



Tender No. CGM/DFCCIL/NOIDA UNIT/ELECTRICAL OHE
MAINTENANCE/2023/1

for

Name of Work: Maintenance of 2x25 kV High Rise Over Head Equipment on New Rewari - New Dadri section of DFCCIL including the connections to Indian Railways & ICD under CGM Noida Unit.

E-TENDER DOCUMENT

Employer:

**DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
Under MINISTRY OF RAILWAYS**

NOIDA OFFICE: -

Chief General Manager/Noida/DFCCIL
DFC Complex, Sector-145, Noida-201306, U. P.

Images from Rewari-Dadri section of Noida Unit.

Viaduct



Tunnel





DEEPCUT





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PART-I
CHAPTER-I

CHECK LIST OF DOCUMENTS TO BE
UPLOADED IN E-TENDER

PART-I
CHAPTER-I

CHECK LIST

Check List of items/documents pertaining to Bid to be uploaded by the bidder in E-Tender portal on or before the last Date & Time of Bid Submission	
Item No.	Items
1	Bid Security to be paid online through payment gateway provided at www.ireps.gov.in in the Account of Dedicated Freight Corridor Corporation of India Ltd., New Delhi as per clause no 1.3.6.2, Part-I, Chapter-III of Tender Document.
2	Cost of Bid Document to be paid online through payment gateway provided at www.ireps.gov.in in the account of Dedicated Freight Corridor Corporation of India Ltd., New Delhi on or before Schedule Date & Time of Submission of Bid as per clause no 1.3.6.1, Part-I, Chapter-III of Tender Document.
3	A declaration from the person having PoA (Power of Attorney) on the Letter Head of the Applicant/Bidder that they agree and abide by the bid documents and amendments thereof (if any) and would execute the work accordingly (Form No. 1A).
4	Format for Certificate to be submitted/uploaded by Tenderer along with the Tender Documents (Form No. 1B).
5	Power of Attorney of the person Authorized for signing/submitting the Tender (Form No. 22).
6	If applicable, the Power of Attorney for Authorized Signatory of JV Partners and for Lead Member of JV (Form No. 12 & 13 respectively)
7	Documents in support of their formation as Proprietary Firm/Partnership Firm/Company/Joint Venture/LLP/Registered Society/Registered Trust/HUF as per the requirement defined in Para 1.3.14 of Part-I, Chapter-III of Tender Documents and Additional documents required in case of participation of Joint Venture and Partnership Firm as per the requirement defined in Para-1.3.17 and 1.3.18 of Part-I, Chapter-III (Preamble and General Instructions to Tenderers) of Tender Document.
8	Integrity Pact Duly Signed by the Bidder (Form No. 19). The bidders are required to download the Integrity Pact as uploaded in the Tender Document & Sign the same put Rubber Stamp Seal and upload the signed copy on E-Tendering Website.
9	Submission of Tenderer's Credentials in accordance with Technical Eligibility Criteria defined in Para 1.3.12.1 (Preamble & General Instructions to Tenderer) of Part-I, Chapter-III of Tender Document in prescribed forms. (Form No. 2A/2AA)
10	Submission of Tenderer's Credentials in accordance with Financial Eligibility Criteria defined in Para 1.3.12.2 (Preamble & General Instructions to Tenderer) of Part-I, Chapter-III of Tender Document in prescribed forms. (Form No. 2B)
11	Submission of Tenderer's Credentials in accordance with Bid Capacity Eligibility Criteria defined in Para 1.3.12.2 (Preamble & General Instructions to Tenderer) of Part-I, Chapter-III of Tender Document in prescribed forms. (Form No. 2C), If applicable as per clause no 1.3.12.2, Part-I, Chapter-III of Tender Document
12	Applicant's Party Information Form (Form No. 2D)
13	Memorandum of Understanding (in case of JV) as per bid document. (Form No. 9)
14	In case of JV, Joint Venture agreement (Form No. 10)
15	Letter of participation from each partner of Joint Venture (JV) (Form No. 11)
16	Valid GST Registration, EPF Registration and PAN No. details

17	No Deviation Certificate (Form No. 23).
18	Tender Document with Digital Signature
19	Technical & Financial Bid to be filled and submitted on www.ireps.gov.in by following the steps available at E-Tender IREPS Portal.

Note: All the uploaded documents should be in readable, printable & legible form.

Important Notes:

- i. For Document mentioned at S. No. 1 of the checklist above, the E-Receipt of IREPS payment transaction for Bid Security (submitted by the Tenderer online on www.ireps.gov.in) shall be uploaded as attachment at E-Tender IREPS portal of IREPS.
- ii. For Document mentioned at S. No. 2 of the checklist above, the E-Receipt of IREPS payment transaction for Cost of Bid Document (submitted by the Tenderer online on www.ireps.gov.in) shall be uploaded as attachment at E-Tender IREPS portal of IREPS.
- iii. Document mentioned at S.No. 3 to 17 above of the Check list should be scanned and uploaded as attachment at E-Tender portal (www.ireps.gov.in). The detailed instructions of E-tendering can be read through website www.ireps.gov.in (Centre link provided on the home page).
- iv. Similarly, the document mentioned at S.No. 18 of the Check list should first be downloaded from E-Tender Portal (in PDF Format) and thereafter upload them to E-Tender IREPS Portal, through digital signature.
- v. For Document No. 19 of the Check list, Technical & Financial Bid to be filled and submitted on www.ireps.gov.in by following the steps available at E-Tender IREPS Portal

PART-I
CHAPTER-II

NOTICE INVITING E-TENDER

PART-I
Chapter-II

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
Tender No: CGM/DFCCIL/NOIDA UNIT/ELECTRICAL OHE MAINTENANCE/2023/1

NOTICE INVITING E-TENDER
National Competitive Bidding

Name of Work: Maintenance of 2x25 kV High Rise Over Head Equipment on New Rewari - New Dadri section of DFCCIL including the connections to Indian Railways & ICD under CGM Noida Unit.

- 1.2.1** Chief General Manager/Noida, Dedicated Freight Corridor Corporation of India Limited, DFC Complex, Sector-145, Noida-201306, U.P, India, invites E-Tenders in Single Stage Two Packet System on prescribed forms from Firms/Companies/Joint Ventures meeting requisite experience and financial capacity for execution of the following work:

Tender No.	CGM/DFCCIL/NOIDA UNIT/ELECTRICAL OHE MAINTENANCE/2023/1
Name of Work	Maintenance of 2x25 kV High Rise Over Head Equipment on New Rewari - New Dadri section of DFCCIL including the connections to Indian Railways & ICD under CGM Noida Unit
Employer/Client/Owner	Dedicated Freight Corridor Corporation of India Ltd. (DFCCIL), A Govt. of India (Ministry of Railways) Enterprises through Chief General Manager/Noida, Sector-145, Noida-201306, U.P.
Type of Tender	Open E-Tender (Single Stage Two Packet System)
Type of Contract	Works Contract
Total Estimated Cost	Rs. 3,35,50,849.00 (Rs. 2,84,34,355 + GST @ 18%)
Period of Contract	24 Months
Earnest Money Deposit	Rs. 3,17,800.00 (Rupees Three Lakh, Seventeen Thousand eight Hundred Only) to be paid online through payment gateway provided at www.ireps.gov.in in the account of Dedicated Freight Corridor Corporation of India Ltd., New Delhi.
Cost of Tender Document (Non-Refundable)	Rs 11,800.00 (Rs. 10,000.00/- + GST @ 18%) (Rs. Eleven Thousand Eight Hundred only) to be paid online through payment gateway provided at www.ireps.gov.in in the account of Dedicated Freight Corridor Corporation of India Ltd., New Delhi. Note: "No exemption is admissible for cost of bid document and shall not be claimed by bidder on the E-Tender Portal".
Validity of Offer	120 days
Retention Money/Security Deposit	5% of Contract Value (as per Clause No. 16 (1) of GCC)
Performance Bank Guarantee	Performance Guarantee (PG) has to be submitted within 21 (Twenty-One) days from the date of issue of Letter of Acceptance (LOA), amounting to 3% of the Contract Value (as per Clause No. 16 (4) of GCC).

E-Tendering Website	www.ireps.gov.in For any help, please refer "Learning centre under E-Tender: Works, 1. "Instructions to Contractors"" containing the detailed guidelines for E-Tendering available on www.ireps.gov.in and on Helpdesk of IREPS: 011-23761525.
Date & Time Schedule	
Date of Uploading of NIT/Tender Document (Online) on IREPS Portal	14.01.2023
Date of Tender Document Download/Sale (Online) from IREPS Portal	14.01.2023
Issue of Corrigendum, if any	On or before Fifteen Days from date of Tender Closing Date (on www.ireps.gov.in)
Tender Closing Date and Time	07.02.2023, 15.00
Date & Time of Opening of Technical Bid (Online)	07.02.2023, 15.30
Date & Time of Opening of Financial Bid (Online)	To be communicated later to only those bidders who are found technically qualified after closure of Technical Evaluation.
Representative/Contact Person of DFCCIL/Noida Unit	Shri B. Gowri Shankar Dy. Project Manager/Elec Dedicated Freight Corridor Corporation of India Ltd. (Noida Unit) DFCCIL Complex, Sector-145, Noida-201306, U.P Mobile No: 7799655530 E-MAIL ID: gshankar@dfcc.co.in
Address for Opening of Tender	Chief General Manager Office Dedicated Freight Corridor Corporation of India Ltd. (Noida Unit) DFC Complex, Sector-145, Noida-201306, U.P Telephone: 0120-3680888

- 1.2.2** Eligibility shall be assessed of Applicants, fulfilling the technical capability and competence as well as for financial and organizational resources as specified in the Tender Document.
- 1.2.3** Tender document can be viewed & obtained/downloaded from www.ireps.gov.in w.e.f. . The tender document shall have to be purchased in the name of Firms/Company/Joint Venture and can be downloaded from website www.ireps.gov.in. In case tenderer(s) do/does not deposit the cost of tender document (non-refundable) along with the submission of the tender, their tender shall not be opened or considered. Tenderers are advised not to make any correction/addition/alteration in the downloaded tender documents. If any such in downloaded tender documents are made, such correction/addition/alteration shall be treated as null and void.
- 1.2.4** DFCCIL may issue addendum(s)/corrigendum(s) to the tender documents. In such cases the addendum(s)/corrigendum(s) shall be issued and placed on www.ireps.gov.in. The tenderers who have purchased or 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/uploaded duly stamped and signed along with the submission of tender.
- 1.2.5** The tender documents shall be submitted in online mode only through website www.ireps.gov.in in two packets only, viz Packet-A containing TECHNICAL BID and Packet B

containing FINANCIAL BID.

Bidder shall submit the Tender document cost & EMD (as mentioned in NIT) on or before scheduled closing date & time of submission of bid. Financial Bid (as specified in “Financial Bid” in Tender Document) to be filled and submitted on E-Tender portal www.ireps.gov.in by following the steps available at E-Tender IREPS Portal. Tender shall be submitted as per “General Instructions to Tenderers” forming as part of the complete tender documents. Bidder shall submit the Bid Security & Tender document cost on or before schedule date & time of submission of bid.

It is mandatory for all Tenderers to have Class-III Digital Signature (or as specified in IREPS Portal) Certified from any of the Licensed Certifying Agencies (‘CA’) to participate in E-Tendering of DFCCIL, (Tenderer can see the list of Licensed CAs from the link www.cca.gov.in **in the name of the person who will submit the Online tender and is authorized to do so.**

- a. To participate in the E-Tender, it is mandatory for the bidders to get themselves registered with the IREPS (www.ireps.gov.in) and to have user ID & password. www.ireps.gov.in is the only website for submission of tender.

Tender shall be submitted through Online mode only at www.ireps.gov.in. Tender submitted by any other mode will not be accepted.

- b. Tenders shall be opened through process of E-tendering on/after scheduled date & time in the presence of the tenderers or their authorized representatives intending to attend the opening.

Bid of the bidders shall be opened through process of e-tendering.

The sequence of opening shall be:

- i) Earnest Money Deposit (EMD) and Tender Document Cost
- ii) Technical Bid.
- iii) Financial Bid (at a later stage after scrutiny & finalization of acceptable Technical Bids)

Tender shall be submitted as per “General Instructions to Tenderers” forming part of the complete tender documents.

- c. **Any tender received without Bid Security and Cost of Tender Documents in the form as specified in the Tender Documents shall not be considered and shall be summarily rejected.**
- d. 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.
- e. Tenderers may note that they are liable to be disqualified at any time during tendering process in case, any of the information furnished by them is not found to be true. Bid Security of such tenderers shall be forfeited & the decision of DFCCIL in this regard shall be final and binding.
- f. DFCCIL reserves the right to pre-qualify the bidder(s) provisionally based on the documents submitted by them in technical bid. Financial bids of only those bidders would be opened, whose technical bids are found acceptable. In the event of any document being found false (at a later stage), the provisional qualification shall stand withdrawn, and the next lower bidder shall automatically come to the position of such disqualified bidder. Also, action against such disqualified tenderer shall be taken as per the provisions of the Tender.
- g. Information as required as per various Forms of tender document should be submitted by the tenderers strictly as per formats.
- h. The validity of offer shall be at least 120 days from the date of opening of the tender.

- i. Transfer of the tender document purchased by intending tenderer to another tenderer is not admissible. Tenderer can submit tenders only on the documents purchased /downloaded from website: www.ireps.gov.in by them.
- j. Tenderers must read all instructions regarding E-Tendering process as mentioned in “Learning centre under E-Tender: Works”, 1. “Instructions to Contractors” available on www.ireps.gov.in.
- k. Tenderers are advised to regularly visit the E-Tender Portal (www.ireps.gov.in) for information regarding tender document, corrigendum, addendum (if any) etc.
- l. The rates quoted by the contractor are deemed to be inclusive of site clearance, setting outwork, profile, setting lay out on ground, establishment of reference benchmark(s), installing various signage, taking spot levels, survey with total station, construction of all safety and protection devices, compulsory use of helmet and safety shoes, and other appropriate safety gadgets by workers, imparting continuous training for all the workers, barriers, preparatory works, construction of clean, hygienic and well ventilated workers housings in sufficient numbers working during monsoon or odd season, working beyond normal hours, working at all depths, height, lead, lift, levels and location etc. and any other unforeseen but essential incidental works if required to complete this work. Nothing extra shall be payable on this account and no extension of time for completion of work shall be granted on these accounts.
- m. In the estimated value of tender, GST @ 18% has been taken on the basic value. The basic value is inclusive of all taxes, duties and levies except GST. The % (above/below/at par) rates quoted by the tenderer shall apply on the basic value. The GST as legally leviable and payable by the Bidder under the provisions of applicable law/act shall be paid extra by DFCCIL.

Therefore, the Bidders should quote their rates after considering the Input Tax Credits on their input materials and services. Hence, Bidders should ensure that, full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting their rates.

If any cost implication to DFCCIL is occurred on GST account because of Contractor’s default in filing of GST returns such as no GST number, wrong GST number, mismatch of GST number etc., the same shall be recovered from the Contractor’s bill or any other pending/future bill.
- n. **Price Variation Clause (PVC) is not applicable for this work.**
- o. **Joint Ventures are not applicable for this work.**
- p. **Bid Capacity (Form no 2C) is not applicable for this work.**
- q. **Advances to Contractor-**
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 recovery of such advances shall be made as per manners prescribed in Clause 46.4 of the Standard General Conditions of Contract. As the value of this tender is less than Rs. 50 Cr., hence, any type of advances to Contractor is not admissible.

**Chief General Manager/Noida
for & on behalf of DFCCIL**

PART-I
CHAPTER-III

PREAMBLE & GENERAL INSTRUCTIONS TO
TENDERERS

PART-I
Chapter-III

PREAMBLE & GENERAL INSTRUCTIONS TO TENDERERS

1.3.1 Introduction

(i) General

Ministry of Railways (MoR) established the Dedicated Freight Corridor Corporation of India Limited (DFCCIL), a Schedule “A” Public Sector Undertaking wholly owned by Ministry of Railways, Govt. of India to undertake Planning & Development, Mobilization of Financial Resources, Construction, Maintenance and Operation of the Dedicated Freight Corridor Project. DFCCIL was incorporated as a Company under the Companies Act 1956 on 30th October 2006.

This company is now actively engaged in the implementation of Computerized Multi Modal High Axle Load Dedicated Freight Corridor Project between Delhi-Mumbai under the Western DFC Corridor and Ludhiana-Delhi-Kolkata under the Eastern DFC Corridor.

The DFC project will also restore the Indian Railway’s competitive strength in the freight transportation market and emerge as the major low carbon and energy efficient transport system in the country. It will drive the establishment of industrial corridors and logistic parks along its alignment and play a crucial role in supporting India’s growing economy.

Scope of Work of this Tender:

Name of Work: Maintenance of 2x25 kV High Rise Over Head Equipment on New Rewari - New Dadri section of DFCCIL including the connections to Indian Railways & ICD under CGM Noida Unit.

1.3.2 General Instructions (for only E-Tendering System):

Submission of Online Bids is mandatory for this Notice Inviting Tender. E-Tendering is a new methodology for conducting Public Procurement in a transparent and secured manner. Suppliers/Vendors will be the biggest beneficiaries of this new system of procurement. An E-Tendering Portal of Dedicated Freight Corridor Corporation of India Limited (DFCCIL) introduced for the process of E-Tendering which can be accessed on <http://www.ireps.gov.in> (refer in the BID DOCUMENTS).

Words in capital and not defined in this document shall have the same meaning as in “BID DOCUMENT”.

A. ACCESSING/OBTAINING/PURCHASING PROCESS OF TENDER DOCUMENT:

- (i) It is mandatory for all the Tenderers to have Class-III Digital Signature or as specified by IREPS (in the name of person who will sign the Bid and will submit the online tender and is authorized to do so) certified from any of the licensed certifying agency (“CA”) to participate in E-Tendering of DFCCIL [Tenderers can see the list of licensed CAs from the link www.cca.gov.in].
- (ii) To participate in the E-Tender, it is mandatory for the Tenderers to get themselves registered with the IREPS (www.ireps.gov.in) and to have user ID & password.
- (iii) www.ireps.gov.in is the only website for submission of online tender. The detailed instructions of E-Tendering can be read through website www.ireps.gov.in on “Learning Centre under E-Tender: Works, 1. Instructions to Contractors” containing the detailed guidelines for E-Tendering.
- (iv) Tender shall be submitted through online mode only at www.ireps.gov.in. Tender submitted by any other mode will not be accepted.
- (v) All the required documents (legible) as mentioned in Check list have to be uploaded along with the offer on www.ireps.gov.in.

- (vi) The Addendum/Corrigendum, if any; shall be hosted on the website www.ireps.gov.in only.
- (vii) The supporting documents for Eligibility Criteria are essentially required to be uploaded on the website www.ireps.gov.in as bid shall be accepted through Online mode only.
- (viii) Tenderers are required to give Un-Conditional offers. A Conditional Offer is liable to be rejected. DFCCIL reserves the right to modify, expand, restrict, cancel, reject and re-float tender without assigning any reasons whatsoever.
- (ix) The Tenderers shall closely peruse all the clauses, instructions, terms and conditions, scope of work, specification etc. as indicated in the Tender Document before quoting the rates. If the Contractor has any doubt about the meaning of any portion of the Tender Document or find discrepancies/omissions in the tender document issued or required clarification, he shall at once contact the authority inviting the tender for clarification at least twenty days before the due date of submission of the tender.
- (x) Bid document shall be accompanied by all the documents required to be submitted as specified in the Tender Document along with all Addendums and Corrigendum.
- (xi) All Bids shall be submitted in accordance with the instructions contained in the Tender Document (Bid Document). Non-Compliance of any of the instructions contained in the Tender Document is liable in Bid being rejected.
- (xii) After Award of Contract to the Successful Contractor, if it is observed that there is any discrepancy or ambiguity about any terms and conditions mentioned in the Tender Document, the interpretation of same given by DFCCIL shall be considered as final and binding.
- (xiii) Order of precedence of Documents: In Tender/Contract, in case of any difference, contradiction, discrepancy, with regard to conditions of tender/contract, specifications, drawings, bill of quantities etc., forming part of the tender/contract, the following shall be the order of precedence:
 - a. Letter of Award
 - b. Bill(s) of Quantities.
 - c. Special Conditions of Contract.
 - d. Technical Specifications as given in tender documents.
 - e. Drawings, if any.
 - f. Indian Railways Standard General Conditions of Contract updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents.
 - g. CPWD Specifications updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents, if applicable in the contract.
 - h. Relevant B.I.S. Codes updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents

For example, if any item is found common in Special Conditions of contract and General Conditions of Contract then the provision given in Special Conditions of Contract will prevail over General Conditions of Contract for the same item.
- (xiv) Contractor must fill up all the schedules and furnish all the required information on e-mode as per the instructions given in various sections of the Tender Document.
- (xv) Submission of a tender by a tenderer implies that he had read all the tender document including amendments/corrigendum if any, visited the site and made himself aware of the scope of the work to be done, local conditions and other factors having any bearing on the execution of the work.
- (xvi) DFCCIL reserves all rights to reject any tender including of those tenders who fail to comply with the instructions without assigning any reason whatsoever and does not bind itself to accept the lowest or any specific tender. The decision of DFCCIL in this regard shall be final

and binding. Any failure on the part of the tenderer to observe the prescribed procedure and any attempt to canvass for the work will prejudice the tenderer's bid.

