS bolt 20X85/37 with Nut, Locknut & Flat Washer	Nos	59.17
55	Pin Contact wire Swivel Clip RI 1222	Nos	19.01
56	Pin Copper Split 4x36 mm	Nos	7.83
57	Pin Copper Split 4x40 mm	Nos	6.09
58	Pin Copper Split 2.5x20 mm	Nos	4.35
59	Pin "U" Copper for Contact Droper Clip RI 1181	Nos	12.18

60	SNAP HEAD Pin Clevice GS 20x65 mm	Nos	31.32
61	SNAP HEAD Pin Clevice GS 20x105 mm	Nos	83.53
62	SNAP HEAD Pin Snap Head GI 20x65	Nos	33.93
63	SNAP HEAD Rivet Copper 6 x 50 mm	Nos	27.84
64	SNAP HEAD Rivet Copper 12x65 mm	Nos	73.96
65	SNAP HEAD Rivet Copper 6x55 mm	Nos	27.84
66	SNAP HEAD Rivet Copper 6 x 50 mm	Nos	31.32
67	Rivet Aluminum 6x35 mm	Nos	6.09
68	Catenary Dropper Clip RI 1192	Nos	192.29
69	Contact Wire Dropper Clip RI 1181	Nos	139.22
70	SS Bolt 16x50	Nos	70.48
71	SS Nut 16 mm Dia	Nos	26.10
72	SS Lock Nut 16 mm Dia	Nos	20.88
73	SS Bolt 12 X 60 / 30 mm	Nos	44.38
74	SS Bolt 12x45x30	Nos	33.93
75	SS Bolt 10 X 35 / 30 mm	Nos	22.62
76	SS Bolt 10 X 25 / 30 mm	Nos	19.14
77	SS Bolt with Nut, L. Nut & Washer 10x65x30	Nos	44.38
78	SS Bolt 10x35/30 with hole	Nos	22.62
79	SS Nut 10 mm	Nos	14.79
80	SS Lock Nut 10 mm	Nos	4.35

81	SS Nut 12 mm	Nos	11.31
82	SS Lock Nut 12 mm	Nos	13.05
83	Bull dog clamp for 65 Sq. mm catenary (10mm dia.) copper material	Nos	582.97
84	Bull dog clamp for 125 Sq. mm catenary (14mm dia.) copper material	Nos	626.47
85	Bull dog clamp steel rope (14mm Dia) steel material	Nos	278.43
86	14mm dia steel rope for Emergency mast guy rod	MTR	316.72
87	LV junction Box for 25 kVA Auxiliary Transformer	Nos	12181.40
88	LV junction Box for 10 kVA AT Auxiliary Transformer	Nos	12181.40
89	LV junction Box for 50 kVA AT Auxiliary Transformer	Nos	13486.55
90	LV junction Box for 100 kVA AT Auxiliary Transformer	Nos	16966.95
91	Sigma Board Retro Reflective	Nos	2714.71
92	Supply of Retro - Reflective structure number plate as per RDSO Spec No. ETI/OHE/33A(12/97) Rev. 8	Nos	327.16
93	One set consisting of (i) Fuse carrier tube, glass fibre 500 mm long-1 No. (ii) Jaw tin bronze-1 No (iii) end fitting (FUSE carrier) 1 No (iv) Swivel with hook- 1 no. (v) horn link 1 no. (vi) Terminal connector-2 nos, For 25 kV DO FUSE switch as per RDSO drawing nol ETI/PSI/032 REV. "D", Make IM as per CORE-ALD approved drg No. IM/120/04	Nos	4785.55
94	Drop out fuse (Fuse Link of 1A)	Nos	69.61
95	Drop out fuse (Fuse Link of 5A)	Nos	95.71
96	25 kV Earthing Discharge Rod for High Rise OHE With length of cable 13 mtr (11.5+1.5) mtrs with folding fibre stick of total length 6700 mm in 4 equal sections, cable size 248/0.45 mm single core flexible multi stranded annealed copper as per our CORE-ALD approved Drg No IM. 107/95 Rev- A & RDSO spec no. ETI/OHE/51 (9/87) Rev-A (oct-92)	Nos	19230.08
97	Operating pole for 25 kv drop out fuse switch make IM as per our core ALD approved dwg no. IM/118/04 and RDSO spect no. ET/PSI/14(1/56).	Nos	6090.70
PART-2 Tools & Plant (T&P) for Operation & Maintenance of OHE work for 02 years period.			
1	Supply of GEARLESS HAND OPERATED PULLING AND LIFTING MACHINE TIRFOR, CAPACITY LIFTING 1.5 TON, PULLING 2.5 TON WITH 20MTRS STEEL WIRE ROPE TO RDSO SPECIFICATION NO. TI/SPC/OHE/TOOLPL/0990 with A & C Slip No. 1 & 2 or latest" & WDFC requirement. ACCEPTED MAKE: IM, TRACTEL , OCC, CMIS or Similar-RDSO Approved.	Nos	10876.25
	Supply of GEARLESS HAND OPERATED PULLING AND LIFTING MACHINE TIRFOR, CAPACITY LIFTING 3 TON,PULLING 5 TON WITH 20 MTRS STEEL WIRE ROPE TO RDSO SPECIFICATION NO.		18446.12