- (xvii) Tenderers may note that they are liable to be disqualified at any time during tendering process in case any of the information furnished by them is not found to be true. Bid Security of such tenderer shall be forfeited. The decision of the DFCCIL in this regard shall be final and binding.
- (xviii) Evaluation of tenders will be made on the basis of fulfilment of Eligibility Criteria mentioned in the Bid Document. However, DFCCIL reserves the right to seek any clarification from the Contractor.

B. PREPARATION & SUBMISSION OF TENDER:

As per Important Notes of Checklist, Part-I, Chapter-I of Tender Document.

C. MODIFICATION/SUBSTITUTION/WITHDRAWAL OF BIDS:

- (i) Once bid is submitted, the tenderer will not be allowed to withdraw the offer.
- (ii) The tenderer can however modify their bid till closing time of tender. In case of revising the bid, the revised bid will supersede earlier bids and the latest bid will be considered for evaluation.

D. PRE-BID MEETING: Not Applicable.

E. OPENING AND EVALUATION OF BIDS:

- (i) Opening of Bids: As per Clause no 1.2.5 (b), Part-I, Chapter-I of Tender Document.
- (ii) For participating in the tender, the authorized signatory holding Power of Attorney shall be the Digital Signatory.
- (iii) The Authority will subsequently examine and evaluate the Bids in accordance with the provisions set out in the BID DOCUMENTS.

DISCLAIMER

The Bidder must read all the instructions in the BID DOCUMENTS and ensure to complete the tender submission process in time as www.ireps.gov.in will stop accepting any online tender after tender closing due date and time as specified in the NIT.

The agency may visit the site on any working day to assess the site conditions and scope of work before submitting their offer.

1.3.3 About the Tender:

Cost of the Work: The Estimated Cost of the Tendered Work is approximately Rs. 3,35,50,849.00 (Rs Three Crore Thirty Five Lakh Fifty Thousand Eight Hundred Forty Nine only) inc GST @ 18%

- (i) The tenderer(s) 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, DFCCIL's decision in this connection shall be final and binding.

Part-I, Chapter-IV and V of the tender document contains General Conditions of Contract and Special Conditions of Contract specific to this work and shall be applicable in the Contract.

1.3.4 Provision of Make in India Policy 2017 issued by Govt. of India, as amended time to time, shall be

followed for consideration of Tender.

1.3.5 TENDER FORM

1. Instructions to Tenderers and Conditions of Tender: The following documents form part of Tender/Contract:
 - (a) Tender Forms
 - (b) Special Conditions/Specifications (enclosed)
 - (c) Bill of quantities (enclosed)
 - (d) Standard General Conditions of Contract (GCC)-April-2022 of Indian Railways as amended/corrected upto latest correction slips.
2. 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.
3. **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.

1.3.6 Sale & Submission of Tender Document:

1.3.6.1 Cost of Tender Document:

Tender document is available on www.ireps.gov.in and the same can be downloaded and used as tender documents for submitting the offer. The cost of tender document as prescribed in the NIT shall be deposited online through payment gateway of www.ireps.gov.in by the tenderer.

1.3.6.2 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 'Start-ups' 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.

- (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 fulfilment 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 DFCCIL shall not be responsible for any loss or depreciation that may happen thereto while in their possession, nor be liable to pay interest thereon.
- (d) The Bid Security shall be paid online through e-payment gateway provided at ww.ireps.gov.in in the account of Dedicated Freight Corridor Corporation India Ltd. New Delhi.
- (e) Subject to exemptions provided under para 1.3.6.2 above, the tender must be accompanied by a Bid Security as mentioned in tender documents, failing which the tender shall be summarily rejected.
- (f) The Tenderer(s) shall keep the offer open for a minimum period of 120 days 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 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 by the DFCCIL.

1.3.6.3 Clause applicable for tender documents downloaded from Internet:

Tenderer/s are free to download tender documents at their own cost, for the purpose of perusal as well as for using the same as tender document for submitting their offer. Master copy of the tender document will be available in the office of Chief General Manager/ Noida Unit.

After award of the work, an agreement will be drawn up. The agreement shall be prepared based on the master copy available in the office of Chief General Manager, Dedicated Freight Corridor Corporation of India Limited, DFC Complex, Sector-145, Noida-201306, U.P, India and not based on the tender documents submitted by the Tenderer. In case of any discrepancy between the tender documents downloaded from the internet and the master copy, later shall prevail and will be binding on the Tenderers. No claim on this account shall be entertained.

- 1.3.6.4** Bid must be submitted online duly completed in all respect. 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 www.ireps.gov.in. The detail procedure of tender opening will be as per Para 1.3.2 (e) above.
- 1.3.6.5** 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.
- 1.3.6.6** Tender document along with all Corrigendum(s)/Addendum(s) is to be digitally signed by the tenderers or such person/s on his/their behalf who is/are legally authorized to sign for him/them.
- 1.3.6.7** Tenders containing erasures and/or alteration of the tender documents are liable to be rejected. Any correction made by Tenderer(s) in his/their entries must be attested by him/them.
- 1.3.6.8 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 with 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 Engineer/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. Tenders will ensure that full benefit of Input Tax (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 Railway/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 railway/DFCCIL 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 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.

(d) 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 "Form-1B". 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.

1.3.7 Right of DFCCIL to Deal with Tenders:

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 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.

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.

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.

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.

1.3.8 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.

1.3.9 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 may 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.

1.3.10 Execution of Contract Agreement:

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, Sector-145, Noida-201306, as the case may be, or if tenderer is a firm or corporation, a duly authorized representative shall appear and execute the contract agreement within 07 days of notice from DFCCIL that the contract agreement is ready. The Contract Agreement shall be entered into by DFCCIL only after submission of valid Performance Guarantee by the Contractor. Failure to do so shall constitute a breach of the agreement affected by the acceptance of the tender. In such cases, DFCCIL may determine that such tenderer has abandoned the contract and there upon his tender and acceptance thereof shall be treated as cancelled and the DFCCIL shall be entitled to forfeit the full amount of the earnest money and other dues payable to the Contractor under this Contract. The failed Contractor shall be debarred from participating in the re-tender for that work.

1.3.11 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).

1.3.12 Eligibility Criteria:

1.3.12.1 Technical Eligibility Criteria

The Name of the Work to be executed and its Estimated Cost is as below:

S. No.	Work	Advertised Value of Tender [Incl. of GST]
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1.	Maintenance of 2x25 kV High Rise Over Head Equipment on New Rewari - New Dadri section of DFCCIL including the connections to Indian Railways & ICD under CGM Noida Unit.	Rs. 3,35,50,849.00 (Rs Three Crore Thirty Five Lakh Fifty Thousand Eight Hundred Forty Nine only) inc GST @ 18%
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The Tenderer must have successfully 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 tender, or
- Two similar works each costing not less than the amount equal to 40% of advertised value of tender, or
- One similar work each costing not less than the amount equal to 60% of advertised value of tender.

The definition of **“Similar Work”** for the above stated work is as below:

“Rehabilitation/Maintenance/Design Supply Erection Testing Commissioning of 25/2X25 kV AC OHE System.”

1.3.12.2 ELECTRICAL CONTRACTOR LICENSE—

- a. The Contractor should have valid A-Class license.
- b. 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 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 Item 1.3.12.1:

Work experience certificate from Private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, 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.

1. It shall be the responsibility of the tenderer to submit proper credential certificate(s) from the client stating clearly the value of work and other requisite details etc., as defined in Para 1.3.12 above.
2. Value of complete work done by a member in an earlier JV Firm shall be reckoned only to the extent of the concerned member's share in that JV firm for the purpose of satisfying his or her compliance to the above-mentioned technical eligibility criteria in the tender under consideration.
3. In case the tenderer(s) is a partnership firm, the work experience shall be in the name of partnership firm only.
4. For judging the technical eligibility works which had been executed for the Government/Semi-Government Organization/PSU/Public Listed Company (as mentioned in the Note of Para 1.3.12 above) will only be considered.

1.3.12.2 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 certificate to this effect as per standard format "Form-2B" (UDIN certificate from Chartered Accountant), along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/Certificate from Chartered Accountant duly supported by Audited Balance Sheet.

Note:

1. Contractual payments received by a Member in an earlier JV firm shall be reckoned only to extent to the concerned member's share in that JV Firm for the purpose of satisfying compliance of the above-mentioned financial eligibility criteria in tender under considerations.
2. In case the tenderer/s is a partnership firm, the turnover etc., shall be in the name of partnership firm only.
3. **Bid Capacity (Not Applicable for this work)**
For tenders having advertised value more than Rs 20 crore wherein eligibility criteria include 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.

1.3.12.3 Credentials of Tenderer

The tenderer shall submit documents testifying tenderer's previous experience and financial status in support of their technical and financial eligibility, which are acceptable to DFCCIL, along with the tender:

- (a) For Technical eligibility criteria, the details will be submitted in "Form No. 2A/2AA" along with supporting documents such as 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.
- (b) For Financial eligibility criteria, the details will be submitted in "Form No. 2B" along with supporting documents such as Audited Balance Sheet duly certified by the Chartered Accountant regarding contractual payments received in the past.
- (c) For Bid capacity criteria, the details will be submitted in "Form No. 2C" along with supporting documents – **Not Applicable for this work.**
- (d) Applicant's Party Information Form "Form No. 2D"
- (e) 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 "Form No. 1B". 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.
- (f) The tenderer shall submit the completion certificates/certified completion certificates from the client(s) or Photostat of original certificates of client. These certificates should indicate the details of works carried out and successful commissioning of similar type of work executed by the tenderer. Completion certificate from Govt. organisation/Semi Govt. organizations/PSUs/Public Listed Company (as mentioned in Note for Item 1.3.12.1) will only be accepted. The certificate from Private individual/Private Company for whom such works are executed shall not be accepted. In case, the work is executed for Public Listed Company as mentioned above, copy of work order, bill of Quantity, 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 shall be submitted.

- (g) Tenderer shall submit a statement of contractual payments received during last three financial years and current financial year on the prescribed Performa as per "Form No. 2B" duly certified by Chartered Accountant in the form of UDIN Certificate. The above certificate shall be based on the Form 16A issued by the Employer i.e., the certificate of deduction of tax at source as per Income Tax Act, 1961 and Form 26AS issued by Income Tax Department. The photocopies of Form 16A/Form 26AS shall be enclosed or a certificate from auditor or audited balance sheet certified by Chartered Accountant clearly indicating the contractual amount received. DFCCIL may invite the Tenderer for offline/online verification of Form 16A & Form 26AS.
- (h) 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 thereunder.
- (i) (i) 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 upto five years.
(i) 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 upto five years.

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

(i) The tenderer shall be considered disqualified/in-eligible if:

- (a) The Tenderer or any of its partners and/or subcontractors included in the tender has been banned for business with Ministry of Railways/DFCCIL along with any of its attached and subordinate offices through an order issued by Ministry of Railways as per list available on Web site (<http://www.indianrailways.gov.in/railwayboard>) of Railway Board pertaining to banning of Business, with the banning being valid as on the date of submission of the Tender.
- (b) The Tenderer or any of its partners has suffered bankruptcy/insolvency or it is in the process of winding-up or there is a case of insolvency pending before any Court on the deadline of submission of application.

1.3.13 Execution of Contract Documents:

The successful Tenderer(s) shall be required to execute an agreement with the DFCCIL for carrying out the work according to Standard General Conditions of Contract, Special Conditions/Specifications annexed to the tender and other specifications/drawings as mentioned in tender form.

1.3.14 Documents to be submitted along with the 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:

- **Sole Proprietorship Firm:**

- (i) All other documents in terms of explanatory notes in Clause 1.3.12 of the Preamble.

- **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 explanatory notes in Clause 1.3.12 of the Preamble.

- **Partnership Firm:**

(i) All documents as mentioned in Clause 1.3.18 of the Preamble.

- **Joint Venture (JV):**

(i) All documents as mentioned in Clause 1.3.17 of the Preamble.

- **Company registered under Companies Act 2013:**

- The copies of MOA (Memorandum of Association)/AOA (Articles of Association) of the Company
- A copy of Certificate of Incorporation
- 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.
- All other documents in terms of explanatory notes in Clause 1.3.12 of the Preamble.

- **LLP (Limited Liability Partnership):**

- A copy of LLP Agreement
- A copy of Certificate of Incorporation
- 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.
- An undertaking by all partners of the LLP that they are not blacklisted or debarred by DFCCIL/Railways 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.
- All other documents in terms of explanatory notes in Clause 1.3.12 of the Preamble.

- **Registered Society & Registered Trust:**

- A copy of Certificate of Registration
- A copy of Memorandum of Association of Society/Trust Deed
- A copy of Power of Attorney in favour of the individual to sign the tender documents and create liability against the Society/Trust.
- A copy of Rules & Regulations of the Society.
- All other documents in terms of explanatory notes in Clause 1.3.12 of the Preamble.

(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 Railway's/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/Partnership firm etc., 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/Railways may, however, recognize such power

of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.

- 1.3.15** 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.

1.3.16 Employment/Partnership etc. of Retired Railway 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 Railways/DFCCIL owned and administered by the President of India for the time being, OR

ii) being partnership firm / joint venture (JV) / registered society / registered trust etc have as one of its partners/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 railways/DFCCIL owned and administered by the President of India for the time being, and now in

his employment, then the tenderer will ensure that retired Engineer or retired gazetted officer had retired from government service at least 1 year prior to the date of his employment with tenderer and in case he had retired from service within a year then he possesses the requisite permission from the President of India or any officer, duly authorized by him in this behalf, to get associated with the tenderer.

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 railway/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 1.3.16 (a), (b) and (c) above has not been furnished, contract is liable to be dealt in accordance with provision of Clause 62 of Standard General Condition of Contract.

1.3.17 JOINT VENTURE (JV) IN WORKS TENDERS: (NOT APPLICABLE FOR THIS WORK)

Participation of Joint Venture (JV) in Works Tender: This para shall be applicable for works tenders wherein tender documents provide for the same.

- 1.3.17.1** Separate identity/name shall be given to the Joint Venture.
- 1.3.17.2** Number of members in a JV shall not be more than three, if the work involves only one component and shall not be more than five, if the work involves more than one component. 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%.
- 1.3.17.3** 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.
- 1.3.17.4** 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.
- 1.3.17.5** 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
- 1.3.17.6** 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. (The MoU format for this purpose is enclosed along with the tender).
- 1.3.17.7** 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.
- 1.3.17.8** Approval for change of constitution of JV shall be at the sole discretion of the Railway/DFCCIL. The constitution of the JV shall not normally be allowed to be modified after submission of the tender 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.

- 1.3.17.9** 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.
- 1.3.17.10** 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. (if any) shall be accepted only in the name of the JV and no splitting of guarantees amongst the members of the JV shall be permitted.
- 1.3.17.11** 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 along with 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 Railways/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 railway 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:
- 1.3.17.11.1** Joint and Several Liability: Members of the entity to which the contract is awarded, shall be jointly and severally liable to the Railway/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 Railways/DFCCIL during the course of execution of the contract or due to non-execution of the contract or part thereof.
- 1.3.17.11.2** 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.
- 1.3.17.11.3** Governing Laws: The Registered Entity shall in all respect be governed by and interpreted in accordance with Indian Laws.
- 1.3.17.12** 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.
- 1.3.17.13** 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 Railway/DFCCIL in respect of the said tender/contract.
- 1.3.17.14** Documents to be enclosed by the JV along with the tender:
- 1.3.17.14.1** In case one or more of the members of the JV is/are partnership firm(s), following documents shall be submitted:
- A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar.
 - 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,
 - 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.

- An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways/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.

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

- 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.

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

- A copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement,
- The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company
- A copy of Certificate of Incorporation
- 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.

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

- A copy of LLP Agreement
- A copy of Certificate of Incorporation of LLP
- A copy of resolution passed by partners of LLP firm, permitting the Firm to enter into a JV agreement
- 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.
- An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways/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.

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

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

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

1.3.17.15.1 Technical Eligibility Criteria

For works without composite components:

The technical eligibility for the work as per para 1.3.12.1 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 1.3.12.1 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.

1.3.17.15.2 Financial Eligibility Criteria

The JV shall satisfy the requirement of “Financial Eligibility” mentioned at para 1.3.12.2 above. The “financial capacity” of the lead partner of JV shall not be less than 51% of the financial eligibility criteria mentioned at para 1.3.12.2 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.

1.3.18 Participation of Partnership Firms in works tenders:

1.3.18.1 The Partnership Firms participating in the tender should be legally valid under the provisions of the Indian Partnership Act.

1.3.18.2 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 prior to date of tender opening as per the Indian Partnership Act, prior to submission of tender.

1.3.18.3 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.

1.3.18.4 Once the tender has been submitted, the constitution of the firm shall not normally be allowed to be modified/alterd/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 Railways/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 Railways/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 Railway/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.

1.3.18.5 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.

1.3.18.6 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.

- 1.3.18.7** 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.
- 1.3.18.8** 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.
- 1.3.18.9** In case the Letter of Acceptance (LOA) is issued to a partnership firm, the following undertakings 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 Railway/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 Railway/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/altered/ 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 Railway/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 Railway/DFCCIL.
- 1.3.18.10** 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:
- A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar.
 - A notarized or registered copy of Power of Attorney in favor of the individual to tender for the work, sign the agreement etc. and create liability against the firm.
 - An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways/DFCCIL or any other Ministry / Department of the Govt. of India from participation in tenders/Contracts as on the date of opening of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Concealment / wrong information in regard to above shall make the bid ineligible or the contract liable for determination under Clause 62 of the Standard General Conditions of Contract.
- 1.3.19 Duration of the Contract:** The duration of Contract shall be 24 Months (Twenty-Four Months). Time is the essence of contract. The contract or shall be required to maintain steady and regular progress to the satisfaction of the Engineer/DFCCIL to ensure that the work will be completed in all respects within the stipulated time.
- 1.3.20** 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 Bid Security of such tenderers shall also be forfeited.
- 1.3.21 Quantum of Work and Materials:** The indicative schedule of quantities of various items of works is included in Form Nos. 3 & 4 of the tender document.
- 1.3.22 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.

1.3.23 Schedule of Prices: The Schedule as given in the Tender Document list out the Schedule of Prices of various items. Based on these, the total tender value has also been worked out.

1.3.24 Performance Guarantee: Refer Clause No. 16(4) of GCC-2022 read in spirit of DFCCIL Letter No. HQ-ENWC/CON1(POLICY)/1/2020 dt. 28.12.2020, Railway Letter No. 2020/CE-I/CT/3E/GCC/Policy dt. 20.11.2020 and OM No. F/914/2020-PPD dt. 12.11.2020 and OM No. F.9/4/2020-PPD dt. 30.12.2021.

1.3.25 The tenderer shall furnish information for making payment through ECS/NEFT/RTGS (Form No. 8).

1.3.26 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,".

1.3.27 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's 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, staff quarters etc.

1.3.28 The rates quoted by the contractor are deemed to be inclusive of site clearance, setting outwork, profile, setting lay out on ground, establishment of reference benchmark(s), installing various signage, taking spot levels, survey with total station, construction of all safety and protection devices, compulsory use of helmet and safety shoes, and other appropriate safety gadgets by workers, imparting continuous training for all the workers, barriers, preparatory works, construction of clean, hygienic and well ventilated workers housings in sufficient numbers working during monsoon or odd season, working beyond normal hours, working at all depths, height, lead, lift, levels and location etc. and any other unforeseen but essential incidental works required to complete this work. Nothing extra shall be payable on this account and no extension of time for completion of work shall be granted on these accounts.

In the estimated value of tender, GST @ 18% has been taken on the basic value. The basic value is inclusive of all taxes, duties and levies except GST. The % (above/below/at par) rates quoted by the tenderer shall apply on the basic value. The GST as legally leviable and payable by the Bidder under the provisions of applicable law/act shall be paid extra by DFCCIL.

Therefore, the Bidders should quote their rates after considering the Input Tax Credits on their input materials and services. Hence, Bidders should ensure that, full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting their rates.

If any cost implication to DFCCIL is occurred on GST account because of Contractor's default in filing of GST returns such as no GST number, wrong GST number, mismatch of GST number etc., the same shall be recovered from the Contractor's bill or any other pending/future bill.

1.3.29 Price Variation Clause (PVC) is not applicable for this work

1.3.30 Advances to Contractor: 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 recovery of such advances shall be made as per manners prescribed in Clause 46 (4) of the Standard General Conditions of Contract. As the value of this tender is less than Rs. 50 Cr., hence, any type of advances to contractor is not admissible under this work.

1.3.31 Contract Value: The contract value shall be inclusive of GST and all taxes and duties including ESIC, PF, Conditions of Contract contribution & all other statutory taxes and levies (if any) applicable to the Contractors/Workers etc (as applicable).

1.3.32 Taxes, Duties etc.:

- GSTIN of DFCCIL will be provided to the contractor along with the Letter of Acceptance (LOA).
- Payment to the contractor will be subjected to TDS as per rules enforce from time to time. The tax deduction at source (TDS) shall be done as per the provisions of Income Tax Act & GST, as amended from time to time and a certificate to this effect shall be provided to the contractor by the DFCCIL.
- Contractor shall submit GST compliant tax invoice containing (GSTIN of DFCCIL) and all the particulars as stipulated under invoice rules of GST law. Payment shall be made to the contractor only after submission of GST compliant Tax Invoice.
- Increase /decrease in rate of existing GST or cess on GST for Works Contract shall be dealt as per Para37 of GCC (Part-1, Chapter-IV of Tender document).
- GST as actual, will be reimbursed only after the contractor has submitted the proof of having actually paid the above taxes/charges.

PART- I
CHAPTER- IV

GENERAL CONDITIONS OF CONTRACT

PART-I
CHAPTER IV

GENERAL CONDITIONS OF CONTRACT

DEFINITIONS AND INTERPRETATION

- 1. (1) Definitions:** In these General conditions of Contract, the following terms shall have the meaning assigned hereunder except where the context otherwise requires:
- (a) **“DFCCIL”** shall mean Dedicated Freight Corridor Corporation of India Ltd, a Govt. of India Enterprise (under Ministry of Railways) and a company incorporated under the provisions of the Companies Act, 1956 having its registered office at 5th Floor, Supreme Court Metro Station Complex, New Delhi-110001 represented through its Managing Director or CGM/GM (hereinafter referred to as “DFCCIL”) which expression shall, unless repugnant to the context, be deemed to include its successors and assigns.
 - (b) **“MD/DFCCIL”** shall mean the officer in-charge of the General Superintendence and Control of the DFCCIL and shall mean and include their successors, of the successor of DFCCIL (hereinafter referred to as “MD/DFCCIL”).
 - (c) **“CGM”** shall mean the officer in-charge of the CGM Unit of DFCCIL and shall also include GM(Co) of DFCCIL.
 - (d) **“Engineer”** shall mean Dy.CPM/DFCCIL or any other superior official of DFCCIL or PMC appointed by DFCCIL.
 - (e) **“Engineer’s Representative”** shall mean the PM/Dy.PM/APM/Sr. Executive/Executive in direct charge of the work and shall include appointed by the DFCCIL and shall mean and include the Engineer’s Representative of the successor DFCCIL.
 - (f) **“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 and shall include their executors, administrators, and successors and permitted assigns.
 - (g) **“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 CPWD 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.
 - (h) **“Works”** shall mean the works to be executed in accordance with the contract.
 - (i) **“Specifications”** shall mean the Standard Specifications for Materials & Works of DFCCIL as specified by DFCCIL under the authority of the CGM or as amplified, added to or superseded by Special Specifications, if any.
 - (j) **“Standard Schedule of Rates”** shall mean the Schedule of Rates adopted by DFCCIL which includes:
 - 1. “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 Railway/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.

2. IR USSOR-2019 & Indian Railway's Specifications, Codes & Manuals such as IR Works Manual, Bridge Manual, P. Way Manual, Engineering Code, IRSEM, etc.

- (k) **"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.
- (l) **"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.
- (m) **"Temporary Works"** shall mean all temporary works of every kind required for the execution completion and/or maintenance of the works.
- (n) **"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 DFCCIL for the purpose of the Contract.
- (o) **"Period of Maintenance"** shall mean the specified period of maintenance from the date of completion of the works, as certified by the Engineer.
- (p) **"Contractor's authorized Engineer"** shall mean a graduate Engineer or equivalent, having experience in the relevant field of construction work involved in the contract, duly approved by Engineer.
- (q) **"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.
- (r) **"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 & 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 or the contract.

GENERAL OBLIGATION

2. (1) **Execution Co-Relation and Intent of Contract Documents:** The contract documents shall be signed in triplicate by the DFCCIL and the Contractor. The contract documents are complementary, and what is called for by any-one 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 the proper execution of work. Materials or work 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 one CGM unit to another CGM or vice versa while Contract is in subsistence, the Contract shall be binding on the Contractor and the Successor CGM unit in the same manner & take effect all respects as if the Contractor and the Successor CGM unit were parties there to from the

inception and the corresponding officer or the Competent Authority in the Successor CGM unit will exercise the same powers and enjoy the same authority as conferred to the Predecessor CGM unit under the original Contract/Agreement entered into.

2. (3) If for administrative or other reasons, the Contract is transferred to the Successor CGM unit of DFCCIL, the Contract shall notwithstanding any things contained herein contrary there to, be binding on the Contractor and the Successor CGM unit of DFCCIL in the same manner and take effect in all respects as if the Contractor and the Successor CGM unit of DFCCIL 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 reasons 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 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 work shall be in writing or e-mail on registered e-mail ID's i.e., the e-mail ID provided for correspondence in the Contract Agreement, otherwise e-mail 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 shall be occupied by the Contractor without the permission of the DFCCIL. 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/persons are permitted to use DFCCIL 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 Railway/DFCCIL to rescind the contract under Clause 62 of these Conditions and also render the Contractor liable for payment to the Railway/DFCCIL 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 sub-letted, through a works contract. For fulfilment of above, Work Experience Certificate issued by a Govt. Department/Organisation 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 authorised 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

(iii) 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 endeavour 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 (CGM/DFCCIL/Noida), based on documents, is satisfied that the subcontractor has successfully carried out sub-letted work, without issuance of work experience certificate to subcontractor at this stage, the Chief Engineer (CGM/DFCCIL/Noida) can, only once, consider the successfully completed sub-letted 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 Railway/DFCCIL 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 Railway/DFCCIL and shall not relieve the Contractor of any responsibility under the Contract.
- 8. Assistance by the 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 endeavour 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 day to day positions 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. Not applicable**
- 10. Not applicable**
- 11. Not applicable**
- 12. Representation on Works:** The Contractor shall, when he is not personally present on the site of the works place and 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 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 and the Contractor shall duly preserve the same to the satisfaction of the DFCCIL and shall from time to time deliver the same to such person or persons as the DFCCIL 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, stones, 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 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 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 fulfilment 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 Railways/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 Start-up 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 de barred from participating in re-tender for that work.

- (b)** The successful bidder shall submit the Performance Guarantee (PG) in the form of Irrevocable Bank Guarantee amounting to 3% of the Original Contract value (authority vide OM No. F.9/4/2020-PPD dated 30.12.2021 of Ministry of Finance, Govt. of India)
- (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 favour of DFCCIL/Noida (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 in addition to forfeiture of Security Deposit available with DFCCIL.

- (g) The Engineer/DFCCIL shall not make a claim under the Performance Guarantee except for amounts to which the President of India/DFCCIL 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/DFCCIL may claim the full amount of the Performance Guarantee.
 - (ii) Failure by the Contractor to pay President of India/DFCCIL 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/DFCCIL.
 - (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 and in any case not less than one month before the expiry of the date fixed for completion of the works.
- (ii) **Extension for Delay not due to DFCCIL or Contractor:** If in the opinion of the Engineer, the progress of work has any time been delayed by any act or neglect of 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 neighbouring 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 endeavours 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. The Engineer on receipt of such request from the Contractor shall consider the same and shall grant 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.

- (iii) **Extension for Delay due to DFCCIL:** 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.

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 Railway/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 Railway/DFCCIL will be entitled without prejudice to any other right and remedy available on that behalf, to recover from the Contractor as agreed damages and not by way of penalty for each week or part of the week, a sum calculated at the rate of Liquidated Damages as decided by Engineer, between 0.05% to 0.30% of 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.

S. No.	Duration of Extension of Time under Clause 17B	Rate of Liquidated Damages
(i)	Up to Twenty Five percent of original period of completion including period of extension of time granted under Section 17A (i)	As decided by Engineer, between 0.01% to 0.05% of contract value for each week or part of the week
(ii)	Above Twenty Five percent but up to Fifty percent of original period of completion including period of extension of time granted under Section 17A (i)	0.10 % of contract value for each week or part of the week
(iii)	Above Fifty percent of original period of completion including period of extension of time granted under Section 17A (i)	0.30 % of contract value for each week or part of the week

Provided further, that if the Railway/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 Railway/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.

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 Railway/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 to the contractor or his partner, 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 Government of India/DFCCIL.

18 (2) The contractor shall not lend or borrow from or have or enter into any monetary dealings and 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 or any such offence or compensation payable to the DFCCIL under this clause shall be settled by the Chief General Manager/Noida of the DFCCIL, in such a manner as he shall consider fit and sufficient and his decision shall be final and 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 up to 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/CGM. 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 endeavour to fulfil 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 programme.

In Contracts for works of New Line/Gauge Conversion/Doubling/Railway 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.

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 shall check these at frequent intervals. The contractor shall provide all facilities like labour and instruments and shall co-operate with the Engineer's representative to check all alignment, grades, levels and dimensions. If, at any time, during the progress of the works any error shall 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 authorised, 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 for 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/DFCCIL'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 requests for details:** The Engineer shall furnish with reasonable promptness, after receipt by him of the contractor's request for the same, additional instructions by means of drawings or otherwise, necessary for the proper execution of the works or any part thereof. All such drawing 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 CGM 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 and this 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 an 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 Railway / 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, defence or compromise, and the incurring of any such expenses shall not be called in question by the contractor.
- 25 Sheds, Stores houses and Yards:** The contractor shall at his own expense provide himself with sheds, stores houses 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, stores houses and yard 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 plan which the Engineer may object to shall not be brought upon or used in the works, but shall be forthwith removed from the sheds, store

houses or yards by the contractor. The contractor shall at his own expenses provide and maintain suitable mortar mills, soaking vats or any other equipment's 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 and proper manner and shall employ only such supervisors, workmen and 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 the 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 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 per Section-6 of the Tender Document.

26A.2 In case qualified Engineer as per clause 26.A.1 is/are absent from site for more than a week period in a month when work is in progress of relevant discipline, then deduction on account of non-providing qualified Engineer will be done on pro-rata basis for whole absentee period.

26A.3 Not applicable

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:

- (a) 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.
- (b) The substitution of proper and suitable materials, and
- (c) the removal and proper re-execution, notwithstanding any previous tests thereof or on account payments therefore, 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.
- (d) 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 Railway/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 Railway/DFCCIL necessary expenses incurred by the Railway/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) Not applicable**
- 31. (3) Not applicable**
- 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.
- 31. (4) (b) Not applicable**
- 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, they are brought upon the site of the said land, be deemed to be the property of the DFCCIL. 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 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 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) Not applicable**
- 33. (2) Not applicable**

- 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, alterations, 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 bill/security deposit or any other dues of Contractor with the Government of India or DFCCIL.
- 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 erect 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 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 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: -
- (a) Provided for in the Contract, or
 - (b) 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
 - (c) Necessary for the safety of the works or any part thereof.
 - (d) 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
 - (e) Necessary to avoid disruption of traffic and utilities, as also to permit fast repair and restoration of any damaged utilities, or

- (f) 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 suspensions exceeds 14 days, the contractor shall be entitled to such extension of time for completion of the work as the Engineers 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: 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, centring, 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 centre 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 of 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 or DFCCIL.

38 Not applicable

39. (1) Rates for Extra Items 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). However, the cumulative value of all such extra item(s) together (modified by the respective tender percentage) shall not exceed 10 % of the original contract value.

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

(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 DFCCIL 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 DFCCIL shall be entitled to execute the extra works by other means and the Contractor shall have no claim for loss or damage that may result from such procedure.

The assessment of rates for extra 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

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 hereunto fore-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 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 CGM within 30 days of getting the decision of the Engineer, supported by analysis of the rates claimed. The CGM'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 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/DFCCIL

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, DFCCIL 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, if DFCCIL 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). 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 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 up to 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 up to 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 96% of the rate awarded for that item in that particular tender;
- (c) Variation in quantity 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 for Minor value item:
The limit for varying quantities for minor value items shall be 100% (as against 25% prescribed for other items). A minor value item for this purpose is defined as an item whose original agreement value is less than 1% of the total original agreement value.
- (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;
- (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;
- (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/DFCCIL 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 month 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 fulfilment of his obligations under the Contract.
- 45. (i) Measurement of Works by Railway/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 Railway/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 Railway/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.
- 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 Contractor's adherence, the test check may be conducted in his absence and such test checks shall not, withstanding such absence be binding upon Contractor provided always that any objections made by Contractor to test check shall be duly investigated and considered in the manner set out below:
- (i) It shall be open to Contractor to take specific objections to test check of any recorded measurements 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 objections 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/action 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 as claimed any false measurement for the work 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 impose a penalty of 10% of claimed gross bill value.
 - (ii) On any next occasion of noticing any exaggerated/false measurement, DFCCIL shall impose penalty of 15% of claimed gross bill value. In addition, the facility of recording of measurement by Contractor as well as release of provisional payment shall be withdrawn. Once withdrawn, measurement 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 "One-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 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 retained earnest money and 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 Rs. 1/- will be reckoned as Rs. 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 Engineer's/Engineer's Representative) and shall in no respect be considered or used as evidence of any facts stated in or to be inferred from such accounts nor of any particular quantity of work having been executed nor of the manner of its execution being satisfactory.

46. (4) Advances to Contractor:

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) Mobilisation Advance:

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 a 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 instalments 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 Railway/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 Railway/DFCCIL, such balance of advances and accrued interest thereon shall immediately become due and payable by the Contractor to the Railway/DFCCIL. The same shall be recovered from any due of Contractor with the Government of India.

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

46A. Price Variation Clause (PVC):

46A.1 Applicability: Price Variation Clause (PVC) is not applicable for this work.

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 Railway/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).

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 Railway/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:

S N	Classification		1A, 2 & 3A	4A	5A	6A	7	8A	9A	1B, 3B, 4B, 5B, 6B 8B & 9B	1C, 3C, 4C, 5C, 6C, 8C & 9C	3D, 4D, 5D, 6D, 8D & 9D	3E, 4E, 5E, 6E, 8E & 9E
	Components												
1	Fixed	*	15	15	15	15	15	15	15	15	15	15	15
2	Labour	L _c	20	25	30	20	50	20	20	0	0	10	25
3	Steel	S _c	0	0	0	0	0	0	0	85	0	50	0
4	Cement	C _c	0	0	15	0	0	0	0	0	85	0	0
5	Plant Machinery & Spares	PM _c	30	15	5	20	15	20	30	0	0	10	30
6	Fuel & Lubricants	F _c	25	15	5	15	15	20	15	0	0	10	20
7	Other materials	M _c	10	15	30	30	5	25	20	0	0	5	10
8	Detonators & Explosive	E _c	0	15	0	0	0	0	0	0	0	0	0
Total			100	100	100	100	100	100	100	100	100	100	100

* It shall not be considered for any price variation.

The classification mentioned in the table above represents following type of item(s) in the work(s) –

1 Earthwork in Formation

- 1A All Item(s) excluding 1B or/and 1C
- 1B Item(s) for supply of Steel
- 1C Item(s) for supply of Cement

2 Ballast Supply Works

3 Tunnelling Works (Without Explosives)

- 3A All Item(s) excluding 3B or/and 3C or/and 3D or/and 3E
- 3B Item(s) for supply of Steel
- 3C Item(s) for supply of Cement or/and Grout
- 3D Item(s) for Fabrication & Erection of Structures including supply of Steel
- 3E Item(s) for Fabrication & Erection of Structures excluding supply of Steel.

4 Tunnelling Works (With explosives)

- 4A All Item(s) excluding 4B or/and 4C or/and 4D or/and 4E
- 4B Item(s) for supply of Steel
- 4C Item(s) for supply of Cement or/and Grout
- 4D Item(s) for Fabrication & Erection of Structures including supply of Steel
- 4E Item(s) for Fabrication & Erection of Structures excluding supply of Steel.

5 Building Works

- 5A All Item(s) excluding 5B or/and 5C or/and 5D or/and 5E
- 5B Item(s) for supply of Steel
- 5C Item(s) for supply of Cement
- 5D Item(s) for Fabrication & Erection of Structures including supply of Steel
- 5E Item(s) for Fabrication & Erection of Structures excluding supply of Steel.

6 Bridges & Protection Work

- 6A All Item(s) excluding 6B or/and 6C or/and 6D or/and 6E
- 6B Item(s) for supply of Steel
- 6C Item(s) for supply of Cement
- 6D Item(s) for Fabrication, Assembly, Erection& Launching of Girders including supply of Steel
- 6E Item(s) for Fabrication, Assembly, Erection & Launching of Girders excluding supply of Steel

7 Permanent Way linking

8 Platform, Passenger Amenities

- 8A All Item(s) excluding 8B or/and 8C or/and 8D or/and 8E
- 8B Item(s) for supply of Steel item/fittings

- 8C Item(s) for supply of Cement Item
- 8D Item(s) for Fabrication & Erection of Structures including supply of Steel
- 8E Item(s) for Fabrication & Erection of Structures excluding supply of Steel

9 Any Other Works not covered in Classification 1 to 8

- 9A All Item(s) excluding 9B or/and 9C or/and 9D or/and 9E
- 9B Item(s) for supply of Steel
- 9C Item(s) for supply of Cement or/and Grout
- 9D Item(s) for Fabrication & Erection of Structures including supply of Steel
- 9E Item(s) for Fabrication & Erection of Structures excluding supply of Steel

46A.7 Formulae: The Amount of variation in prices in various components (labour, material etc.) shall be worked out by the following formulae:

- (i)
$$L = \frac{(W \text{ or } W_{SF} \text{ or } W_F \text{ or } W_{SFL} \text{ or } W_{FL}) \times (L_Q - L_B) \times L_C}{L_B \times 100}$$
- (ii)
$$M = \frac{(W \text{ or } W_{SF} \text{ or } W_F \text{ or } W_{SFL} \text{ or } W_{FL}) \times (M_Q - M_B) \times M_C}{M_B \times 100}$$
- (iii)
$$F = \frac{(W \text{ or } W_{SF} \text{ or } W_F \text{ or } W_{SFL} \text{ or } W_{FL}) \times (F_Q - F_B) \times F_C}{F_B \times 100}$$
- (iv)
$$E = \frac{(W) \times (E_Q - E_B) \times E_C}{E_B \times 100}$$
- (v)
$$PM = \frac{(W \text{ or } W_{SF} \text{ or } W_F \text{ or } W_{SFL} \text{ or } W_{FL}) \times (PM_Q - PM_B) \times PMC}{PM_B \times 100}$$
- (vi)
$$S = \frac{(W \text{ or } W_S \text{ or } W_{SF}) \times (S_Q - S_B) \times S_C}{S_B \times 100}$$
- (vii)
$$C = \frac{(W \text{ or } W_C) \times (C_Q - C_B) \times C_C}{C_B \times 100}$$

(II) For Railway Electrification Works:

- (viii)
$$T = [0.4136 \times (CQ - CB) / CB] \times 85$$
- (ix)
$$R = [0.94 \times (RT - RO) / RO + 0.06 \times (ZT - ZO) / ZO] \times 85$$
- (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 items 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:

- (a) The following expressions and meanings are assigned to the value of the work done for signalling and telecommunication works:

SIGWK = Value of signalling works for a stage payment of the item signalling works;

INVSIG = Value of inventory for signalling works for a stage payment of the item inventory for signalling works;

INTGTESTSIG = Value of integrated testing and commission for signalling works of the Railway Project;

COMWK = Value of telecommunication works for a stage payment of the item telecommunication works;

INVCOM = Value of inventory for telecommunication works for a stage payment of the item inventory for telecommunication works; and

INTGTESTCOM = Value of integrated testing and commission for telecommunication works of the Railway Project.