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Tender No. DFC-BRC-EL-OHE-MT/ 503/156

2	TI/SPC/OHE/TOOLPL/0990 with A & C Slip No. 1 & 2 or latest" & WDFC requirement. ACCEPTED MAKE: IM, TRACTEL , OCC, CMIS or Similar-RDSO Approved.	Nos	
3	Supply of GEARLESS HAND OPERATED PULLING AND LIFTING MACHINE TIRFOR, CAPACITY LIFTING 0.75 TON,PULLING 0.75 TON WITH 20MTRS STEEL WIRE ROPE TO RDSO SPECIFICATION NO. TI/SPC/OHE/TOOLPL/0990 with A & C Slip No. 1 & 2 or latest" & WDFC requirement. ACCEPTED MAKE: IM, TRACTEL , OCC, CMIS or Similar-RDSO Approved.	Nos	7917.91
4	Supply of RATCHET LEVER HOIST (PULL LIFT) WITH ROLLER CHAIN (20Meter) WITH LIFTING CAPACITY OF 3 TON. AS PER RDSO SPEC NO.TI/SPC/OHE/TOOLPL/0990 with A & C Slip No. 1 & 2 or latest" & WDFCrequirement 1.4 M LIFT OR LATEST. ACCEPTED MAKE : IM, OCC, TRACTEL, SAMSON, SHAKTI or Similar- RDSO Approved.	Nos	8431.27
5	Supply of RATCHET LEVER HOIST(PULL LIFT) WITH ROLLER CHAIN (20Meter) WITH LIFTING CAPACITY OF 0.75 TON. AS PER RDSO SPEC NO.TI/SPC/OHE/TOOLPL/0990 with A & C Slip No. 1 & 2 or latest" & WDFCrequirement 1.4 M LIFT OR LATEST. ACCEPTED MAKE : IM, OCC, TRACTEL, SAMSON, SHAKTI or Similar- RDSO Approved.	Nos	5003.08
6	Supply of COME ALONG CLAMP FOR Catenary WIRE SUITABLE FOR 125 SQMM 2.5 TONNE AS PER DRAWING NO. RE/33/P/550 & WDFC requirement WITH LOAD TEST CERTIFIED Make: IM/Shree Ram Engineers or Similar-RDSO Approved.	Nos	1827.21
7	Supply of COME ALONG CLAMP FOR Catenary WIRE SUITABLE FOR 65 SQMM 2.5 TONNE AS PER DRAWING NO. RE/33/P/550 & WDFC requirement WITHLOAD TEST CERTIFIED. Make: IM/Shree Ram Engineers or Similar- RDSO Approved.	Nos	1827.21
8	Supply of COME ALONG CLAMP FOR Contact WIRE SUITABLE FOR 150 SQMM 2.5 TONNE AS PER DRAWING NO. RE/33/P/550 & WDFC requirement WITHLOADTEST CERTIFIED. Make: IM/Shree Ram Engineers or Similar- RDSO Approved.	Nos	1827.21
9	Supply of COME ALONG CLAMP FOR Contact WIRE SUITABLE FOR 107 SQMM 2.5 TONNE AS PER DRAWING NO. RE/33/P/550 & WDFC requirement WITHLOAD TEST CERTIFIED. Make: IM/Shree Ram Engineers or Similar- RDSO Approved.	Nos	1827.21
10	Supply of Come along clamp for 181 sq.mm AEC Wire (ACSR) BOLT TYPE &WDFC requirement. Make- Sri ram Engineers or similar	Nos	7448.06
11	Supply of Come along clamp for 288 sq.mm Feeder (AAAC) BOLT TYPE & WDFC requirement Make- Sri ram Engineers or similar	Nos	7448.06
12	Supply of D' Shackles made of alloy steel. Set consisting one no. shackle of eachsize (1", 3/4", 5/8", 1/2"). Shackles shall have loading capacity upto 5T and made as per IS: 6132 and shall be suitable for use in TRD works Make IM or Similar- RDSO Approved.	Nos	565.57
13	Supply of Single sleeve pulley block 3 1/2 x 1/2" groove steel with capacity 2.5ton Make IM or similar RDSO approved.	Nos	1035.42