- (b) Price adjustment for changes in cost of signalling works and telecommunication works shall be paid in accordance with the following formula:

(i)
$$VSIGWK = 0.85 \text{ SIGWK} \times [\text{PELEX} \times (\text{ELEXi} - \text{ELEXo}) / \text{ELEXo} + \text{POFC} \times (\text{OFCi} - \text{OFCo}) / \text{OFCo} + \text{PLB} \times (\text{LBi} - \text{LBo}) / \text{LBo} + \text{POTH} \times (\text{OTHi} - \text{OTHo}) / \text{OTHo} + \text{S30C} \times (\text{P30Ci} - \text{P30Co}) / \text{P30Co} + \text{S24C} \times (\text{P24Ci} - \text{P24Co}) / \text{P24Co} + \text{S19C} \times (\text{P19Ci} - \text{P19Co}) / \text{P19Co} + \text{S12C} \times (\text{P12Ci} - \text{P12Co}) / \text{P12Co} + \text{S9C} \times (\text{P9Ci} - \text{P9Co}) / \text{P9Co} + \text{S6C} \times (\text{P6Ci} - \text{P6Co}) / \text{P6Co} + \text{S4C} \times (\text{P4Ci} - \text{P4Co}) / \text{P4Co} + \text{S2C} \times (\text{P2Ci} - \text{P2Co}) / \text{P2Co} + \text{S12C2.5} \times (\text{P12C2.5i} - \text{P12C2.5o}) / \text{P12C2.5o} + \text{S2C2.5} \times (\text{P2C2.5i} - \text{P2C2.5o}) / \text{P2C2.5o} + \text{S2C25} \times (\text{P2C25i} - \text{P2C25o}) / \text{P2C25o} + \text{QC} \times (\text{PQCi} - \text{PQCo}) / \text{PQCo};$$

(ii)
$$\text{VINVSIG} = 0.85 \text{ SIGWK} \times [\text{PELEX} \times (\text{ELEXi} - \text{ELEXo}) / \text{ELEXo} + \text{POTH} \times (\text{OTHi} - \text{OTHo}) / \text{OTHo}];$$

(iii)
$$\text{VINTGTESTSIG} = 0.85 \text{ INTGTESTSIG} \times [\text{PLB} \times (\text{LBi} - \text{LBo}) / \text{LBo} + \text{POTH} \times (\text{OTHi} - \text{OTHo}) / \text{OTHo}];$$

(iv)
$$\text{VCOMWK} = 0.85 \text{ COMWK} \times [\text{PELEX} \times (\text{ELEXi} - \text{ELEXo}) / \text{ELEXo} + \text{POFC} \times (\text{OFCi} - \text{OFCo}) / \text{OFCo} + \text{PLB} \times (\text{LBi} - \text{LBo}) / \text{LBo} + \text{POTH} \times (\text{OTHi} - \text{OTHo}) / \text{OTHo} + \text{S30C} \times (\text{P30Ci} - \text{P30Co}) / \text{P30Co} + \text{S24C} \times (\text{P24Ci} - \text{P24Co}) / \text{P24Co} + \text{S19C} \times (\text{P19Ci} - \text{P19Co}) / \text{P19Co} + \text{S12C} \times (\text{P12Ci} - \text{P12Co}) / \text{P12Co} + \text{S9C} \times (\text{P9Ci} - \text{P9Co}) / \text{P9Co} + \text{S6C} \times (\text{P6Ci} - \text{P6Co}) / \text{P6Co} + \text{S4C} \times (\text{P4Ci} - \text{P4Co}) / \text{P4Co} + \text{S2C} \times (\text{P2Ci} - \text{P2Co}) / \text{P2Co} + \text{S12C2.5} \times (\text{P12C2.5i} - \text{P12C2.5o}) / \text{P12C2.5o} + \text{S2C2.5} \times (\text{P2C2.5i} - \text{P2C2.5o}) / \text{P2C2.5o} + \text{S2C25} \times (\text{P2C25i} - \text{P2C25o}) / \text{P2C25o} + \text{QC} \times (\text{PQCi} - \text{PQCo}) / \text{PQCo} + \text{PCEQP} \times (\text{CEQPi} - \text{CEQPo}) / \text{CEQPo}];$$

(v)
$$\text{VINVCOM} = 0.85 \text{ SIGWK} \times [\text{PELEX} \times (\text{ELEXi} - \text{ELEXo}) / \text{ELEXo} + \text{PCEQP} \times (\text{CEQPi} - \text{CEQPo}) / \text{CEQPo} + \text{POTH} \times (\text{OTHi} - \text{OTHo}) / \text{OTHo}]; \text{ and}$$

(vi)
$$\text{VINTGTESTCOM} = 0.85 \text{ INTGTESTCOM} \times [\text{PLB} \times (\text{LBi} - \text{LBo}) / \text{LBo} + \text{POTH} \times (\text{OTHi} - \text{OTHo}) / \text{OTHo}].$$

Where;

VISIGWK = Increase or decrease in the cost of signalling works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (h);

VINVSIG = Increase or decrease in the cost of inventory for signalling during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (h);

VINTGTESTSIG = Increase or decrease in the cost of integrated testing and commissioning of signalling works of the Railway Project during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (h);

VCOMWK = Increase or decrease in the cost of communication works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (h);

VINVCOM = Increase or decrease in the cost of inventory for telecommunications works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (h);

VINTGTESTCOM = Increase or decrease in the cost of integrated testing and commissioning of telecommunication works of the Railway Project during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (h);

PCEQP, PELEX, PIC, PLB, POFC, and POTH are the percentages of communication equipment, electronics, PVC insulated cables, labour, optical fibre cables, and other materials respectively;

CEQPo = The wholesale price index as published by the Ministry of Commerce and Industry, Government of India (hereinafter called "WPI") for communication equipment for the month of the Base Month;

CEQPi = The WPI for communication equipment for the average price index of the 3 months of the quarter under consideration;

ELEXo = The WPI for electronics for the month of the Base Month;

ELEXi = The WPI for electronics for the average price index of the 3 months of the quarter under consideration;

P30Ci = Price payable per Km as adjusted in accordance with price variation Clause for size 30C x 1.5 sq mm signalling cable

P30Co = Price per Km of cable as per purchase order/ Contract agreement.

S30C = Percentage of size 30C x 1.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

P24Ci = Price payable per Km as adjusted in accordance with price variation Clause for size 24C x 1.5 sq mm signalling cable

P24Co = Price per Km of cable as per purchase order/ Contract agreement.

S24C = Percentage of size 24C x 1.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

P19Ci = Price payable per Km as adjusted in accordance with price variation Clause for size 19C x 1.5 sq mm signalling cable

P19Co = Price per Km of cable as per purchase order/ Contract agreement.

S19C = Percentage of size 19C x 1.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

P12Ci = Price payable per Km as adjusted in accordance with price variation Clause for size 12C x 1.5 sq mm signalling cable

P12Co = Price per Km of cable as per purchase order/ Contract agreement.

S12C = Percentage of size 12C x 1.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

P9Ci = Price payable per Km as adjusted in accordance with Price Variation Clause for size 9C x 1.5 sq mm signalling cable

P9Co = Price per Km of cable as per purchase order/Contract Agreement.

S9C = Percentage of size 9C x 1.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

P6Ci = Price payable per Km as adjusted in accordance with price variation Clause for size 6C x 1.5 sq mm signalling cable

P6Co = Price per Km of cable as per purchase order/ Contract agreement.

S6C = Percentage of size 6C x 1.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

P4Ci = Price payable per Km as adjusted in accordance with price variation Clause for size 4C x 1.5 sq mm signalling cable

P4Co = Price per Km of cable as per purchase order/ Contract agreement.

S4C = Percentage of size 4C x 1.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

P2Ci = Price payable per Km as adjusted in accordance with price variation Clause for size 2C x 1.5 sq mm signalling cable

P2Co = Price per Km of cable as per purchase order/ Contract agreement.

S2C = Percentage of size 2C x 1.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

P12C2.5i = Price payable per Km as adjusted in accordance with price variation Clause for size 12C x 2.5 sq mm signalling cable

P12C2.5o = Price per Km of cable as per purchase order/ Contract agreement.

S12C2.5 = Percentage of size 12C x 2.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

P2C2.5i = Price payable per Km as adjusted in accordance with price variation Clause for size 2C x 2.5 sq mm signalling cable

P2C2.5o = Price per Km of cable as per purchase order/ Contract agreement.

S2C2.5 = Percentage of size 2C x 2.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

P2C25i = Price payable per Km as adjusted in accordance with price variation Clause for size 2C x 25 sq mm signalling cable

P2C25o = Price per Km of cable as per purchase order/ Contract agreement.

S2C25 = Percentage of size 2C x 25 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

PQCi = Price payable per Km as adjusted in accordance with price variation Clause for size 0.9mm dia, 6 Quad cable.

PQCo= Price per Km of cable as per purchase order/ Contract agreement.

QC = Percentage of size 0.9mm dia, 6 Quad cable shall govern the price.

LBo = The consumer price index for industrial workers – All India, published by Labour Bureau, Ministry of Labour, Government of India, (hereinafter called “CPI”) for the month of the Base Month;

LBi = The CPI for industrial workers – All India for the average price index of the 3 months of the quarter under consideration;

OFCo = The WPI for fibre cables for the month of the Base Month;

OFCi = The WPI for fibre cables for the average price index of the 3 months of the quarter under consideration;

OTHo = The WPI for all commodities for the month of the Base Month; and

OTHi = The WPI for all commodities for the average price index of the 3 months of the quarter under consideration.

- (c) The following percentages shall govern the price adjustment of the Contract Price for signalling and telecommunication works:

Component \ Works	Signalling			Telecommunication		
	Signalling Works	Signalling inventory	Integrated testing and Commissioning	Telecommunication Works	Telecomm inventory	Integrated testing and Commissioning
Electronics (PELEX)	***%	***%	—	***%	***%	—
Communication Equipment (PCEQP)	—	—	—	***%	***%	—
Optical Fibre Cable (POFC)	***%	—	—	***%	—	—
30C x 1.5 sq mm signalling cable(S30C)	***%	—	—	***%	—	—
24C x 1.5 sq mm signalling cable (S24C)	***%	—	—	***%	—	—
19Cx 1.5 sq mm signalling cable (S19C)	***%	—	—	***%	—	—
12C x 1.5 sq mm signalling cable (S12C)	***%	—	—	***%	—	—
9C x 1.5 sq mm signalling cable (S9C)	***%	—	—	***%	—	—
6C x 1.5 sq mm signalling cable (S6C)	***%	—	—	***%	—	—
4C x 1.5 sq mm signalling cable (S4C)	***%	—	—	***%	—	—
2C x 1.5 sq mm signalling cable (S2C)	***%	—	—	***%	—	—
12C x 2.5 sq mm signalling cable (S12C.5)	***%	—	—	***%	—	—
2C x 2.5 sq mm signalling cable (S2C2.5)	***%	—	—	***%	—	—
2C x 25 sq mm signalling cable (S2C25)	***%	—	—	***%	—	—
0.9 mm dia, 6Quad cable (QC)	***%	—	—	***%	—	—

Labour (PLB)	***%	—	***%	***%	***%	***%
Other materials	***%	***%	***%	***%	***%	***%
Total	100%	100%	100%	100%	100%	100%

(Note: the percentages may be finalized by tendering authority depending on BOQ)

FORMULAE FOR SIGNALING & TELECOM CABLE:

The price payable for signalling cables is variable as per Price Variation Formula given below:

For Signalling Copper Cables:

$$P_i = P_o + CuF (Cu - C_{uo}) + CCF_{cu}(CC - C_{co}) + FeF (Fe - Fe_o)$$

For Telecom Copper Cables For Jelly Filled, 0.9 mm dia, 6 quad cable

$$P_i = P_o + CuF (Cu - C_{uo}) + AlF_{cu}(Al - A_{lo}) + CCF_{cu}(CC - C_{co}) + FeF (Fe - Fe_o)$$

For Aluminium Power Cables:

$$P_i = P_o + AlF (Al - A_{lo}) + CCFAI(CC - C_{co}) + FeF (Fe - Fe_o)$$

Where,

P_i = Price payable per KM as adjusted in accordance with Price variation clause.

P_o = Price per KM of cable as per Purchase order.

CuF = Variation factor for copper

C_{uo} = Price of copper Rod in Rs. Per MT

CCF_{cu} = Variation factor for PVC Compound for Copper Signalling & Telecom cable

C_{co} = Price of PVC Compound in Rs. Per MT

AlF = Variation factor for Aluminium

A_{lo} = Price of EC grade LME Aluminium rods (Properzi rods) in Rs. Per MT.

$CCFAI$ = Variation factor for PVC Compound for Aluminium power cable

FeF = Variation factor for Steel

Fe_o = Price of Steel for Armour (Flat strip 4 mm. x 0.8mm/ Round 1.4mm dia) in Rs. Per MT

(Prices per MT for C_{uo} , C_{co} , Fe_o , A_{lo} as applicable on the 1st working day of the month, one month prior to the deadline for submission of bids. The above prices and indices are as published by IEEMA vide circular reference no. IEEMA (PVC) /CABLE --/-- one month prior to the deadline for submission of bids.)

Cu = Price of Copper Rod in Rs. Per MT. CC =

Price of PVC Compound in Rs. Per MT.

Fe = Price of Steel for Armouring (Flat strip 4mm x 0.8 mm/ Round 1.4mm dia) in Rs. Per MT.

Al = Price of EC grade LME Aluminium rods (Properzi rods) in Rs. Per MT.

(Prices per MT for Cu , CC , Fe , Al as prevailing on 1st working day of the calendar month covering the date One month prior to the date of inspection call letter will be applicable for the calculation of updated price. The above prices and indices are as published by IEEMA vide circular reference no. IEEMA (PVC) /CABLE --/-- one month prior to the date of inspection.)

The value of variation factors for copper, steel and PVC Compound are different for different sizes of signalling cables. Accordingly, the PVC formula for some of the types of signalling cable is as given under:

Underground Railway Signalling Cable unscreened and armoured copper conductor

- (i) Size 30 C x 1.5 sq.mm.
 $P30Ci = P30Co + 0.391(Cu-Cuo) + 0.557(CC-CCo) + 0.425(Fe-Feo)$
 For armouring, price of steel flat strip of size 4mmx0.8mm is to be taken into consideration.
- (ii) Size 24C x 1.5 sq.mm
 $P24Ci = P24Co + 0.313(Cu-Cuo) + 0.481(CC-CCo) + 0.398(Fe-Feo)$
 For armouring, value of steel flat strip of size 4mmx0.8mm is to be taken into consideration.
- (iii) Size 19C x 1.5 sq.mm
 $P19Ci = P19Co + 0.248(Cu-Cuo) + 0.395(CC-CCo) + 0.343(Fe-Feo)$
 For armouring, value of steel flat strip of size 4mmx0.8mm is to be taken into consideration.
- (iv) Size 12C x 1.5 sq.mm
 $P12Ci = P12Co + 0.157(Cu-Cuo) + 0.277(CC-CCu) + 0.289(Fe-Feo)$
 For armouring, value of steel wire size 1.4mm dia is to be taken into consideration.
- (v) Size 9C x 1.5 sq.mm
 $P9Ci = P9Co + 0.117(Cu-Cuo) + 0.241(CC-CCu) + 0.383(Fe-Feo)$
 For armouring, value of steel wire size 1.4mm dia is to be taken into consideration.
- (vi) Size 6Cx 1.5 sq.mm
 $P6Ci = P6Co + 0.078(Cu-Cuo) + 0.199(CC-CCu) + 0.329(Fe-Feo)$
 For armouring, value of steel wire size 1.4mm dia is to be taken into consideration.
- (vii) Size 4Cx1.5 sq.mm
 $P4Ci = P4Co + 0.052(Cu-Cuo) + 0.152(CC-CCo) + 0.277(Fe-Feo)$
 For armouring, value of steel wire size 1.4mm dia is to be taken into consideration.
- (viii) Size 2C x 4 sq.mm(multistrand)
 $P2Ci = P2Co + 0.073(Cu-Cuo) + 0.156(CC-CCo) + 0.3(Fe-Feo)$
 For armouring, value of steel wire size 1.4mm dia is to be taken into consideration.
- (ix) Size 12C x 2.5 sq.mm
 $P12C2.5i = P12C2.5o + 0.282(Cu-Cuo) + 0.371(CC-CCo) + 0.342(Fe-Feo)$
 For armouring, value of steel flat strip of size 4mmx0.8mm is to be taken into consideration.
- (x) Size 2C x 2.5 sq.mm
 $P2C2.5i = P2C2.5o + 0.047(Cu-Cuo) + 0.139(CC-CCo) + 0.277(Fe-Feo)$
 For armouring, value of steel wire size 1.4mm dia is to be taken into consideration.
- (xi) Size 2C x 25 sq.mm PVC insulated, armoured, Aluminium power cable
 $P2C25i = P2C25o + 0.146(Al-Alo) + 0.303(CC-CCo) + 0.306(Fe-Feo)$
 For armouring, value of steel flat strip of size 4mmx0.8mm is to be taken into consideration.
- (xii) For Jelly filled, 0.9mm dia, 6 quad cable
 $PQCi = PQCo + 0.135(Al-Alo) + 0.139(Cu-Cuo) + 0.515(CC-Cco) + 0.693(Fe-Feo)$
 For PVC Compound Grade CW-22, is to be taken into consideration.

46A.8 The demands for escalation of cost shall be allowed on the basis of provisional indices as mentioned above in Clause 46A.7. Any adjustment needed to be done based on the finally published indices shall be made as and when they become available.

46A.9: (1) Relevant categories of steel for the purpose of operating Price Variation formula as mentioned in this Clause shall be as under:

SL	Classification	Rates to be used for calculating S_Q or S_B
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1.	Reinforcement bars and other rounds	Average of per tonne rates of 10mm dia TMT & 25mm dia TMT; confirming IS1786; Fe 500
2.	All types and sizes of angles, channels and joists	Average of per tonne rates of 'Angle 75x75x6mm, Mild Steel Plate 10mm thickness and Channel 150x75mm; confirming IS2062, E250 Gr "A"
3.	All types and sizes of plates	Average of per tonne rates of 'MS Plates 10mm thickness and 25mm thickness; confirming IS2062, E250 Gr "A"
4.	Any other section of steel not covered in the above categories	Average of price for the 3 categories covered under SL 1, 2 & 3 in this table.

(2) Relevant city for referring "JPC (Joint Plant Committee)" rates of steel items (SQ/SB) in different Zonal Railways shall be as under:

SL	City	Railway
1.	Delhi	Northern, North Central, North Eastern, North Western
2.	Kolkata	Eastern, East Central, East Coast, Northeast Frontier, South Eastern, Southeast Central
3.	Mumbai	Central, Western, West Central
4.	Chennai	Southern, South Central & South Western

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:

- 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.
- 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.

47.0 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 works 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 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 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 Form no. 20, the parties shall execute the Final Supplementary Agreement as per Form No. 20.

49. Approval only by Maintenance Certificate: No certificate other than maintenance certificate 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) 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 Dy.CPM Grade, then a Dy.CPM 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 Liability: The DFCCIL shall not be liable to the Contractor for any matter arising out of or in connection with the contract of the 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 fulfilment 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 Railway/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 Railway/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 any excess amount paid to him till the release of Security Deposit of settlement of claims, whichever is later, if as a result of such examination any over-payment to him is discovered to have 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 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 limited 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/limited 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 a 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 Bills, 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 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.

53.0 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 a 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

54.0 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 there under in respect of any employees directly or through petty contractors or subcontractors 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 or DFCCIL.

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 there under 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 there under 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 or DFCCIL 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 licence under the aforesaid Act as modified from time to time before the commencement of the work and continue to have a valid licence until the completion of the work. Any failure to fulfil 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 subcontractors 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 subcontractors in connection with the saidwork, 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- contractorin execution of the work or to incur any expenditure on account of the contingent, liabilityof the DFCCIL due to the Contractor's failure to fulfil 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 atliberty to recover such amount or part thereof from Contractor's bills/Security Deposit or any other dues of Contractorwith the DFCCIL. The DFCCIL shall not be bound to contest any claim made against itunder Sub-Section

(1) of Section 20 and Sub-Section (4) of Section 21 of the aforesaid Act except on the written requestof 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 CGM 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 Payment of Wages act & Minimum Wages act in terms of clause 54, 55, 55A and 55B of Indian Railways General Condition of Contract. In order to ensure the same, an application has been developed and hosted on website 'www.shramikkalyan.indianrailways.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/up-dation of Portal shall be done as under:

- (a) Contractor shall apply for one-time registration of his company/firm etc. in the Shramikkalyan 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 (LOA) / Contract Agreements on shramikkalyan 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 shramikkalyan 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 Railway's Shramikkalyan 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 from the Registering Officer of the concerned State Govt. (Labour Dept.). The Cess shall be deducted from contractor's bills as per provisions of the Act.

56.0 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.

57.0 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, DFCCIL is obliged to pay compensation to a workman directly or through petty contractor or subcontractor employed by the Contractor in executing the work, 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, DFCCIL 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. DFCCIL 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 DFCCIL full security for all costs for which DFCCIL 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 there under 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 there under, by or on behalf of any persons employed by him or otherwise.

58 Railway/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 discretion, recoveries shall be made at such rates as may be fixed by the DFCCIL for the full rent of the buildings and equipment's 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 crèche (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.

(2) **Compliance to Rules for Employment of Labour:** The contractor(s) shall conform to all laws, by-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.

(3) **Preservation of Peace:** The Contractor shall take requisite precautions and use his best endeavours to

- (i) Prevent any riotous or unlawful behaviour 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 neighbourhood 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.

(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 Local 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 Local Medical Authority.

(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 Local 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 health 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 therefore recovered from the contractor.

(6) Not applicable

(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 Local Medical Authority in relation to the strength of the Contractor's resident staff and workmen.

(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.

(9) **Restrictions on the Employment of Retired Engineers of Railway/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 Labours below the Age of 15:** The Contractor shall not employ children below the age of 15 as labourers directly or through petty contractors or subcontractors for the execution of work.

(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 Form No. 15) 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 the regard, a notice requiring that such person 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 of 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 of 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 therefore 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 with or 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 Clause 1.3.7 of the Preamble and Instructions to Bidder in Part-I, Chapter-III of Tender Document.
- (x) Fails to submit the documents pertaining to identity of JV and PAN in terms of Clause 1.3.17.11 of Tender Form available in the Regulations for Tenders and Contracts.
- (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 the Conditions, or
- (xiii) Fail to afford the Engineer or Engineer's representative proper facilities for inspecting the work or any part thereof as required under clause 28 of the 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 specified in "Preamble & Instructions to Tenderers", Part-I, Chapter-III of Tender Document or Provision of above Clause 59 (9).
- (xvi) Submits copy of fake documents/certifications in support of credentials, submitted by the tenderer

Then and in any of the said Clause, the DFCCIL may serve the Contractor with a notice (Proforma at Form No. 16) 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 Form No. 17 or 17A, 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 Form No. 16 or 18A, 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 Form No. 16, 17A and 18A), 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 the 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 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.
- (iii) 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

63.0 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 CGM)" 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. MD/DFCCIL 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 DFCCIL, 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 63.2.11 of the Standard General Conditions of Contract or in any Clause (stated as excepted matter) of the Special Conditions of the Contract, shall be deemed as ‘excepted matters’ (matters not arbitrable) and 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 Railway/DFCCIL Officers, retired not below senior administrative grade (SAG) or corresponding DFCCIL grades. 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 MD/DFCCIL office. The complete panel, which shall not be less than five members, shall be sent by CGM 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 CGM shall nominate one member from the same panel as Railway/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 Railway/DFCCIL, Contractor and the respective DAB members. The terms of the remuneration of each member shall be as fixed by Ministry of Railways 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 CGM 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 Railway/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 Railway/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 Railway/DFCCIL and the Contractor 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 (Form No. 25) 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 claim stating the facts supporting the claims along with 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 CGM Unit where the cause of action arose or the Headquarters of the 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 defence 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 Railway/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 nominated by MD/DFCCIL from approved panel of Arbitrators in DFCCIL. The sole arbitrator shall be appointed within 60 days from the day when a written and valid demand for arbitration is received by MD/DFCCIL.
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 Officials, as the Arbitrators. For this purpose, the DFCCIL will send a panel of Three (3) names empanelled Arbitrators to work as Arbitrator to the contractor within 60 days from the day when a written and valid demand for Arbitration is received by the MD/DFCCIL.

Contractor will be asked to suggest to MD/DFCCIL 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 MD/DFCCIL 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. MD/DFCCIL 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 Railway/DFCCIL for the purpose of appointment of arbitrator.

64. (3) (a) (iii) The serving Railway/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 Railway/DFCCIL Officer, retired not below the rank of Senior Administrative Grade Officer or corresponding grade of DFCCIL, as the arbitrator. For this purpose, the Railway/DFCCIL will send a panel of at least four (4) names of retired Railway Officer(s)/DFCCIL officers empanelled to work as Railway/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 MD/DFCCIL.

Contractor will be asked to suggest to MD/DFCCIL at least 2 names out of the panel for appointment as arbitrator within 30 days from the date of dispatch of the request by Railway/DFCCIL. The MD/DFCCIL 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 Railway/DFCCIL Officer, retired not below the rank of Senior Administrative Grade Officer, as the arbitrators. For this purpose, the Railway/DFCCIL will send a panel of at least four (4) names of retired Railway/DFCCIL Officer(s) empanelled to work as Railway/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 MD/DFCCIL 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 Railway/DFCCIL. The MD/DFCCIL 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. MD/DFCCIL 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 MD/DFCCIL 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 Railway/DFCCIL Officers of not below JA Grade level or equivalent DFCCIL officers.

(b) Retired Railway/DFCCIL Officers not below SA Grade level or equivalent retired DFCCIL officers, 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 Railway servant(s)/DFCCIL expressed views on all or any of the matters under dispute or differences. A certification to this effect as per Form No. 25 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 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 "Form No. 25" 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 from time to time irrespective of the fact whether the arbitrator(s) is/are appointed by the DFCCIL 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 General Conditions of Contract (GCC) and any statutory modification 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 Railway/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 Railway/DFCCIL, then 75% of the award amount shall be deducted by the Railway/DFCCIL from the Contractor's bills, Performance Guarantee/Security Deposit or any other dues of Contractor with the Government of India.

Part- I
Chapter-V

Special Conditions of Contract

PART-I
CHAPTER-V

SPECIAL CONDITIONS OF CONTRACT

1) Duration of the Contract: -

The Contractor shall be expected to mobilize and commence the work as per instruction received from authorized representative of DFCCIL. The period of completion of work will be 2 years (may be increased or decreased as per requirement) and counted from the date of start of work.

If the Contractor fails to start the awarded work within 30 days of receiving such instruction from DFCCIL, DFCCIL shall without prejudice to any other right or remedy, be at liberty to forfeit the full Earnest Money Deposit and retention money along with Performance Guarantee of the Contractor.

2) Organization Structure:

a) Manpower Organization:

The Tenderer shall have adequate Manpower Organization required for the execution of the tendered work. The contractor shall maintain the minimum manpower at the depots as under apart from *Break down* Gangs in Schedule-02 :

	Requirement at depots		
	Dadri	Prithla	Total
Supervisor (Highly Skilled)	1	1	2
Technician (Skilled)	4	4	8
Helpers (Unskilled)	5	5	10
Total	10	10	20

If required for completion of work as per the BOQ, the staff may be increased.

Note: In case the deployed Supervisor takes leave or leaving his headquarters, contractor has to deploy another employee having equivalent educational & experienced as “Supervisor” for the work. The maintenance shall be supervised by Authorized representative of DFCCIL and his instructions shall be followed as per maintenance manual.

b) Qualification of the contractor’s Personnel for 2x25kV OHE Maintenance work

The Supervisors, Technicians and Helpers should be available 24X7, for all maintenance and restoration of 2x25kV OHE Break down works & trouble-free operation of equipment so that failure could be avoided. The contractor shall ensure the required minimum educational qualifications & experience for his deployed Supervisors, Technicians and Helpers as tabulated below:

EDUCATIONAL QUALIFICATION
<p>Staff Qualification: Following stipulation are made: -</p> <p>Supervisor staff: The supervisory staff posted by the contractor should at least be Degree/Diploma/ITI holder in Electrical Engineering discipline and should have experience of OHE working at supervisory level for a minimum period of 3 years.</p> <p>Technician: The technician posted by the contractor should at least be ITI holder/High school pass and with work experience as OHE technician for a minimum period of 3 years.</p> <p>Helper/Other staff: All other staff deployed by the contractor for carrying out schedule maintenance of OHE Line should at least be High school pass.</p>
<p>Note:</p> <p>1. Photostat copies of above educational qualification certificates shall be attested by contractor and it may be verified from issuing authority.</p>
<p>2. The document of experience shall be from the previous employer and duly attested by the contractor and if found forged/fabricated/tampered, suitable action shall be taken by DFCCIL on Contractor in this regard.</p>

All the personnel desired to be deputed for this work including supervisors have to undergo a scrutinizing test conducted by DFCCIL authorized representative. Candidates found suitable shall be issued "competency certificate" and they will be finally put on job. The suitable candidates will be given an Identity card by the contractor and a competency certificate, which they have to keep with them while on duty and for their movements in the DFCCIL work spots.

c) Medical fitness certificates:

It will be the responsibility of contractor to ensure that the deployed staff is medically fit for Railways 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 under control, disabling / debilitating diseases controllable by drugs, no contagious/ infectious diseases, generally good physique. If required, the contractor will have to get medical checkup of his staff at his own cost.

d) 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".

- e) The contractor's staff shall not carry or display or exhibit any kind of advertisement on his person at DFCCIL/Railway premises.
- f) The contractor's personnel should have knowledge of Local language, Hindi / English for speaking/writing.
- g) The contractor's personnel should not carry any unauthorized/dangerous/explosives in the complex and should not consume alcohol/intoxicating drugs etc.
- h) These staff should reside close to the Depot for easy approach during emergencies. Residential addresses and phone numbers of specified staff should be made available with Traction Power Control and authorized representative of DFCCIL.
- i) 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.
- j) 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 authorized representative will be

final and binding on the contractor.

- k) If any unusual occurrence/Breakdown takes place, the contractor's staff should reach the breakdown vehicle within 30 minutes in day and 45 minutes at night after receipt of the information from DFCCIL representative and to report to the DFCCIL's representative. The time of receipt of information should be recorded before railway representative and the call book memo should be jointly signed by the gang supervisor and DFCCIL's representative. In all such cases contractor should ensure full strength staff before leaving for the break down site.
- l) Contractor shall be in position for arranging immediately attention of the defects noticed during various inspections.

3) Safety during O.H.E Maintenance work at field:

- a) The contractor should ensure that his staff are following safety norms and no unsafe practice/working is adopted. The contractor shall provide all PPE to his staff required for the work.
- b) The contractor shall ensure the safety of all the staff provided for maintenance of 2x25kV OHE equipment maintenance. In case of any injury or accident the contractor is liable for resultant compensation, DFCCIL will not take any responsibility for the contractor's provided labor.
- c) The contractor should provide safety belts to his staff those authorized to work on the OHE with shockproof safety shoes, raincoats and helmets and other required PPE if any. Further two red banner flags, two sets of hand flags should be maintained with each gang at contractor own cost. He will ensure that the PPEs are in good condition and regularly tested.
- d) Safety precautions to be followed as per safety plan/ maintenance manual/ACTM.
- e) The contractor shall have to take all precautions to prevent possible electrical accidents due to proximity of adjacent 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.

4. MEASURES TO BE ENSURED PRIOR TO START OF WORK

- a) The contractor shall not start any work without the presence of DFCCIL supervisors at 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.
- b) The methodology in detail for execution of the work at site shall be approved by engineering in charge of the organization executing the work.
- c) Before permitting the execution of any works, DFCCIL engineer-in-charge (APM/DPM/PM/Dy. CPM) of the section shall ensure that he received the prior intimation/confirmation of the following aspects from representative of contractor.
 - (i) Name of the Contractor's supervisor.
 - (ii) List of the number(s) of individual vehicle(s)/ machineries, names and license particulars of the driver(s) proposed to be used by contractor.
 - (iii) Information regarding location, duration and timings during which the vehicles/machinery are planned to be plied/worked.
 - (iv) 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.
 - (v) No work shall which is to be done near running track shall commence unless permitted by sectional APM/DPM/PM/Dy.CPM
 - (vi) Supplementary site specific instructions, wherever considered necessary shall be issued by

the Engineer in Charge

- (vii) 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.

5. 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. If a road vehicle or machinery is to work closer to 6.0m due to site conditions or requirement of work, following precautions shall be observed.
 - a. In no case the road vehicle shall run or machinery shall work at distance less than 3.5m from center line of track.
 - b. Demarcation of land shall be done by bright colored ribbon/nylon cord suspended on 120 cm high wooden/bamboo posts at distance of 3.5 m from center line of nearest running track.
 - c. Presence of an authorized DFCCIL's representative shall be ensured before plying of vehicle or working of machinery.
 - d. DFCCIL's Supervisor shall issue suitable caution order to Drivers of approaching train about road vehicles plying or machineries working close to running tracks. The train drivers shall be advised to whistle freely to warn about the approaching train. Whistle boards shall be provided wherever considered necessary.
 - e. Lookout men shall be posted along the track at a distance of 800m from such locations who will carry red flag and whistles to warn the road vehicle/machinery users about the approaching trains. Lookout man shall be deputed for Safety at Work Sites.
 - f. On curves where visibility is poor, additional lookout men shall be posted.
- ii. If vehicle/machinery is to be worked closer to 3.5m from running track -

Under unavoidable conditions, if road vehicles is to ply or machinery is to work closer to 3.5m due to site conditions or requirement of work, following precautions shall be observed:

 - a. Plying of vehicles or working of machinery closer to 3.5m of running track shall be done only under protection of track. Traffic block shall be imposed wherever considered necessary. The site shall be protected as per provisions of Para No. 806 & 807 of P-Way Manual as case may be.
 - b. Presence of a DFCCIL's Supervisor shall be ensured at worksite.
 - c. DFCCIL's Supervisor shall issue suitable caution order to Drivers of approaching train about road vehicles plying or machineries working close to running tracks. The train drivers shall be advised to whistle freely to warn about the approaching train.
- iii. 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.
- iv. 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.
- v. 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.

6. 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) Precautions 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 SSOD

(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.

- 1) The contractor/supervisor/vehicle operator immediately advise the situation to DFCCIL official/officials of the organization executing the work and assist him/them in protecting the track.
- 2) 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 nonworking 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 towardsthe track.
- 3) All temporary arrangements required to be made during execution of work shall be made in such a manner that moving dimensions do not infringe.
- 4) Necessary checks shall be exercised by site in charge from time to time.
- 5) 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.

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 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.

- 1) 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
- 2) Block shall be removed only when all the temporary arrangement, machineries, tools, plants etc. have been kept clear of moving dimensions.
- 3) 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.
- 4) The staff deputed for night working should have taken adequate rest before deploying them in night shift. We can specify duration of night shift from 20.00 hrs to 04.00 hrs.
- 5) All other safety precautions applicable for day time work should be strictly observed during night working.

(iv) Precautions to be taken to ensure safety of workers while working close to running lines.

- 1) Any work close to or on running tracks shall be executed under the presence of a DFCCIL's supervisor only.
- 2) All temporary arrangements required to be made during execution of work shall be made in such a manner that moving dimension do not infringe.
- 3) Suitable speed restriction shall be imposed or Traffic block shall be ensured as required.
- 4) The site shall be protected as per provisions of Para No. 806 & 807 of P.Way Manual as case may be.
- 5) Necessary equipment for safety of trains during emergency shall be kept ready at site.

(v) 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 masts etc.

- 1) 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.
- 2) Presence of an authorized DFCCIL's representative while unloading and stacking shall be ensured.
- 3) The material shall be stacked in such a height so as to not to infringe SOD in case of accidental roll off.

7. SAFETY ASPECTS TO BE OBSERVED WHILE WORKING IN OHE AREA

- i. No electrical work close to running track shall be carried out without permission of DFCCIL representative.
- ii. A minimum distance of 2m or as per DFCCIL guidelines has to be maintained between live OHE wire and body part of worker or tools or metallic supports etc.
- iii. No electric connection etc. can be tapped from OHE.
- iv. Authorized OHE staff should invariably be present when the relaying work or any major work is carried out.
- v. Power block to be correctly taken wherever necessary and 'permit to work' issued.
- vi. The structure bonds, track bonds, cross bonds, longitudinal rail bonds are not disturbed, If disconnected for the work, they are reconnected properly when the work is completed.

8. PROTECTION OF TRACK DURING EMERGENCY

- a) 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.

- i. 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.

9. 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/OHE etc, 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. The copies of fitness certificate issued by competent persons, the operators' photo, manufacturer's load chart and competency certificate shall be produced as and when asked for.

10. Tools and plants management:

- a) Though the tools required for the maintenance shall be provided by the Employer as part of IMSD but contractor should have basic set of tools & equipment to cater maintenance of OHE.
- b) The proper up keeping of tools and plants supplied to the contractor shall be responsibility of the contractor and any damage to these equipment's other than normal wear & tear shall be recovered from the contractor.
- c) Each Technician shall maintain and carry individual tool boxes having full set of required tools and shall not resort to exchanging of tools during power block.
- d) The Employer has established Integrated maintenance Sub depot (IMSD) at various stations and tools supplied by DFCCIL has to be well maintained by gangs in respective IMSD for carrying out the maintenance. Special testing of these tools if required shall be done by DFCCIL. Any theft or loss of tools due to contractor negligence shall be recovered from the Contractor as per value depreciated.

5. Depot At Site:

- a) Staff room and lockable enclosed space for contractor material shall be provided by DFCCIL at

IMSD's.

- b) Place of deployment in general will be Dadri or Prithla or any other location in between Dadri- Rewari. However final decision will be as per requirement of DFCCIL. Decision of DFCCIL in this regard shall be final and binding to contractor.
- c) The contractor shall hand over the depot, sub-depot area complete within a period of one week from completion of the work, cleaned of all Contractors' stores unless otherwise agreed to by the Employer.

6. **Tower Wagon :** Tower Wagon will be spared by DFCCIL to the extent of requirement.

7. **Power Blocks :-**

- a) Obtaining Power Block, Traffic Block Permit-To-Work" shall be carried out by the 'Authorized DFCCIL representative. Contractor Supervisor shall not be permitted to do the above duties.
- b) Availability of 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. Power blocks are premium hours permitted by regulating trains. Hence, optimum utilization requires full deployment of manpower and may require multiple gangs.
- c) 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'.
- d) The permit-to-work shall first be taken from TPC by an Authorized DFCCIL Person, who shall ensure earthing the electrical equipment specified is carried out by Contractor 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.
- e) 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 to cancel permit-to-work.

8. **Knowledge of Rules and Sectioning:**

- a) 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 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.
- b) All contract staff shall be fully conversant with the "Rules & Safety Procedures" while working on TRD installations as laid down in maintenance manuals.

9. **Maintenance of schedules registers, records and forms:**

- a) Copies of Drawings such as LOP, SLD, SED, Operation & Maintenance Manual and As build documents etc. of agreement work will be spared by DFCCIL free of cost as per requirement.
- b) List of maintenance registers and forms to be maintained along with Joint procedure orders issued by DFCCIL from time to time will be informed.

10. Breakdown gangs:

- a) Accidents and breakdowns should normally be attended 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 IMSD as instructed by DFCCIL representative. The breakdown gang comprising supervisory staff, technicians, helpers, etc., shall be fully aware of different skills required to tackle 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 contractor gang those residing close to depots/railway stations, shall be maintained depot-wise/station-wise by TPC.
- c) Importance of Expeditious Repairs: Every breakdown, 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 may be asked to make a quick assessment of the extent of damage and the time required for restoration which he should promptly do. Further he has to act as per the direction of DFCCIL representative.

11. Power Block Working – Protection of Men Working:

- a) DFCCIL will arrange Block for the works depending on the traffic and other conditions. The contractor shall start work only after taking all safety precautions and protective including placing the discharge rod as required the contractor shall ensure the removal of men and material before cancellation of block.
- b) 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 in adequate number and proper location. 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
- c) 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.
- d) At the end of each block work the contractor shall ensure removal of all men and material and no work inclusive of OHE should be left out in a state of obstruction to running of trains and the 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.
- e) 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 decision of DFCCIL representative of the DFCCIL. The contractor shall in consultation with the DFCCIL submit a weekly power block programme for work, 7 days in advance of the commencement of work.

12. Inspection:

Quality of schedule maintenance and other works carried out by the contractor are subject to periodical inspections by DFCCIL authorized representative of various levels as per the schedules laid down by DFCCIL. Any shortfall in the quality of work shall be subject to penalties/Recoveries as per prevailing conditions.

13. Supply of Vehicles :

- a) The contractor should provide Vehicle (as detailed Schedule 04 of Form 04 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 Uttar Pradesh , Haryana, Rajasthan and may also go to Delhi and other places in the country.
- b) Vehicles shall be made available for 24x7 days a week. 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 200km 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. Minimum wages to the driver and other statutory obligation should be met by the contractor at his own cost.
- 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 viz. 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 state. If Driver is found in drunken or intoxicated state, 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 5,00 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 incalculation, 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

Central/State/Local Government bodies for running of vehicles, salary and other benefits admissible to driver. 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.

14. Penalties:

The contractor should ensure availability of staff and vehicle as per contract provisions. However,

- a) The staff should be available 24 hours X 7 days of the week however normal working hours of gang will be for 8 hours but will depend on availability of block and other requirements. The contractor should ensure the availability of full-strength every day. 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.
- b) If any staff including the vehicle driver is absent, then deduction from contractor's monthly payment shall be as per accepted rates at Schedule 02 for different categories calculated on prorata basis for each day, considering 26 days a man month. If there is any increase in minimum wages as notified by Government from time to time, deductions will be as per accepted rates of Schedule 02 calculated as per new minimum wages for different categories and on prorata basis for each day, considering 26 days a man month. Driver is considered as Skilled worker and has to be present 24X7.
- c) If the vehicle is not provided/vehicle not turned up for duty, any day, the vehicle will be marked absent and the deduction from contractor's monthly payments shall be as per accepted daily rates of Schedule 04, calculated on prorata basis, considering 30 days a vehicle month. If it is late then this daily rate will be divided by 24 and same will be deducted for each hour or part thereof.
- d) In addition to the above deductions, DFCCIL representative if deems fit may impose following penalties: -
 1. The contractor should ensure the suitable replacement to make the full-strength staff. If the contractor fails to provide the suitable replacement, penalty of Rs 200/- per day for Supervisor and Rs 100/- per day for Technician/Driver/Helper/ for the first three days of absentism and Rs 400/- per day for Supervisor and Rs 200/- per day for Technician/Driver/Helper in excess of three days of absentism till the full strength of staff is available.
 2. Delay in reporting for breakdown beyond 30 minutes in day and 45 minutes at night after receipt of the information from DFCCIL representative or a staff member is not present at site during breakdown, a penalty of Rs 500 per person per hour or part thereof shall be levied up to maximum of Rs 10,000 per breakdown.
 3. If not attending the break down maintenance within stipulated time from information given by TPC/APM/In charge to the contractor, a penalty of Rs.50,000/- per break down may be levied.
 4. If the contractor fails to provide vehicle for duty, then a penalty of Rs 2000/- per day may be levied.
 5. If breakdown occurs due to poor maintenance and proved, a penalty of Rs.20,000/- on flat rate basis per occasion may be levied.
 6. The deficiency is not checked for the equipment as per standard proforma enclosed with tender book OR not carried out the to the satisfaction of maintenance manual/DFCCIL, penalty of Rs.1,000/- on flat rate basis per occasion may be levied.

7. If the contractor's personnel is found without Identity card, found in untidy condition, having improper conduct, found not obeying the instructions of Engineer In-Charge of DFCCIL, a penalty of Rs. 200/- 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, then a penalty of Rs 300 shall be levied.
8. The Service Provider will ensure that before raising the bill on DFCCIL for the service rendered by outsourced persons, the salary payable to outsourced person is paid on or before the 10th day of the following month and a proof of payment shall be annexed to the monthly bill.

In case the Service Provider fails to pay the outsourced person within the above time frame the rate of penalty shall be imposed on payment of Agency's monthly are as under: -

- i) For payment to the outsourced person within 10th of the following month -Nil
 - ii) For payment to the outsourced person after 10th and up to 20th of the following month – Rs 500.
 - iii) For payment to the outsourced person after 20th and up to 30th of the following month – Rs 1000.
- e) Any T&P items supplied to the contractor for the maintenance of OHE “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.
 - f) Suitable penalty may be imposed for any other shortfall/inadequacy in service and The penalties as mentioned above may be imposed simultaneously.
 - g) The decision of DFCCIL representative regarding deductions and penalties will be final and binding on the contractor.

15. Payment Terms:

Payment shall be made on monthly basis for successful execution of work against the schedule items detailed in Form No. 4 (“Schedule of Prices and Total Prices”) at the accepted rate. Further, on- account 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/Noida.