14	Supply of Double sleeve pulley block 3 1/2 x 1/2" groove steel with capacity 2.5 ton Make IM or similar RDSO approved.	Nos	1100.68
15	Single sleeve pulley block 3 1/2" x 1/2" groove FIBER with capacity 2.5 ton Make IM or similar RDSO approved.	Nos	1400.86
16	Single sleeve pulley block 6"X1" groove steel with capacity 3 ton Make IM or similar RDSO approved.	Nos	913.61
17	Supply of Steel slings with eye each end 16 mm dia 1.5 mtr long. Flexible Make: IM/Mahadev/Bharat Wires/Usha Martin or equivalent	Nos	581.12
18	Supply of Steel slings with eye each end 16 mm dia 2 mtr long.flexible Make :IM/Mahadev/Bharat Wires/Usha Martin or equivalent	Nos	785.09
19	Supply of Steel slings with eye each end 16 mm dia 3 mtr long.flexible Make :IM/Mahadev/Bharat Wires/Usha Martin or equivalent	Nos	986.81
20	Supply of Steel slings with eye each end 16 mm dia 4.5 mtr long.flexible Make :IM/Mahadev/Bharat Wires/Usha Martin or equivalent	Nos	1244.59
21	Supply of Steel slings with eye each end 16 mm dia 10 m long. Flexible Make :IM/Mahadev/Bharat Wires/Usha Martin or equivalent	Nos	2378.11
22	Supply of Contact wire twist cum bender for(107 Sq. mm and 150 sq.mm sizewires) 6", Accepted make:IM or similar as per approved Drg No. IM/CWTB/05/12/101 Similar to RE/DNR drg.	Nos	587.32
23	Contact wire Splicing jig (107 & 150 Sq.mm). (Contact wire splicing jig for contact wire as per Drg. No. RE/DNR/EL/TP/110 & as per our RE approved Drg No. IM/CWSJ/05/12/103, similar to RE/DNR Drg.	Nos	5082.25
24	Supply of Manilla rope 20 mm dia. Circular GRADE 1 MANILA ROPE WITHOUTROT PROFFING AS PER IS 1084: 2005 AMDS 2	Meter	118.33
25	Supply of Manilla rope 16 mm dia. Circular GRADE 1 MANILA ROPE WITHOUTROT PROFFING AS PER IS 1084: 2005 AMDS 2	Meter	106.15
26	Supply of Manilla rope 12 mm dia. Circular GRADE 1 MANILA ROPE WITHOUTROT PROFFING AS PER IS 1084: 2005 AMDS 2	Meter	94.84
27	Supply of Highly insulated fibre glass hot line stick telescopic- 10 m long with MS Hook(HIGH RISE OHE), Make:IM as per Drg No. IM/145A/05/145B/08.	Nos	11594.08
28	Hydraulic Crimping tools- Capacity 25 sq. mm to 400 sq. mm, Model: Ashoka-400, Make: Jainson	Nos	18515.73
29	Dropper making Jig and Wire straightener for 07 mm, as per Rly approved DrgNo. IM/DMG/05/12/102, ,similar to RE/DNR drg.	Nos	17506.41
30	Supply of Insulator testing machine Tensile load Testing machine for testing of25 kV porcelin and composite insulator as per RDSO specification No. TI/SPC/OHE/INSTEST/0090 (02/2009) with A&C slip No. of latest (Hydraulic Insulator Testing Jig) Make : BCPL or CCSPL or any other RDSO approved.	Nos	221135.92
31	Supply of Industrial Safety Helmet (White & Yellow) as per IS CODE 2951 : 1984or latest Make: Karam or similar	Nos	274.08
32	Supply of Industrial Safety belt and harness Class:A, as per IS 3521 or latestMake: Karam or similar	Nos	1087.63
33	Supply of Rubber insulated Safety Hand Gloves 25/33 kV as per IS 47701991 or latest , Make: Jyoti/Vidyut/Karam	Nos	739.59