Other Special Conditions of Contract: -

16. For testing requiring specialized tools not provided by DFCCIL or to be carried out at external agencies, payment shall be made to Contractor on actual basis on submission of invoice etc. However prior approval to be taken from CGM/DFCCIL/Noida.
17. For any service/maintenance or other activity on equipment attended by OEM/Authorized agency of that equipment, shall be paid by DFCCIL as per actual on submission of GST invoice. However prior approval to be taken from CGM/DFCCIL/Noida.
18. Requirement of special testing tools/equipment not provided by DFCCIL and hiring of equipment's like cranes etc shall be paid as per actual by DFCCIL on submission of GST invoice. However prior approval to be taken from CGM/DFCCIL/Noida.
19. Any activity defined in Schedule 03 & Schedule 05 of Form no 4 of Tender document, shall be carried out only after prior approval of Engineer of DFCCIL.
20. Payment against supply of material shall be done only after receipt and verification of material completely by DFCCIL.
21. DFCCIL reserves the right to increase/decrease the manpower under different categories of Schedule 02 of Form no.04 of Tender document (Breakdown Gangs) as per its requirement and if utilized for less than a period of month, payment will be made on prorata rates basis considering 26 days in month
22. For item no 1, Sch.03 of Form no.04 of Tender document, in special cases, if work is done for less than a day, then payment will be given hourly on prorata basis considering each manday as 8 hours aday.
23. Item no 3, Sch.03 of Form no.04 of Tender document, is for short duration breakdown/unusual activities,

If less manpower other than defined size of gang is utilized, payment will be made on prorated rates basis considering of seven persons.

- 24.** For item no 16, Sch.01 of Form no.04 of Tender document, rates are for each maintenance schedule i.e. quarterly/half yearly/yearly.
- 25.** In case of any statutory increases in the wages of labour in accordance with the Minimum wages notification issued by the appropriate authority under the Minimum Wages Act from time to time after submission of the tender, payment of minimum wages to the personnel deployed should be revised accordingly and claimed from DFCCIL with the monthly bill. 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 28.09.2022 and this will be treated as the reference rate for calculating the proportionate increase over the tendered rates. The Service Provider will, for the purpose, aforesaid continuously monitor the Services being
- 26.** 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.
- 27.** The attendance roll for the personnel deployed by the Contractor at the premises of DFCCIL shall be provided by the Contractor and it shall be monitored 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.
- 28.** The engagement of outsourced staff shall be purely on temporary and on 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 and the staff in circumstances provided herein above. The Contractor will have to provide suitable replacement acceptable to DFCCIL.
- 29.** 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.
- 30.** 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.
- 31.** 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.
- 32.** If required, in items consisting of supply and erection, 75% payment shall be made, if only supply component of item is availed by DFCCIL individually and 25% payment shall be made, if only erection part is availed by DFCCIL individually.
- 33.** Rates for dismantling of an item will be 50% of the rates of erection of that item, if not specified otherwise.
- 34.** The unit prices for supply indicated in the schedule of rates are inclusive of the prices of materials including all incidental charges for transport, loading/unloading and handling of materials etc,
- 35.** If there are varying or conflicting provisions in the documents forming part of the contract, Engineer shall be deciding authority with regard to the intentions of the provision and decision of Engineer will be

final and binding on the contractor.

- 36.** Safety to be ensured for staff of the contractor, where the construction activity in the section is still in progress.
- 37.** Contractor shall provide transportation for his staff by road/train for foot patrolling/AT fuse replacement/foreign body removal/any other activities specified by DFCCIL's representative if required.
- 38.** All released materials/scrap from site shall be returned to DFCCIL by Contractor.

(Ref copy of competency certificate that will be issued by DFCCIL to employees of Contractor)

Competency Certificate

Certified that Shri _____ Supervisor/Operator of
M/s. _____ has been trained and examined in safety measures to be followed
while working in the vicinity of running DFCCIL track for the work _____. His knowledge
has been found satisfactory and he is capable of supervising the work safely. This certificate is valid only for the work
mentioned in this certificate only.

Signature and designation of the officer

Part- I
Chapter-VI

Technical Specifications

A. SCOPE OF WORK -

Maintenance of 2x25 KV Overhead equipment on New Rewari - New Dadri section of DFCCIL including IR & ICD connecting lines under CGM Noida. Approx 128 RKM and 312 TKM.

The work requires high degree of planning and execution.

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

1. 2x25 kV A.C. Traction Overhead Equipment on main line, 25kV OHE in loop lines and IR connecting lines etc. The OHE shall be of both High Rise (2x25kV) & Conventional IR Type (25kV). The LOPs, SED, SSOD and necessary drawings for the entire section will be available in CGM Noida office for reference.
2. Special Checks & Preventive maintenance of the 2x25 kV A.C. Traction Overhead Equipment including positive & negative feeders, AEC & BEC etc. should be carried out under Power Block and 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.
3. Immediate attention for any breakdown in the 2x25 kV A.C. Traction Overhead Equipment and quick restoration.
4. To maintain these, Employer has established 02 no. IMSD (Integrated Maintenance Sub Depot) at New Prithla & New Dadri. The tools and plants shall be arranged by the Employer at these IMSD. Basic set of tools shall be arranged by the contractor at his own cost and no extra cost shall be payable for it.
5. The consumable material for the maintenance and replacement for the defective parts shall be provided by the Employer. It shall be issued by authorized representative of CGM /Noida available at IMSD
6. Explanatory notes on the schedule items.

Explanatory notes are given below for all items given in schedule of prices for the guidance of tenderer. Minor work though may not be specifically mentioned but necessary to complete the work will deemed to be included in the respective schedule items.

B. GENERAL

	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 variations to suit local condition/erection but no adjustment in prices shall be made on that account. Prices quoted shall be inclusive of all incidental charges
	All works shall be carried out strictly in accordance to the DFCCIL drawings, specifications and guidelines issued by DFCCIL if any. However, any modified arrangement if in vogue in DFCCIL or suggested by CGM/Noida, the work shall be executed accordingly without any alteration in accepted rates.

	<p>Explanatory note for various items of works in the Schedule of item, quantities and prices are given below. The Checking and maintenance of all items of 2x25kV 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 Tr.D organization of respective sections. In- case of disputes between above standards if any, the decision of concerned DFCCIL Authorized representative is the final and contractor is bound to act accordingly.</p>
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PARTICULARS OF SCHEDULE OF ITEMS & EXPLANATORY NOTE**Schedule 1: Regular Maintenance Activity****Sch.1, Sl. No. 1:- Checking & Maintenance of Cantilever assembly**

The Checking and Maintenance of Cantilever assembly 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 checking & maintenance of Cantilever assembly including all components, Stay & Bracket insulators, dropper wires and copper wires including small parts steelwork used for fixing on mast and carrying out periodic over hauling work of cantilever including Zylot testing of non-ferrous parts if required. (However, this does not include the anti-creep arrangement at masts / structures). Checking, adjusting heights and staggers on the basis of setting distance and rail level marked. Close coordination with Permanent Way Inspectors is required. Checking of RRA clamps and contact wire. Checking of all OHE parameters at the cantilever assembly.

Price shall also cover replacement of defective components of cantilever assembly including Stay & Bracket insulators during maintenance if found any. Price shall cover measurement and recording of all HIGH-RISE OHE parameters, make, Sr.No., batch no. etc. of various HIGH-RISE OHE components as per DFCCIL requirement. Cantilever Maintenance sheets to be signed by both DFCCIL and contractor representatives. The work shall be carried out as and when required by Engineer in-charge during the contract period.

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

Sch.1 Sl. No. 2 :- Checking & Maintenance of 25kV OHE Conductors.

The Checking and maintenance of 25kV OHE Conductors 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 job shall include checking of 25kV OHE Masts, Portal structures, Bridge masts, Special masts or arrangements if any etc., OHE Conductors for presence of kinks, knots or any deformity and attention to same. Tower wagon as and when required, will be provided by DFCCIL.

The job shall include checking and adjustment of OHE droppers, contact wire parallel clamp, contact wire dropper clip and catenary wire dropper clip complete with bolts, nuts etc., catenary ending clamp, large span wire and clamp, adjuster, anchor double strap assembly, compensating plate / equalizing plate, caution boards, number plates etc and replacement of minor defective items. Price also covers cleaning of muff of HIGH RISE OHE mast/portal by removing the vegetation and condition of structure muff are to be checked

The job shall also include

- i. Ensure smooth passage of pantograph.
- ii. Recording of contact wire height and staggers, and adjustment if required.
- iii. Checking and tightening of all kinds of PG clamp available.

- iv. Checking of in span droppers & its adjustment/replacement if required.
- v. Replacement of catenary and contact dropper clips if required.
- vi. Checking for availability of split pin & U pin in catenary and contact wire dropper clip and providing the same if req.

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

Sch.1 Sl.No.3 :- Checking and maintenance of 25 kV OHE Positive Feeder Termination, Negative Feeder Termination & AEC Termination

The job shall cover checking and maintenance of a 25KV feeder/return conductor termination (along or across track) and AEC Conductor terminations. Job shall also cover checking of all components including insulators, replacement of insulators (covered separately in the schedule) and ferrule if required. The job shall also cover checking and maintenance of all materials required for the termination of all aluminum 25KV feeder and AEC 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.

Sch.1 Sl. No. 4 : Checking and maintenance of 25 kV OHE Positive and Negative feeders & AEC conductors excluding termination arrangement

The Checking and maintenance of 25kV HIGH RISE OHE Feeder conductors (Positive and Negative) & AEC Conductors shall be carried out in line with Maintenance Manual/Approved drawings (As Build drawings)/Specifications of DFCCIL with its latest correction slips, if any.

Sch.1 Sl. No. 5 :- Checking & Maintenance of all types of 25kV OHE Jumpers

The Checking and maintenance of 25kV OHE Jumpers 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 job shall cover checking and maintenance of all types of 25kV High Rise OHE Jumpers (not covered in other items) including special arrangement at support & terminal fittings for conductors including Jumper wires. The job shall cover adjustment of all components including PG clamp and Jumper wires on the OHE & shaping etc. Job shall also cover replacement of any jumper assembly complete/component if required (material will be supplied by DFCCIL), and no extra payment will be made for this replacement.

All kinds of Jumpers with broken strands should be replaced if required (material will be supplied by DFCCIL). The clamps should be properly tightened and checked for signs of overheating and proper tightness.

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

Sch.1 Sl.No. 6 :- Checking & Maintenance of Overlaps (IOL/UIOL)

The Checking and maintenance of Overlaps (IOL/UIOL) 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 checking and maintenance of all components and fittings with fasteners installed at Overlaps (insulated or uninsulated) including jumper connections between two sets of overhead equipment conductor at a overlaps good length of sweeping/paralleling zone to be achieved. The price shall also cover checking and maintenance of all materials including different types of jumpers, insulator and all adjustments required at overlaps, whenever required. The price shall cover checking of potential equalizer jumpers at insulated overlaps. The price shall also cover replacement of different types of jumpers complete, if required and no extra payment will be made for this replacement.

The job shall also include: -

- 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 zone of IOL/UIOL.

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

Sch.1 Sl. No. 7 :- Checking & Maintenance of Anti creep arrangement

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 checking and maintenance of all materials for anti-creep including adjusters, mast anchor fittings with bolts & nuts etc. at its termination on either side on structures ending clamps, Guy rod assembly and other fitting viz. single clevis assembly, anchor double strap assembly, double suspension clamp, double eye distance rod and 9-ton insulator, anti-creep wire. The price shall also cover checking/cleaning of muffing of anchor block of guy rod assembly.

The job shall include:

- 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

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

Sch.1 Sl. No. 8 : Checking & Maintenance of 25kV Isolator (SP/DP) including earthing heel arrangement if any

The Checking and maintenance of Isolator 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

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 higher than standard value, 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 job shall also include:

- i. Check nameplates 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 as per requirement depending upon the type of isolator.
- vii. Checking of all insulators (Pedestal & Tie rod etc.)

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

Sch.1 Sl.No. 9 : Checking & Maintenance of 25kV OHE at Turnouts

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 contractor representatives.

The job shall also include

- i. With OHE Inspection Car running on main line/loop line, checking if pantograph glides smoothly under the loop line OHE.
- ii. With OHE Inspection Car running on main line/loop line, checking if pantograph glides smoothly under the main line OHE.
- iii. Check stagger of both the OHEs at turn outs.
- iv. Check that the main line OHE 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 on OHE and masts/structure, if any.
- vii. Checkup rail level and setting distance of the obligatory masts.
- viii. Check up for hard spots near rigid droppers, if any.

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

Sch.1 Sl.No. 10 : Checking & Maintenance of 25kV OHE on a crossover

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.

It shall also include :-

- i With OHE inspection car running on main line/loop line, checking if pantograph glides smoothly under the loop line OHE.
- ii With OHE inspection car running on crossover/main line, checking 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 or as per guidelines below that of the turnout OHE.
- v Check cross contact bar, if any for displacement and distortion.
- vi Check up for hit marks on OHE and masts/structure, if any
- vii Checkup rail level and setting of the obligatory masts.
- viii Check up for hard spots near rigid droppers, if any

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

Sch.1 Sl.No.11 : Checking & Maintenance of Section Insulator assembly

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.

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 job shall also include

- i. Clean insulators and replace chipped or cracked damaged 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. Checking for smooth passage under SI without hitting
- vii. Checking for both the runners to be in contact with pantograph during passing of AC loco

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

Sch.1 Sl.No. 12 : Checking & Maintenance of Auto Tensioning Device (ATD)

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 including 9-ton adjuster, insulators, with double strap assembly and normal/anti-theft guide tube assembly, stainless steel wire rope, Guy rod assembly, counter weight assembly and small parts of steel works and also replacement of bearings of ATD if jammed.

Price shall also cover adjustment of "X & Y" value either by mechanism provided or by cutting of conductors or other means, 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, in-charge during the contract period.

The job shall also include:

- i. Check 'X' and 'Y' dimensions 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 color are painted (Paint will be provided by Railways) 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 in-charge and Contractor's representative which will be submitted by contractor to DFCCIL.

Sch.1 Sl.No.13 :- Foot patrolling to be carried out with one DFCCIL staff.

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 patrolling and 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 be arranged by the contractor as advised by DFCCILs authorized representative.

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) from ground 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 minor defects on the spot e.g., spanners for tightening bond connections etc
- 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.
 - (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 in-charge and Contractor's representative which will be submitted by contractor to DFCCIL.

Sch. 1 Sl.No.14 : Checking & maintenance of all type of bonds including BEC Connection

The price shall cover checking & maintenance of Bonds of various types structure bond, cross bond, continuity bond, impedance bond & rail bond etc. and bond connection required for connecting a traction mast or structures to the nearest non-track circuited rail, or earth electrode, including all fastenings at both ends, maintenance of BEC & TEC conductor and connections.

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

Sch.1 Sl.No.15 : Checking & Maintenance of PTFE type neutral section

The Checking and maintenance of this item shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCILs 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, Earth pit for neutral section etc.

The price shall also cover cleaning, turning, adjustment, checking of tightness and replacement, if required at any stage.

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

Sch.1 Sl. No. 16 : Maintenance of Auxiliary Transformer at Stations and Open section

The job shall cover checking & maintenance of Auxiliary Transformer as mentioned below,

- A. Auxiliary Transformer (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.
- B. Auxiliary Transformer (Half yearly) :-
 - 1. Do all the test as indicated in SN. A as above.
 - 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 SN.A & B as above.
 - 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. 17 : - Maintenance of 25 KV dropout fuse of AT at stations & open section (including providing and replacement)

The Checking and maintenance of this item shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCILs with its latest correction slips if any as per instruction of DFCCIL representative

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

Sch.1 Sl. No. 18 : - Checking and compilation of hotspot of OHE using Thermo vision camera by a skilled Engineer.

The Checking and compilation of hotspot of OHE using Thermo vision camera by a skilled Engineer 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 etc. The measurement shall preferably be done during the period when electric trains are working in the section.

Schedule 2: Break Down Gang

Sch.2, Sl. No. 01 : OHE Break Down Gang consisting of 07 nos. of staff (1 nos. Highly skilled, 3 nos. Skilled, and 3 nos. of unskilled Man power).

The Contractor has to provide Two Breakdown Gangs to DFCCIL consisting of the above staff for attending the Break down on HIGH RISE OHE work on 24X7 basis as a schedule item. The Qualification of Members of gang are defined in Special Conditions of Contract.

(Suitable reliever: Since OHE breakdown can occur anytime, 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. 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 should replace that particular staff member within a week, on the instruction of DFCCIL Engineer. If the staff member is not replaced, he will be treated as absent and penalty as per special conditions of contract should be imposed.

Schedule 03: Additional OHE Activities

Sch.03, Sl .No. 01 :- Manning and Housekeeping the IMSD :-

The Contractor has to do manning, housekeeping and other jobs (if required) the IMSD at New Dadri and New Prithla. He shall be responsible for carrying out any activities instructed by DFCCIL authorized representative. In special cases, if work is done for less than a day, then payment will be given hourly on prorated basis considering each manday as 8 hours a day.

Sch.03, Sl .No. 02 :- Loading, unloading of DFCCIL supplied material to places directed by Engineer in-charge (i.e. From station to tower wagon, station to station, depot to tower wagon, tower wagon to depot etc.) (applicable for material more than 2 MT)

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 etc. Also safe handling and shifting of DFCCIL materials during/after the breakdown if required. Price shall also cover collection of materials from store depot, loading and unloading of materials from depot to site and site to depot as instructed by authorized representative of DFCCIL.

Sch. 03 Sl.No.03 :- Breakdown attention by a gang for restoration of 25 kV HIGH RISE OHE during accidents/ unusual occurrence, for checking HIGH RISE OHE Parameters etc - (one gang consisting of 7 staff) - For short duration breakdowns, unusuals, emergencies etc.

The price shall cover attending activities as above as instructed by authorized representative of DFCCIL. The Contractor is required to deploy one Supervisor, Three Technicians and Three Helpers who were conversant with rules and procedures of working on 2x25 kV A.C. Traction Overhead Equipment installations and medically fit for DFCCIL's working circumstances. Qualification of Members of gang are defined in Special Conditions of Contract.

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

Note: The contractor should deploy additional gangs as per the requirement of DFCCIL for restoration of 2x25kV HIGH RISE OHE during Break down. If less manpower is utilized, payment will be made on prorated rates basis considering of seven persons.

Sch.03, Sl.No.04 :- Erection of 25 kV overhead equipment as per requirement

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 etc. The price shall also cover erection of all components and wires / conductors and terminating wire, small part steel work, Neutral section, section insulators etc 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 in-charge and Contractor's representative which will be submitted by contractor to DFCCIL.

Sch.03 Sl. No. 05 :- Checking & Maintenance of leaning of OHE mast till a new mast erected

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 cover 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 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. 03 Sl. No. 06 :- Casting of all types of foundation (The rate includes supply of the material-ballast, sand, cement, mixture & reinforcement etc.)

There are 2 types of foundation in DFCCIL in which RDSO foundation PCC type and cylindrical foundation RCC type. The applicable volumes and drawings shall be provided in the drawing as part of CSD/LOP. For cylindrical foundation, the required steel for the reinforcement shall be supplied by the DFCCIL.

The price shall cover the supply of the cement, sand, water, ballast, mixing, curing, arrangement of scroll, grouting and muffing the mast with required shuttering as per maintenance manual.

Sch. 03 Sl. No. 07 :- Dismantling of traction structure, Portals, TTC and associate SPS by cutting

The price shall cover on flat rate basis for dismantling of OHE structures or portals by cutting the same below ground/formation level to the required depth and handing over the same to the nominated person at nominated place as directed by Engineer. The price shall also include dismantling of drop arms and booms of the portal and their all-associated fittings like SPS, bonds etc. Crane charges for the purpose are included in the flat rate

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

Sch. 03 Sl. No. 08 :- Transfer of OHE equipment from one mast or support to another.

The job shall cover transfer of overhead equipment to a bracket assembly on a new mast or support, and dismantling of the erected bracket assembly from the old mast or support and consequent adjustment to overhead equipment required such as re-spacing of droppers, levelling etc. The foundation and steel work and bracket assembly for the new mast or structure will be paid for under other appropriate items

Sch. 03 Sl. No. 09 :- Erection of rolled / fabricated and galvanized traction mast, TTC, Portals, AT Mast, Feeder Mast, bridge mast etc.

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

Sch. 03 Sl. No. 10 :- Erection of Cantilevers

The price shall cover on a flat rate basis for erection of any bracket assembly on a traction mast or support or drop arm and shall include those on high/low level platform, in the vicinity of turnouts, over bridges or over-laps and at locations with reduced encumbrance or terminating wires. The price shall include the erection of all components including insulators, galvanized steel tube, dropper wires and small parts steel work complete with bolts and nuts etc., if any. However, this does not include the anti-creep arrangement at masts/ structures.

Sch. 03 Sl. No. 11 :- Erection of large span wire

The price shall cover erection of all components including large span wire, adjusters, terminal fittings and mast attachments required to attach a large span wire or a Head span wire or Cross span wire or Steady span wire or a Support span wire for supporting contact wire only, at both ends, to traction masts/structures or special brackets, solid core insulators. The price shall cover erection of all components including mounting arrangements, span wire, 9 Ton solid core insulators and all small part steel work if any. The price shall cover for Erection of large span wire as per DFCCIL drawings

Sch. 03 Sl. No. 12 :- Erection of Anti creep wire

The price shall cover erection of all materials for an anti-creep including adjusters, galvanized steel wire/copper wire, mast anchor fittings at its terminations on either side of structures, ending clamps, fittings and including 9- ton insulators assembly conforming to DFCCIL specification.

The price shall cover erection of all materials including 9- ton insulator assembly with small parts steel work, if any.

Sch. 03 Sl. No. 13 :- Slewing of OHE.

The price shall cover for Slewing of OHE as per DFCCIL requirement in all respect & site condition.

Sch. 03 Sl. No. 14 :- Supply and fixing of Splicing Clamp Assembly For 150 sq. mm Contact Wire (Crocodile Type)

The price shall cover for Supply and fixing of Splicing Clamp Assembly for 150 sq. mm Contact Wire (Crocodile Type) including all accessories.

Sch. 03 Sl. No. 15 :- Supply and fixing of Splicing Clamp Assembly for 107 sq. mm Contact Wire (Crocodile Type).

The price shall cover for Supply and fixing of Splicing Clamp Assembly for 107 sq. mm Contact Wire (Crocodile Type) including all accessories.

Sch. 03 Sl. No. 16 :- Supply and fixing Catenary Wire Splice 65 Sq. mm.

The price shall cover for Supply and fixing Catenary Wire Splice 65 Sq. mm. including all accessories.

Sch. 03 Sl. No. 17 :- Supply and fixing Catenary Wire Splice 125 Sq. mm.

The price shall cover for Supply and fixing Catenary Wire Splice 125 Sq. mm including all accessories.

Sch. 03 Sl. No. 18 :- Supply and fixing Positive and Negative Feeder wire splice AAAC conductor.

The price shall cover for Supply and fixing Feeder wire splice for Positive and Negative Feeder wire conductor including all accessories.

Sch. 03 Sl. No. 19 :- Supply and fixing Aerial Earth wire splice for 181.6 sq. mm ACSR conductor.

The price shall cover for Supply and fixing Aerial Earth wire splice for 181.6 sq. mm ACSR conductor including all accessories.

Sch. 03 Sl. No. 20 :- Replacement / Re-erection of various types of insulators

The job shall cover replacement of insulators of various types with all components required for the insulator's assembly including small parts steel work with bolts & nuts etc. as per the relevant DFCCIL drawings. The insulators are replaced when they are heavily flashed, petticoat broken, breakage of insulator etc. Insulator and SPS will be supplied by DFCCIL.

Sch. 03 Sl. No. 21 :- Erection of material for solid core cut in insulator

The price shall cover for Erection of material for solid core cut in insulator as per DFCCIL drawing.

Sch. 03 Sl. No. 22 :- Erection of material for suspension insulator

The price shall cover for Erection of material for suspension insulator as per DFCCIL drawing.

Sch. 03 Sl. No. 23 :- Erection of material for Regulating Equipment (ATD)

The price shall cover for Erection of material for Regulating Equipment (ATD) as per DFCCIL drawings. The price shall cover erection of a 3/5-Pulley type counter weight assembly suitable for 2000/2400 kgf tension (3:1/5:1 ratio) as per the Employer's requirement including 9 ton adjuster with double strap

assembly and normal/anti-theft guide tube assembly, counter weigh assembly, provision of adequate length pipe on Hex-Tie rod at crossovers and short tension length ATDs wherever required and stainless steel wire rope required for the regulating equipment, anti-slipping device assembly, forged fittings (mast bracket clevis 3071-1, clevis pin 3072) and small part steel work, if any. Wherever applicable, fittings shall be forged type. The price shall also cover adjustment of the entire regulating equipment.

Sch. 03 Sl. No. 24 :- Erection of Material for termination of single/double conductor of overhead equipment

The price shall cover for Erection of Material for termination of single/double conductor of overhead equipment as per DFCCIL drawings. The price shall cover erection all material necessary for the yoked termination of two overhead equipment conductors on a traction mast or structure, including all SPS such as appropriate mast anchor fittings, clevis assembly, two adjusters, ending clamps for catenary and contact wires, anchor double strap assembly, equalizing/compensating plates, and double eye distance rods (if required) and fittings and terminating wire, if any including 9-ton insulators assembly. The price shall also cover erection of all materials with 9 ton insulator.

Sch. 03 Sl. No. 25 :- Erection of 25 kV SP Isolator with all material as required.

The prices shall cover erection of isolator switches, complete with arcing horns, operating rods, operating rod guides, and mounting base including erection of 25 KV Solid Core Post and Operating rod insulator.

The price shall also cover erection of a number plate of approved design and erection of small parts steel work complete with bolts and nuts etc. for support of each isolator and for support of operating rods on gantries/ masts, jumper connectors and post insulator to support jumper. The price shall also cover erection of pad lock, integral lock and interlock if required. The price excludes provision of pipe electrode earthing.

Sch. 03 Sl. No. 26 :- Erection of 25 kV DP Isolator with all material as required.

The price shall cover erection of a double pole isolator complete with mounting base, operating rod, operating rod guides required for the operation of the isolator, jumper connectors. The price shall also cover erection of aluminum- copper strips, a pad-lock, integral lock and interlock if required, a number plate of approved design for each isolator, erection of small parts steel works for support of isolators and for support of operating rods on gantries masts including erection of 25 KV Solid Core Post and Operating rod insulator.

The price shall also cover erection of an earth contact assembly in the isolator if required. The price shall cover the cost of erection of 3 x 25 mm copper connections between earth contact assembly and the structures.

The price shall cover erection of an interlocking mechanism on an isolator along with small parts steel if any, to permit working of two or more isolators. The price excludes provision of pipe electrode earthing.

Sch. 03 Sl. No. 27 :- Erection of structure bonds.

The price shall cover for Erection of structure bonds as per DFCCIL drawing.

Sch. 03 Sl. No. 28 :- Removal of & Re connection of bonds of various type during track machine working.

The work shall include the removal and reconnection of bonds during track machine working.

Sch. 03 Sl. No. 29 :- Drilling for hole for Bond.

The price shall cover the drilling of holes in mast / rails with contractor's own labour and T&P complete in the supervision of Engineer 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 in charge. All released materials to be handed over to DFCCIL.

Sch. 03 Sl. No. 30 :- Supply of material for single earth electrode.

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/ rock. The price shall cover the supply of a protective concrete box with removable cover as shown in the drawing.

Sch. 03 Sl. No. 31 :- Erection of material for single earth electrode.

The price shall cover for erection of material for single earth electrode as per DFCCIL drawing. The price shall cover erection of an earth electrode in all types of soil except hard soil/ rock. The price shall cover the erection 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. 03 Sl. No. 32 :- Preparation of design and drawing for overhead equipment and verification as per plan.

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 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 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-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, 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.
- (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. 03 Sl. No. 33 :- Erection of Section Insulator assembly and associate Fittings & fasteners.

The price shall cover erection and adjustment of all components required for a standard section insulator assembly (serving both the overhead equipment conductors) including 9 ton insulator, bar insulator special droppers etc. for supporting the equipment and all terminal fittings for conductors and the section insulator assembly, dropper wires as required as per DFCCIL drawings.

Sch. 03 Sl. No. 34 :- Erection of PTFE neutral section assembly and associate Fittings & fasteners.

The price shall cover erection and adjustment of PTFE type short neutral sections assembly and fittings complete as per latest DFCCIL specification.

Sch. 03 Sl. No. 35 :- Supply and erection of Guy rod assembly.

The price shall cover supply and erection of a guy rod assembly of various lengths for traction masts/Portals/TTC, feeder line towers or supports etc. complete with mast guy rod fittings, guy rod with adjustments and part/s to be grouted in the anchor block. The price shall not include the cost of supply and erection of a dwarf or stub mast with anchor plates drilled and welded in position, where required for anchorage, and small parts steel work, complete with bolts and nuts etc., if any for attaching the mast guy rod fittings to the mast/structure which shall be paid for separately under the relevant item.

Sch. 03 Sl. No. 36 :- Erection of material for Guy rod assembly

The price shall cover for Erection of material for Guy rod assembly as per DFCCIL drawings. The price shall cover erection of a guy rod assembly of various lengths for traction masts/Portals/TTC, feeder line towers or supports etc. complete with mast guy rod fittings, guy rod with adjustments and part/sto be grouted in the anchor block.

Sch. 03 Sl. No. 37 :- Supply and Erection of Retro-reflective type boards- 25KV AC OHE danger board/danger board for height gauge, public, staff caution board and special boards.

The payment under this item shall cover supply and erection of Retro-reflective type boards- 25 KV AC danger board, danger board for height gauge, public/ staff caution boards and special boards on uniform basis as decided by the engineer. DFCCIL will advise the requirement of the various types of boards and location to contractor. The above payment shall also include supply of necessary clamps, nuts, and bolts etc., required for the erection of the boards. Caution boards shall be made in bi/Tri-

lingual languages i.e Hindi/English and vernacular language, where ever required and same will be advised to contractor. The various types of above boards to be supplied shall be as per the standard size and standard specification of Railways/DFCCIL.

This item shall also cover special caution boards to be provided on all departmental vehicles, track machines, platform shelters as per Railway board letter No. 2009/RE/161/4 FTS-748 dtd.26-08-14 as per directions of the engineer.

Sch. 03 Sl. No. 38 :- Supply and erection of OHE Retro reflecting number plate including plate fixing.

The price shall cover providing and fixing of OHE Retro reflecting number plate including plate fixing with all complete accessories.

Sch. 03 Sl. No. 39 :- Supply and erection of caution board.

The price shall cover providing and fixing of caution board including with all complete accessories.

Sch. 03 Sl. No. 40 :- Stenciling/Painting of rail level, implantation, MRL, ERL & location number etc. SED Parameters

The job shall cover painting of OHE mast upto 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., including erasing of old details as advised by DFCCIL authorized representative if required. The job shall cover all costs toward required various sizes of paint brushes, paint and labour etc.

The job shall also cover painting of Location number on OHE mast / Structures such as KM number & Location number etc., including erasing of old details by covering aluminium painting as advised by DFCCIL authorized representative if required.

Sch. 03 Sl. No. 41 :- Painting of counter weight of ATD & guy rod assembly including marking of X & Y value.

The price shall cover painting of Counter Weight of ATD & Guy Rod Assembly including marking of X & Y Value for 15°C, 35°C & 45°C etc 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 authorized representative. ISI mark good quality paint shall be used and the same to be supplied by the Contractor.

Sch. 03 Sl. No. 42 :- Trimming of tree branches to maintain minimum 5 to 6 meter clearance from OHE

The price shall cover trimming of tree branches as identified by foot patrolling staff / during other inspection / checking as per requirement of DFCCIL. 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.

Sch. 03 Sl. No. 43 :- Checking & Maintenance of Portal boom, drop arms and fabricated Masts free from foreign body including Bird Nests

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.

The scope of work for general reference is as under:-

2x25kV HIGH RISE OHE installations maintenance schedule:-

1. Cantilever: (As per DFCC Maintenance Manual)

- 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. 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.
- viii. Check droppers and tighten bolts wherever required.
- ix. Clean insulators and replace defective insulators as per approved maintenance plan.
- x. Check staggers carefully on Tangent and Curved lines.
- xi. Check and ensure exact Encumbrance and steady clearance as per site.
- xii. Check kinks and twist on contact wire and removed.
- xiii. Check all bolts, nuts, check nuts, pins etc.
- xiv. Checking of RRA clamps and contact wire at double cantilevers.
- xv. Miscellaneous, if any.

2. Turn Outs & Crossovers: (As per DFCC Maintenance Manual)

- a. With HIGH RISE OHE Inspection Car running on main line check up if pantograph glides smoothly under the loop line HIGH RISE OHE.
- b. With HIGH RISE OHE Inspection Car running on loop line check up if pantograph glides smoothly under the main line HIGH RISE OHE.
- c. Check stagger of both the HIGH RISE OHEs at turn outs. (It shall not normally exceed 300mm).

- d. Check that the main line HIGH RISE OHE of overlap type turn out is about 50mm below that of the turnout HIGH RISE OHE.
- e. Checkup cross contact bar, if any, for displacement and distortion.
- f. Check up for hit marks, if any.
- g. Checkup rail level and setting of the obligatory mast.
- h. Check up for hard spots near rigid droppers, if any.
- i. Miscellaneous, if any.

3. Isolators: (As per DFCC Maintenance Manual)

- a. Check number plates for cleanliness and security.
- b. Check correctness of operation, alignment of contacts and arcing horns.
- c. Check earth continuity where applicable.
- d. Lubricate moving parts and locks.
- e. Check interlocks where provided.
- f. Check that the distance between male and female contacts in open position as per drawing depending upon the type of isolator.
- g. Miscellaneous, if any.

4. Section Insulators:(As per DFCC Maintenance Manual)

- a. Replace defective insulators as per maintenance manual.
- b. Check runners for flash-marks, hit marks and proper adjustment,
- c. Check for excessive contact wire wear near anchor clamps,
- d. Check the level of the assembly and adjust if necessary,
- e. Tighten PG clamps of droppers and stiffeners.
- f. Miscellaneous, if any

5. Overlaps:(As per DFCC Maintenance Manual)

- a) Check height and stagger of HIGH RISE OHE in the overlap section.
- b) Check whether the lifting of out-of-run HIGH RISE OHE is correct.
- c) Check that parallel running of contact wires in the overlap for a minimum 2m in the panto sweep region.
- d) Miscellaneous, if any.

6. ATDs:(As per DFCC Maintenance Manual)

Regulating Equipment:

- a) 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.
- b) Check that the compensating plate is vertical. If not, adjust as required.
- c) Lubricate pulleys and other moving parts.
- d) Check if 20mm wide bands in black colour are painted on the mast to indicate

upper and lower limits of movement of counter weight.

- e) Check condition of stainless-steel wire rope for any signs of corrosion and breakage of strands.
- f) Ensure the availability of correct length sleeves, if not available same are to be provided.
- g) Miscellaneous, if any.

7. Insulators: (As per DFCC Maintenance Manual)

Checking the insulators at regular intervals as per maintenance manual and approved drawings.

8. Jumpers: (As per DFCC Maintenance Manual)

All kinds of Jumpers with broken strands should be invariably replaced as per maintenance manual and approved drawings. Broken strands are most likely at the point of entry into PG clamps, possibly due to sharp edges in the clamp. PG clamps should have properly rounded off edges to prevent the cutting of strands. The clamps should be checked for signs of overheating and proper tightness.

9. Splice: (As per DFCC Maintenance Manual)

The splice in HIGH RISE OHE becomes necessary when a small length requires replacement as a result of excessive wear or restoration after breakdown as per maintenance manual.

The main points requiring attention during inspection of splice fittings are :

- 1. Careful examination for cracks or other casting defects or abnormalities.
 - 2. In case of catenary splice fitting tightness of the right-hand and left-hand joint sockets.
 - 3. Check to see if any slipping of the ends of two contact wires has taken place. When viewed through the top window, there should be no gap between the two contact wire ends.
 - 4. Tightness of the stainless steel studs.
- Note : Contact wire splices should not be re-used.

10. Leaning mast: (As per DFCC Maintenance Manual)

Masts which appear to be out-of-plumb should be checked with a plumb bob. Since the normal height of the contact wire is 5.80m 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.

During patrolling and inspection, make a particular check 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.

Note: To eliminate excess/abnormal leaning mast suitable foundation to be cast and new mast to be provided.

11. Foot patrolling: (As per DFCC Maintenance Manual)

- 1. The object of foot-patrolling is to make visual inspection of every part of the HIGH RISE OHE (including feeder line) so that any defects and abnormalities noticed are recorded and reported to the maintenance gangs for attention.

2. 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.
 3. The staff/labour on patrol duty should particularly look for the following:
 4. Damaged insulators.
 5. Displaced fittings and droppers.
 6. Excessive sagging or hogging of contact wire.
 7. Whether equalizing plate is tilted.
 8. Free movement of auto-tensioning device and position of with counterweight reference to upper and lower limits of movement marked on the mast.
 9. Presence of protective screens, caution and warning boards and ant climbing devices.
 10. Structural soundness of height gauges at level crossings.
 11. Bird-nests and pieces of stray wire likely to cause short circuits and branches of trees likely to infringe the HIGH RISE OHE;
 12. Defective bonds and earth connections;
 13. Any obstructions including tree branches in the way of free movement of pantograph and trains;
 14. Signs of heavy sparking when trains pass;
 15. Isolators blades being fully in and for signs of sparking or overheating of
 16. isolators also condition of locks;
 17. General condition of switching stations en-route;
 18. Tilting of masts especially on high banks and masts with sand-core foundations;
 19. Number plates.
 20. Any other abnormal/unusual situation.
 21. Miscellaneous, if any.
- 12. Anti-Creep: (As per DFCC Maintenance Manual)**
- i. Check the tightness of suspension clamps bolts.
 - ii. Check the healthiness of double suspension clamps.
 - iii. Ensure availability of every part.
 - iv. Miscellaneous, if any.
- 13. HIGH RISE OHE Conductors by Tower car: (As per DFCC Maintenance Manual)**
- i. Ensure smooth passage of pantograph.
 - ii. Recording of contact wire height and staggers, and adjust to be done if required.

- iii. Checking and tightening of all kinds of PG clamp available. Contact & Catenary splices are to be provided if required.
- iv. Contact & Catenary splices are to be provided if required.
- v. Checking of in span droppers and if found no load taken are to be replaced.
- vi. Replacement of catenary and dropper clips if required.
- vii. Miscellaneous, if any.

14. Rail level and setting distance: (As per DFCC Maintenance Manual)

During periodical checking rail level and setting distance should be found out against the GPS Coordinates as per executed works and the same shall be rectified by the concerned party.

15. Checking and Maintenance of Portal Booms: (As per DFCC Maintenance Manual)

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.

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

PART-II
CHAPTER-I
TENDER FORMS

OFFER LETTER

Tender No: CGM/DFCCIL/NOIDA UNIT/ELECTRICAL OHE MAINTENANCE/2023/1

Name of Work: Maintenance of 2x25 kV High Rise Over Head Equipment on New Rewari - New Dadri section of DFCCIL including the connections to Indian Railways & ICD under CGM Noida Unit.

**To,
The Chief General Manager/Noida,
DFCCIL**

We, the undersigned, declare that:

1. 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 Railways 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. Full value of the Bid Security shall stand forfeited without prejudice to any other right or remedies in case my/our Tender is accepted and if:
 - (a) I/We do not submit the Performance Guarantee within the time specified in the Tender document;
 - (b) I/We do not execute the contract documents within seven days after receipt of notice issued by the Railway that such documents are ready; and
 - (c) I/We do not commence the work within fifteen days after receipt of orders to that effect.
4. I/We am/are a Start-up firm registered by Department of Industrial Policy and Promotion (DIPP) and my registration number is valid upto..... (Copy enclosed) and hence exempted from submission of Bid Security.
5. We are a Labour 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)

.....

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

(To be executed in presence of Public Notary on non-judicial stamp paper of the value of Rs. 100/- The stamp paper has to be in the name of the tenderer)

Tender No: CGM/DFCCIL/NOIDA UNIT/ELECTRICAL OHE MAINTENANCE/2023/1

Name of Work: Maintenance of 2x25 kV High Rise Over Head Equipment on New Rewari - New Dadri section of DFCCIL including the connections to Indian Railways & ICD under CGM Noida Unit.

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

1. I/We the tenderer (s) am/are signing this document after carefully reading the contents.
2. I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3. I/We hereby declare that I/We have downloaded the tender documents from Indian Railway 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 shall be final and binding upon me/us.
4. I/We declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5. I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6. I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7. I/We certify that I/We the tenderer(s) is/are not blacklisted or debarred by Railways/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.
8. 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 tenderer) ** a period of upto five year. Further, I/we

(Insert name of the and all my/our constituents understand that my/our offer shall be summarily rejected.

9. I/We also understand that if the contents of the certificate submitted by us are found to be false/forged or incorrect at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee besides any other action provided in the contract including banning of business for a period of upto five year.
10. I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/we are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

SEAL AND SIGNATURE OF THE TENDERER

Place:

Dated:

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

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

TENDERER'S CREDENTIALS

S. No.	Description
1	For Technical experience/competence, provide details of similar completed work(s) during the last Seven (07) years, ending last day of month previous to the one in which tender is invited in the proforma given in "Form-2A/2AA". The bidder shall attach Certified completion certificates issued by the client in this regard.
2	For Financial capacity and organizational resources, provide details of contractual payments received in the last three financial years and the current financial year upto the date of inviting of tender as per audited balance sheet duly certified by Chartered Accountant/UDIN Certificate from Chartered Accountant duly supported by Audited Balance Sheet/Form 16A/26AS, etc., in the proforma given in "Form-2B". The bidder shall attach necessary documents in support of the above duly certified by Chartered Accountant.
3	For Bid capacity provide details of existing commitments and balance amount of ongoing works with tenderer as per the prescribed proforma "Form-2C" 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. In case of no works in hand, a 'NIL' statement should be furnished. This statement should be submitted duly verified by Chartered Accountant.
4	Tenderers should fill the general information about their firm including constitution of the firm in "Form-2D". Attach certified copies of legal and other documents in support thereof.

TECHNICAL ELIGIBILITY CRITERIA DETAILS

Details of the similar works completed for Govt./Semi-Govt./PSU (as per Para 1.3.12.1 of Preamble and General Instructions to Tenderers)

LOA/Contract Agreement No. and Date Similar Contract No.	
Description of Work Contract Identification	
Contract Amount as per LOA	
Final Executed Amount as per Completion Certificate.	
Date of Completion as per LOA	
Actual Date of Completion Completion Date	
Whether the work was executed by Firm as single entity or as a Joint Venture or as a Consortium.	
Percentage share of firm, if the work was executed as Joint Venture/Consortium	
Client Details: Name of Firm and Contact Person: Address: Mobile, Telephone, FAX Number: E-Mail:	

Note:

1. If the tenderer has completed more than one work, the form shall be numbered as Form No. 2A (i), Form 2A (ii) and Form 2A (iii) and so on.
2. The bidder shall attach Certified Completion Certificate for the works issued by the client with Form 2A above.
3. Copy of Work Experience/Completion Certificate, LOA, work order, bill of quantities etc., and copy of final/last bill paid by client shall be enclosed to verify the information given in above Form.
4. In case of JV, the bidder shall attach Certified completion certificates for each member of JV issued by the client as per Para 1.3.17.15.1 of Part-I Chapter-III of the Tender Document.