34	Supply of Safety Anti acid hand gloves Make: Jyoti/Vidyut/Karam or similar	Nos	147.92
35	Supply of Safety Shoes, Make : Allen Cooper/ Bata or similar , 7 No- 40, 8 No-40,9 No-30, 10 No-10.	Nos	996.26
36	Supply of Safety Jacket as per IS 15809 (2008) or latest	Nos	154.88
37	Supply of Protective Glass (Eye protection) Make: Karam/PEC/Venus	Nos	704.78
38	Supply of Personal tool bag	Nos	1409.56
39	Petrolium jelly for battery cell maintenance	KG	539.46
40	HRC Fuse 6A	Nos	156.62
41	HRC Fuse 16A	Nos	165.32
42	Cell tester analog (galvano meter)	Nos	1222.49
43	Kit kat fuse 250A	Nos	541.20
44	Kit kat fuse 200A	Nos	530.76
45	Kit kat fuse 100A	Nos	522.06
46	Kit kat Fuse 630A	Nos	1701.05
47	Battery Operated Metal Cutter Heavy Duty (PG CLAMP)	Nos	19803.48

PART VII(c)

FORM NO (2) TO FORM NO (11)

TENDERER'S CREDENTIALS

SN	Description
1.	For technical experience/competence, give details of similar completed works during the last Seven financial years in the Performa given in Form-2A
2.	Bid Capacity- Details Of Existing Commitment And Balance Work Form-
3.	Give constitution of your firm. Attach certified copies of legal documents in support thereof. Form-2C

FORM No. 2A

TECHNICAL ELIGIBILITY CRITERIA DETAILS

Details of the similar works completed (as per Para 10 of Preamble and General Instruction to Tenders)

Similar Contract No.		
Contract Identification		
Award date		
Completion date		
Role in Contract	Prime Contractor	Member in JV
Total Contract Amount (Rs.)		
If member in a JV, Specify participation in total contract amount	[insert percentage amount]	Total contract amount in Rs.
Total work done (Final Bill/Last Bill paid in case final bill under preparation)		
Amount of work executed having similar nature of work i.e “Any Electrical Work”		
Employer’s Name: Address: Telephone/Fax number E-Mail:		
Description of the similarity in accordance with Criteria as per Para 10 of Preamble and General Instruction to Tenders		

Note:-The Bidder shall attach certified work completions certificates / certified copy of final bill/last bill paid issued by clients for Any Electrical Work. In case main contract is not exclusively for Any Electrical Work, the client’s certificate indicating the amount of executed work for Any Electrical Work shall be attached by the bidder. In case above documents clearly showing the amount of work done for similar nature of work i.e. “Any Electrical Work” are not submitted by the bidder at the time of submission, his bid will be treated as invalid and shall not be considered for evaluation.

Signature of the

Tenderer with Seal

Form No.2B

Statement of Works in Progress for Bid Capacity

BID CAPACITY-DETAILS OF EXISTING COMMITMENT AND BALANCE WORK

Each Bidder or each member of JV must fill in this form separately.

Name of Tenderer/JV partner:

S. N	Name and 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	B' value of work to be done in 'N' years

Note:-

Where

A= (Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender), taking into account the completed as well as works in progress)=Rs.....

N = (Number of years prescribed for completion of work for which bids has been invited).Years

B = (Existing commitments and balance amount of ongoing works with the tenderer as per the above format for statement of all works in progress and also the works which are awarded to tenderer but yet not started up to the date of inviting of tender)=Rs.....

Calculated Bid Capacity of the Tenderer / JV Partner $[AxNx2 - 0.33xNx B] = Rs.....$

2. This statement should be submitted duly verified by Chartered Accountants

APPLICANT'S PARTY INFORMATION FORM

<p>Applicant name: <i>[insert full name]</i></p>
<p>Applicant's Party name: <i>[insert full name of Applicant's Party]</i></p>
<p>Applicant's Party country of registration: <i>[indicate country of registration]</i></p>
<p>Applicant Party's year of constitution: <i>[indicate year of constitution]</i></p>
<p>Applicant Party's legal address in country of constitution: <i>[insert street/ number/ town or city/ country]</i></p>
<p>Applicant Party's authorized representative information Name: <i>[insert full name]</i> Address: <i>[insert street/ number/ town or city/ country]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers, including country and city codes]</i> E-mail address: <i>[indicate e-mail address]</i></p>
<p>1. Attached are copies of original documents of</p> <ul style="list-style-type: none"> <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above. <input type="checkbox"/> In case of a Government-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and absence of dependent status. <p>2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.</p>

**ECS / NEFT / RTGS
MANDATE FORM**

Date:-

To,

Dy.CPM/Finance

DFCCIL/Vadodara

Sub: ECS / NEFT / RTGS payments

We refer to the ECS / NEFT / RTGS set up by DFCCIL for remittance of our payments using RBI's NEFT / RTGS scheme, our payments may be made through the above scheme to our under noted account.

Name of Bank	
Name of City	
Bank Code No	
Name of Bank Branch	
Branch Code No	
Address of Bank Branch	
Telephone Number of Bank Branch	
Fax No of Bank Branch	
Name of customer / Tenderer as per account	
Account Number of Tenderer appearing on cheque book	
Type of Account (S. B. / Current / Cash credit)	
IFSC code for NEFT	
IFSC code for RTGS	
9-Digit-code number of the bank and branch appearing on the MICR cheque issued by the bank.	
Details of Cancelled Cheque leaf	
Telephone no of tenderer	
Cell Phone Number of the tenderer to whom details with regard to the status of bill submitted to Accounts Office i.e. Co6 & Co7 & Cheque Purchase Orders particulars can be intimated through SMS	
Tenderer's E - mail ID	

Confirmed by Bank signature of tenderer with stamp and address
Enclose a copy of crossed cheque

**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/ Vadodara 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/ Vadodara 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 _____ 200 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 Contract or any other Contract with the Government for showing or forbearing to show favour or disfavor 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 or 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 middleman or agent or broker with a view a view to securing Contract 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 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.
- 6.2 The client will
entitledtotakealloranyoftheactionsmentionedatpara6.1(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.
- 6.3 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 were 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 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 here by sign this integrity pact at.....On.....

CLIENT
Name of the Officer
Designation
Deptt./Ministry/PSU

BIDDER

Witness

1. _____

2. _____

Witness

1.-----

2. _____

Form No. 6

ANTI-PROFITEERING DECLARATION TO WHOMSOEVER IT MAY CONCERN

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> ofAnd 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 are as 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 avilment 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.

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

**DRAFT MEMORANDUM OF UNDERSTANDING (MOU) For
JOINT VENTURE PARTICIPATION
BETWEEN**

M/s Having its registered office at (Hereinafter referred to as) acting as the Lead Partner of the first part,

and

M/shaving its registered office at (Hereinafter referred to as `.....') in the capacity of a Joint Partner of the other part.

and

M/shaving its registered office at (Hereinafter Referred to as `.....') in the capacity of a Joint Partner of the other part.

The expressions of And Shall wherever the context admits, mean and include their respective legal representatives, successors-in-interest and assigns and shall collectively be referred to as “the Parties” and individually as “the Party”

WHEREAS:

Dedicated Freight Corridor Corporation of India Limited (DFCCIL) [hereinafter referred to as “Client”] has invited bids for “[Insert name of work].....”

NOW, THEREFORE, THE PARTIES AGREE AS FOLLOWS:

1. The following documents shall be deemed to form and be read and construed as an integral part of this MOU.
 - (i) Notice for Bid, and
 - (ii) Bidding document
 - (iii) Any Addendum/Corrigendum issued by Dedicated Freight Corridor Corporation of India Limited
 - (iv) The bid submitted on our behalf jointly by the Lead Partner.
2. The `Parties` have studied the documents and have agreed to participate in submitting a `bid` jointly.
3. M/sshall be the lead member of the JV for all intents and purpose and shall represent the Joint Venture in its dealing with the Client. For the purpose of submission of bid proposals, the parties agree to nominate As the leader duly authorized to sign and submit all documents and subsequent clarifications, if any, to the Client. However M/s shall not submit any such proposals, clarifications or commitments before securing the written clearance of the other partner which shall be expeditiously given by M/s.....to

M/s.....

4. The 'Parties' have resolved that the distribution of responsibilities and their proportionate share in the Joint Venture is as under:

(a) Lead Partner;

(i)

(ii)

(iii)

(b) Joint Venture Partner

(i)

(ii)

(iii)

[Similar details to be given for each partner]

5. JOINT AND SEVERAL RESPONSIBILITIES

The Parties undertake that they shall be jointly and severally liable to the Client in the discharge of all the obligations and liabilities as per the contract with the Client and for the performance of contract awarded to their JV.

6. ASSIGNMENT AND THIRD PARTIES

The parties shall co-operate throughout the entire period of this MOU on the basis of exclusivity and neither of the Parties shall make arrangement or enter into agreement either directly or indirectly with any other party or group of parties on matters relating to the Project except with prior written consent of the other party.

7. EXECUTIVE AUTHORITY

The said Joint Venture through its authorized representative shall receive instructions, payments from the Client. The management structure for the project shall be prepared by mutual consultations to enable completion of project to quality requirements within permitted cost and time.

8. BID SECURITIES

Till the award of the work, JV firm/Lead Partner of JV firm shall furnish Bid Security to the Client on behalf of the joint venture which shall be legally binding on all the members of the Joint Venture.

9. BID SUBMISSION

Each Party shall bear its own cost and expenses for preparation and submission of the bid and all costs until conclusion of a contract with the Client for the Project. Common expenses shall be shared by all the parties in the ratio of their actual participation.

10. INDEMNITY

Each party hereto agrees to indemnify the other party against its respective parts

in case of breach/default of the respective party of the contract works of any liabilities sustained by the Joint Venture.

11. For the execution of the respective portions of works, the parties shall make their own arrangements to bring the required finance, plants and equipment, materials, manpower and other resources.

12. DOCUMENTS & CONFIDENTIALITY

Each Party shall maintain in confidence and not use for any purpose related to the Project all commercial and technical information received or generated in the course of preparation and submission of the bid.

13. ARBITRATION

Any dispute, controversy or claim arising out of or relating to this agreement shall be settled in the first instance amicably between the parties. If an amicable settlement cannot be reached as above, it will be settled by arbitration in accordance with the Indian Arbitration and Conciliation Act 1996 or any amendments thereof. The venue of the arbitration shall be Delhi.

14. VALIDITY

This Agreement shall remain in force till the occurrence of the earliest to occur of the following, unless by mutual consent, the Parties agree in writing to extend the ea for a further period.

- a. The bid submitted by the Joint Venture is declared unsuccessful, or
- b. Cancellation/ shelving of the Project by the client for any reasons prior to award of work
- c. Execution of detailed JV agreement by the parties, setting out detailed terms after award of work by the Client.

15. This MOU is drawn in Number of copies with equal legal strength and status. One copy is held by M/s and the other by M/s..... &M/s And a copy submitted with the proposal.

16. This MOU shall be construed under the laws of India.

17. NOTICES

Notices shall be given in writing by fax confirmed by registered mail or commercial courier to the following fax numbers and addresses:

Lead Partner

Other Partner(s)

.....
(Name & Address)

.....
(Name & Address)



Tender No. DFC-BRC-EL-OHE-MT/ 503/156

IN WITNESS WHEREOF THE PARTIES, have executed this MOU the day, month and year first before written.

M/s.....
.....
(Seal)

M/s.....
.....
(Seal)

Witness

- 1..... (Name & Address)
- 2..... (Name & Address)

Notes: (1) In case of existing joint venture, the certified copy of JV Agreement may be furnished.

DRAFT FORMAT OF JOINT VENTURE AGREEMENT

To be executed on non-judicial stamp paper of appropriate value in accordance with relevant Stamp Act and to be registered with appropriate authority under Registration Act.

The JV agreement shall be structured generally as per contents list given below:

A. CONDITIONS AND TERMS OF JV AGREEMENT

1. Definitions and Interpretation
2. Joint Venture – Include Equity of members, transferability of shareholding of equity of a partner leaving during the subsistence of the contract.
3. Proposal Submission
4. Performance – To indicate scope of responsibility of each member
5. Language and Law
6. Exclusively
7. Executive Authority
8. Documents
9. Personnel
10. Assignment and Third Parties
11. Severability
12. Member in Default
13. Duration of the Agreement
14. Liability and sharing of risks
15. Insurance
16. Sharing of Promotion and Project Costs, Profits, Losses and Remuneration
17. Financial Administration and Accounting
18. Guarantees and Bonds
19. Arbitration
20. Notices
21. Sole Agreement and Variation

B. SCHEDULES

1. Project and Agreement Particulars
2. Financial Administration Services
3. Allocation of the obligations
4. Financial Policy and Remuneration

PRO-FORMA LETTER OF PARTICIPATION FROM EACH PARTNER OF JOINT VENTURE (JV)

(To be executed on non-judicial stamp paper of appropriate value in accordance with relevant Stamp Act and to be registered with appropriate authority under Registration Act.)

No....

Dated

From:

.....
.....

To,
Chief General Manager.,
Dedicated Freight Corridor Corporation of India Limited,
Vadodara-390024
Gentlemen,

Re: ...“*[Insert name of work]*.....”

Ref: Your notice for Invitation for Bid (IFB) No.....
Dated

1. We wish to confirm that our company/firm has formed a Joint Venture with (i)..... & ii)..... For the purposes associated with IFB referred to above.

(Members who are not the lead partner of the JV should add the following paragraph).*

2. ‘The JV is led by ... whom we hereby authorise to act on our behalf for the purposes of submission of Bid for and authorise to incur liabilities and receive instructions for and on behalf of any and all the partners or constituents of the Joint Venture.’

OR

*(Member(s) being the lead member of the group should add the following paragraph)**

2. ‘In this group we act as leader and, for the purposes of applying for Bid, represent the Joint Venture:
3. In the event of our JV being awarded the contract, we agree to be jointly with

i) & ii) (names of other members of our JV) and severally liable to the Dedicated Freight Corridor Corporation of India Limited, its successors and assigns for all obligations, duties and responsibilities arising from or imposed by the contract subsequently entered into between Dedicated Freight Corridor Corporation of India Limited and our JV.

- 4. *I/We, further agree that entire execution of the contract shall be carried out exclusively through the lead partner.**

Yours faithfully,

(Signature)

(Name of Signatory).....

(Capacity of Signatory).....

Company Seal

* Delete as applicable

Note: In case of existing joint venture, the certified copy of JV Agreement may be furnished.

**FORMAT FOR POWER OF ATTORNEY FOR AUTHORISED SIGNATORY OF
JOINT VENTURE (JV) PARTNERS**

POWER OF ATTORNEY*

(To be executed on non-judicial stamp paper of the appropriate value in accordance with relevant stamp Act. The stamp paper to be in the name of the company who is issuing the power of Attorney)

Know all men by these presents, we do hereby constitute, appoint and authorise Mr/Ms who is presently employed with us and holding the position ofas our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our bid for the work of..... Including signing and submission of all documents and providing information / responses to Dedicated Freight Corridor Corporation of India Limited, representing us in all matters, dealing with Dedicated Freight Corridor Corporation of India Limited in all matters in connection with our bid for the said project.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

Dated this the day of 2023.

(Signature of authorised Signatory)

Signature of Lead Partner

Signature of JV Partner(s)

.....
(Signature and Name in Block letters of Signatory)

Seal of Company

Witness

Witness 1:
Name:

Witness 2:
Name:

Address:
Occupation:

Address:
Occupation:

***Notes:**

- i) To be executed by all the partners jointly, in case of a Joint Venture.

**FORMAT FOR POWER OF ATTORNEY
TO LEAD PARTNER OF JOINT VENTURE
(JV)**

(To be executed on non-judicial stamp paper of the appropriate value in accordance with relevant stamp Act. The stamp paper to be in the name of the company who is issuing the power of Attorney)

POWER OF ATTORNEY*

Whereas Dedicated Freight Corridor Corporation of India Limited has invited Bids for the Work ofCGM/Vadodara unit of Western Dedicated Freight Corridor.

Whereas, the members of the Joint Venture comprising of M/s., M/s., M/s....., and M/s. are interested in submission of bid for the work of ...*[Insert name of work]*... in accordance with the terms and conditions contained in the bidding documents.

Whereas, it is necessary for the members of the Joint Venture to designate one of them as the Lead Partner, with all necessary power and authority to do, for and on behalf of the Joint Venture, all acts, deeds and things as may be necessary in connection with the Joint Venture's bid for the project, as may be necessary in connection the Joint Venture's bid for the project.

NOW THIS POWER OF ATTORNEY WITNESSETH THAT:

We, M/s., hereby designate M/s., being one of the partners of the Joint Venture, as the lead partner of the Joint Venture, to do on behalf of the Joint Venture, all or any of the acts, deeds or things necessary or incidental to the Joint Venture's bid for the contract, including submission of bid, participating in conferences, responding to queries, submission of information/ documents and generally to represent the Joint Venture in all its dealings with the Railway / DFCCIL or any other Government Agency or any person, in connection with the Bid/contract for the said work until culmination of the process of bidding till the contract agreement if successful, is entered into with the Dedicated Freight Corridor Corporation of India Limited and thereafter till the expiry of the contract agreement.

**To be executed by all the members of the JV except the lead member.*

The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executants(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.

We hereby agree to ratify all acts, deeds and things lawfully done by lead member, our said attorney, pursuant to this power of attorney and that all acts deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us/ Joint Venture.

Dated this the Day of 2023

.....
(Signature)

..... (Name in Block letters of Executants)
Seal of Company

Witness 1	
Name:	
Address:	
Occupation:	
Witness 2	
Name:	
Address:	
Occupation:	

END OF DOCUMENT