Signature of the Tenderer with Seal

TECHNICAL ELIGIBILITY CRITERIA DETAILS

Details of the similar works completed for Public Listed Company (as per Para 1.3.12.1 of Preamble and General Instructions to Tenderers)

LOA/Contract Agreement No. and Date	
Description of Work	
Contract Amount as per LOA	
Final Executed Amount as per Completion Certificate.	
Date of Completion as per LOA	
Actual Date of Completion	
Is Average Annual Turnover of the Client Firm being Rs. 500 Crore and above in last 3 Financial Years excluding the Current Financial Year? (Enclose supporting documents)	
Is the Client Firm listed on BSE/NSE or any other Stock Exchange in India or abroad or is the client Subsidiary of such Company? (Enclose supporting documents)	
Is the Client Firm incorporated/registered at least 5 Years prior to the date of Opening of Tender? (Enclose supporting documents)	
Client Details: Name of Firm and Contact Person: Address: Mobile, Telephone, FAX Number: E-Mail:	

Note:

1. If the tenderer has completed more than one work, the form shall be numbered as Form-2AA (i), Form 2AA (ii) and Form 2AA (iii) and so on.
2. The bidder shall attach Certified Completion Certificate for the works issued by the client with Form 2AA above
3. Copy of Work Experience/Completion Certificate, LOA, 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 to be enclosed to verify the information given in above Form.
4. In case of JV, the bidder shall attach Certified completion certificates for each member of JV issued by the client as per Para 1.3.17.15.1 of Part-I Chapter-III of the Tender Document.

Signature of the Tenderer with Seal

FINANCIAL ELIGIBILITY CRITERIA DETAILS

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.

Signature of the Bidder with Seal

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

Sign and Seal of the Chartered Accountant/Auditors

ICAI Registration No.

UDIN No. of the certificate issued as above.

(NOT APPLICABLE FOR THIS WORK)**FORM No. 2C**

BID CAPACITY	
Tender No:	CGM/DFCCIL/NOIDA UNIT/ELECTRICAL OHE MAINTENANCE/2023/1
Name of Work: Maintenance of 2x25 kV High Rise Over Head Equipment on New Rewari - New Dadri section of DFCCIL including the connections to Indian Railways & ICD under CGM Noida Unit.	
Bid Capacity: The bidding capacity of the contractor should be equal to or more than the total bid value of the present tender. The available bid capacity shall be calculated by the following formula:	
$\text{Available Bid Capacity} = [A \times N \times 2] - 0.33 \times N \times B$ <p>Where,</p> <p>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.</p> <p>N= Number of years prescribed for completion of work for which bids has been invited.</p> <p>B = 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 (Format enclosed as Annexure-A)</p>	

Note:

1. In case of JV, the above statement should be submitted for each member of JV.
2. In case of JV, the arithmetic sum of individual "Bid Capacity" of all the members shall be taken as JV's "Bid capacity" to satisfy this requirement.

BID CAPACITY CALCULATION BY BIDDER

SIGN & STAMP OF BIDDER

ANNEXURE-A									
LIST OF EXISTING COMMITMENT AND ONGOING WORKS AND THE WORKS WHICH ARE AWARDED TO TENDERER BUT NOT YET STARTED UPTO THE DATE OF INVITING THE TENDER.									
S. No.	Name of Work	Client Name & Address	Awarded Value/Latest Assessment Value of Work depending upon approved Variation (Rs.)	Work Executed till Tender Submission Date (Rs)	Balance Amount of work to be completed (Rs)	Date of Award of Work	Completion Date (as approved latest as per EOT)	Balance period to complete the Works (Total Months)	Work to be completed in 12 Months (Rs)
1	2	3	4	5	6 (4-5)	7	8	9 (8-7)	10
Balance Commitments during next 12 Months								Rs.	

It is certified that the above particulars furnished are true and correct.

Note:

The above statement should be submitted duly verified by Chartered Accountant.

In case of no works in hand, a “NIL” statement should be furnished.

In case the tenderer failed to submit the bid capacity statement along with the offer, their/his offer shall be considered as incomplete and will be summarily rejected.

Please note that all the columns in above table are to be essentially filled up by the tenderer.

Value in Column-10 will be taken same as Column-6 if existing DOC is within the completion period of this tender i.e., 12 months.

If existing DOC of tabulated works is beyond the DOC of tender under consideration, then Pro-rata amount of total balance amount as shown in column no. 6 will be taken.

All period of time for calculation purpose be round up to number of months to nearest interior.

Sign and Seal of the Chartered Accountant/Auditors

ICAI Registration No.

UDIN No. of the certificate issued as above.

Signature of the Tenderer with Seal

APPLICANT'S PARTY INFORMATION FORM

S. No.	Item	Detail
1	Name of the Firm.	
2	Constitution of Firm (Company/Partnership Firm /Proprietorship Firm/LLP/HUF/JV, etc.	
3	Name of Authorized Representative of the Firm Submitting the Tender:	
4	Year of Establishment of the Firm.	
5	Registered Address:	
6	Telephone Number & Mobile Number of the Authorized Representative of the Firm	
7	E-Mail Address of the Authorized Representative	
8	Tele-FAX Number	
9	PAN No.	
10	Goods & Service Tax Registration No.	
11	PF/EPF Registration No.	
12	ESI Registration No.	

Note:

1. Attach supporting documents as mentioned in Para 1.3.14 of Part-I, Chapter-III of Tender Document for Item No. 2.
2. Attach latest valid documentary evidence for Item No. 9 to 12.

Signature of the Tenderer with Seal

SUMMARY OF PRICES			
Maintenance of 2x25 kV high rise Over Head Equipment on New Rewari - New Dadri section of DFCCIL including the connection to Indian Railways under CGM Noida Unit.			
S. No.	Description of Schedules		Cost (Rs.)
	Details of Schedules	Nomenclature	Total Cost (Excluding GST)
1	Schedule-1	Regular Maintenance Activity	Rs. 1,54,20,317.94
2	Schedule-2	Break Down Gang	Rs. 64,99,703.52
3	Schedule-3	Other OHE Activities	Rs. 30,00,000.00
4	Schedule-4	Hiring of Breakdown Vehicle	Rs. 20,12,901.84
5	Schedule-5	Additional OHE items (Spares & Tools)	Rs. 15,00,000.00
Total			Rs. 2,84,32,923.00
Grand Total inc GST @ 18%			Rs. 3,35,50,849.00

Note:

1. This proforma is just for information and perusal. However, the rates are to be filled in Online mode in Bid at IREPS Portal.
2. All efforts have been made to make the document/BOQ complete in all respect for successful commissioning of the works, however, if any minor item has not been specifically mentioned or being omitted, the same shall be executed without any extra cost by the agency, so as to ensure successful and satisfactory commissioning of the item/work. In this regard, decision of DFCCIL shall be final & binding.

(Schedule of Prices and Total Prices)

Name of Work: Maintenance of 2x25 kV high rise Over Head Equipment on New Rewari - New Dadri section of DFCCIL including the connection to Indian Railways months under CGM Noida Unit.

BOQ

Description of Work:- Maintenance of 2x25 kV high rise Over Head Equipment on New Rewari - New Dadri section of DFCCIL including the connection to Indian Railways under CGM Noida Unit.

OHE Maintenance Activity**Schedule -01 Regular Maintenance Activity**

S.No	Description of Work	Unit	Qty. (For two years)	Unit Rate excluding GST	Total Amount (Rs.)
1	Checking and Maintenance of Cantilever assembly	Each	5950	754.60	Rs. 44,89,870.00
2	Checking and maintenance of 25 kV OHE conductors	TKM	265	4826.86	Rs. 12,79,117.90
3	Checking and maintenance of Positive and Negative Feeder Termination and AEC termination	Each	340	347.19	Rs. 1,18,044.60
4	Checking and maintenance of 25 kV OHE Positive and Negative feeder & AEC conductors excluding termination arrangement	TKM	265	1810.07	Rs. 4,79,668.55
5	Checking & maintenance of all type of 25 KV OHE Jumpers not covered in other items	Each	638	441.36	Rs. 2,81,587.68
6	Checking & maintenance of Overlaps (IOL) & (UIOL)	Each	646	1609.29	Rs. 10,39,601.34
7	Checking & Maintenance of Anti Creep arrangement	Each	213	1206.97	Rs. 2,57,084.61
8	Checking & Maintenance of 25 KV Isolator (SP/DP) including earthing heel arrangement if any.	Each	17	1291.03	Rs. 21,947.51
9	Checking & Maintenance of 25 KV OHE at Turnouts	Each	85	3713.97	Rs. 3,15,687.45
10	Checking & Maintenance of 25 KV OHE on a cross over	Each	85	2473.97	Rs. 2,10,287.45
11	Checking & Maintenance of Section Insulator Assembly	Each	510	1237.99	Rs. 6,31,374.90
12	Checking & Maintenance of Auto tension Device (ATD)	Each	1190	2614.09	Rs. 31,10,767.10
13	Foot patrolling to be carried out along with schedule with one DFCCIL staff	TKM	12852	144.12	Rs. 18,52,230.24
14	Checking & maintenance of all type of bonds including BEC Connection, cleaning of muffs at OHE mast	Each	1700	29.03	Rs. 49,351.00

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15	Checking & Maintenance of PTFE type neutral section	Each	68	5247.19	Rs. 3,56,808.92
16	Maintenance of AT (Auxiliary transformer) at stations & open section	Each	435	861.69	Rs. 3,74,835.15
17	Maintenance of 25 KV dropout fuse of AT at stations & open section (including providing and replacement)	Nos	54	945.76	Rs. 51,071.04
18	Checking and compilation of hotspot of OHE using Thermo vision camera by a skilled Engineer under supervision of DFCCIL Engineer	Per Track KM	530	945.25	Rs. 5,00,982.50
	Schedule 01 -Total				Rs. 1,54,20,317.94

Schedule -02 Break Down Gang

S.No	Description of Work	Unit	Qty.	Unit Rate (Excluding GST)	Total Amount (Rs.)
1	OHE Break Down Gang consisting of 07 nos. of staff (1 Highly skilled, 3 nos. Skilled and 3 nos. of unskilled Man power)				
a	High skilled Man Power	Man Month	48	Rs. 24,810.51	Rs. 11,90,904.48
b	Skilled Man Power	Man Month	144	Rs. 21,416.25	Rs. 30,83,940.00
c	Un-skilled manpower	Man Month	144	Rs. 15,450.41	Rs. 22,24,859.04
	Schedule 02 -Total				Rs. 64,99,703.52

Schedule 03 - Other OHE activities

S.No	Description of Work	Unit	Qty.	Unit Rate (Excluding GST)	Total Amount (Rs.)
1	Manning and Housekeeping the IMSD.	Man Day		Rs. 649.52	
2	Loading, unloading of DFCCIL supplied material to places directed by Engineer incharge (i.e. From station to tower wagon, station to station etc.)(Applicable for material more than 2 MT)	Each occasion		Rs. 3,898.12	
3	Breakdown attention by a gang for restoration of 25 KV OHE during accidents/ unusual occurrence - (one gang consisting of 7 staff)	Hour		Rs. 1,526.22	
4	Erection of 25 KV over head equipment as per requirement	per TKM		Rs. 41,767.39	

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5	Checking & maintenance of leaning of OHE mast till a new mast erected	Each		Rs. 3,441.75	
6	Casting of all types of foundation (The rate includes supply of the material- ballast, sand, cement, mixture & reinforcement etc.)	CuM		Rs. 7,190.75	
7	Dismantling of traction structure, Portals, TTC and associate SPS by cutting	MT		Rs. 1,541.07	
8	Transfer of OHE equipment from one mast or support to another.	Each		Rs. 1,136.69	
9	Erection of rolled / fabricated and galvanized traction mast, TTC, Portals, AT Mast, Feeder Mast, bridge mast etc.	MT		Rs. 6,429.47	
10	Erection of Cantilevers	Each		Rs. 1,533.93	
11	Erection of large span wire	Mtr		Rs. 70.53	
12	Erection of Anticreep wire	Each		Rs. 3,182.14	
13	Slewing of OHE	Span		Rs. 3,206.25	
14	Supply and fixing of Splicing Clamp Assembly For 150 sq. mm Contact Wire (Crocodile Type)	Each		Rs. 5,175.66	
15	Supply and fixing of Splicing Clamp Assembly for 107 sq. mm Contact Wire (Crocodile Type)	Each		Rs. 2,587.50	
16	Supply and fixing Catenary Wire Splice 65 Sq. mm.	Each		Rs. 862.50	
17	Supply and fixing Catenary Wire Splice 125 Sq. mm	Each		Rs. 2,427.53	
18	Supply and fixing Feeder wire splice AAAC conductor Positive & Negative feeder	Each		Rs. 3,096.24	
19	Supply and fixing Aerial Earth wire splice for 181.6 sq. mm ACSR conductor	Each		Rs. 1,416.80	
20	Replacement / Re-erection of various types of insulators	Each		Rs. 860.69	
21	Erection of material for solid core cut in insulator	Each		Rs. 590.18	
22	Erection of material for suspension insulator	Each		Rs. 416.97	
23	Erection of material for Regulating Equipment (ATD)	Each		Rs. 4,398.89	
24	Erection of Material for termination of single/double conductor of overhead equipment	Each		Rs. 1,698.21	
25	Erection of 25 kV SP Isolator with all material as required.	Each		Rs. 5,646.43	
26	Erection of 25 kV DP Isolator with all material as required.	Each		Rs. 6,183.03	
27	Erection of structure bonds	Each		Rs. 224.28	

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28	Removal of & Re erection of bonds of various type during track machine working or Erection of missing/new bonds including Paint etc.	Each		Rs. 75.06	
29	Drilling for hole for Bond	Each		Rs. 38.39	
30	Supply of material for single earth electrode	Each		Rs. 2,254.47	
31	Erection of material for single earth electrode	Each		Rs. 1,028.57	
32	Preparation of design and drawing for over head equipment and verification as per plan	TKM		Rs. 12,841.07	
33	Erection of Section Insulator assembly and associate Fittings & fasteners.	Each		Rs. 5,458.93	
34	Erection of PTFE neutral section assembly and associate Fittings & fasteners	Each		Rs. 7,069.64	
35	Supply and erection of Guy rod assembly	Each		Rs. 8,958.93	
36	Erection of material for Guy rod assembly	Each		Rs. 1,103.57	
37	Supply and Erection of Retro-reflective type boards- 25KV AC OHE danger board/danger board for height gauge, public, staff caution board and special boards.etc	Each		Rs. 529.47	
38	Supply and erection of OHE Retro reflecting number plate including plate fixing.	Each		Rs. 695.76	
39	Supply and erection of caution board	Each		Rs. 282.03	
40	Stencilling/Painting of rail level, implantation, MRL, ERL, location number & SED Parameters e.t.c	Each		Rs. 80.86	
41	Painting of counter weight of ATD & guy rod assembly including marking of X & Y value.	Each		Rs. 571.43	
42	Trimming of tree branches to maintain minimum 5-to-6-meter clearance from OHE.	Each		Rs. 26.02	
43	Checking and Maintenance of Portal boom & drop arms free from foreign body including bird nests	Each		Rs. 384.31	
	Schedule-03 - Total			Lumpsum price	Rs. 30,00,000.00

Schedule 04 - Hiring of Breakdown Vehicle

S.No	Description of Work	Unit	Qty.	Unit Rate (Excluding GST)	Total Amount (Rs.)
1	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, kutchra 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 in year 2021 or later	Vehicle Month	24	Rs. 76,570.91	Rs. 18,37,701.84
2	Extra 500 km per month for item 1, Schedule 04. (Extra Charges for running of each vehicle beyond 1500 km per month will be paid on average in a quarter).	Km	12000	Rs. 14.60	Rs. 1,75,200.00
	Schedule-04 - Total				Rs. 20,12,901.84

Schedule-05 Additional OHE items (Spares & Tools)

S.No	Description of Work	Unit	Qty.	Unit Rate (Excluding GST)	Total Amount (Rs.)
1	Supply of spares, tools & equipment required during maintenance & breakdowns for a period of 2 years- As per Appendix -A	As per Appendix-A	As per Site Requirement	As per Appendix -A	Rs. 15,00,000 (Lumpsum)

Total of all Schedules exc GST :- Rs. 2,84,32,923.00

Grand Total of all Schedules inc GST @ 18 % :- Rs. 3,35,50,849.00

Notes/Conditions:

1. The bidder shall quote his rates for all the Schedules of Form no 4 of the Tender Document individually on IREPS Portal.
2. The bidder shall quote his rates in %age below/above/at par, for Schedules 01, 03 & 04 rates on IREPS portal.
3. **For Schedule no 02, the bidder should not quote his rate below. Bidders quoting rates below will be disqualified.**
4. Offer with incomplete/ambiguous rate/conditional rate will not be considered.
5. GST as actual, will be reimbursed only after the contractor has submitted the proof of having actually paid the above taxes/charges.

Appendix -A

S. No.	Description of Item	Unit	Rate (Excluding GST)
1.	Counter weight Guide tubes (6.3m long) (RI NO: 5062-1 (S) for HIGH RISE OHE.	Nos	1600.00
2.	9 Tone adjuster complete with Both side eye (5020) for HIGH RISE OHE	Nos	601.9
3.	Anchor Double strap (set of 2 nos. of 5031) (RI NO: 5030) complete with nut ,bolt, washer & split pin (RI 5031)	Nos	171.31
4.	Typical Structural number plate (125mm size) ((RI No 7503) Size: 310mm x 340mm x 2mm	Nos	444.48
5.	Contact wire parallel clamp Large with GI bolt and nut 16x50/38 MM and spring washer B-16 as per RDSO Drg No ETI/OHE/P/1030-2 (Mod-D) (RI 1031-2)	Nos	225.02
6.	Contact wire parallel clamp (part 2 Nos of 1031-3) (RI NO 1030-3) (157-65/107/150) (RI 1031-3)	Nos	453.74
7.	Contact wire parallel clamp small Part no 1041-2 with fasteners Drg no ETI/OHE/P/1040-2 (Mod-E) (RI 1041-2)	Nos	225.02
8.	Parallel Clamp (150/105 - 150) RI No: 1050-2 (RI 1051-2)	Nos	453.74
9.	105 SQMM Large jumper wire annealed copper wire .	Metre	555.6
10.	50 Sqmm flexible copper jumper wire.	Metre	243.54
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	916.74
12.	160 sqmm Large jumper annealed flexible copper wire .	Metre	1529.00
13.	Post Insulator Jumper Clamp (set of 2 nos) (RI NO: 6094)	Nos	254.65
14.	Terminal Connector (19mm) Multiple hole (bolted type) (RI No:1009 & 1009-1)	Nos	1481.6
15.	Structure bonds (50X6)	Nos	570.16
16.	Single earth electrode (RI 7021)	Nos	2528.29
17.	GS Snap Pin 16x50 mm	Nos	32.41
18.	GS Flat Washer 16 mm	Nos	5.56
19.	GS Split Pin 4x32 mm	Nos	5.09
20.	GS Split Pin 4x36mm	Nos	5.56
21.	Anchor V Bolt	Nos	287.06
22.	Anchor Bolt RI 5001-3	Nos	282.43

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23.	Anchor Loop RI 5008	Nos	1342.70
24.	GS Bolt 16x 50/30 mm with Nut & Flat washer	Nos	25.93
25.	GS Bolt 16x 50/38 mm with Nut & Flat washer	Nos	25.93
26.	Copper Split Pin 2.5x25 mm	Nos	3.70
27.	Copper Split Pin 4x36 mm	Nos	8.33
28.	GS 'J' Bolt 16X55 mm with Nut & flat Washer	Nos	38.89
29.	GS 'J' Bolt 16X120 mm with Nut & flat Washer	Nos	76.00
30.	GS Bolt 12x100/30 with Nut, Locknut & Flat Washer	Nos	18.52
31.	GS Bolt 12x55/30 with Nut, Locknut & Flat Washer	Nos	15.74
32.	GS Bolt 12x75/30 with Nut, Locknut & Flat Washer	Nos	16.67
33.	GS Bolt 12x50/35with Nut, Locknut & Flat Washer	Nos	20.37
34.	GS Bolt 12x200/49 with Nut & Spring washer	Nos	32.41
35.	GS Bolt 16x40/38 with Nut, Locknut & Spring Washer	Nos	24.08
36.	GS Bolt 16x220/57 with Nut, Locknut & Flat Washer	Nos	50.93
37.	GS Bolt 16x260/57 with Nut, Locknut & Flat washer	Nos	55.56
38.	GS Bolt 16x300/57 with Nut, Locknut & Flat Washer	Nos	78.71
39.	GS Bolt 16x 360/57 with Nut, Locknut & Flat Washer	Nos	87.97
40.	GS Bolt 20x65/46 with Nut, Locknut & tapered washer	Nos	39.82
41.	GS Bolt 20x85/46 with Nut Lock nut & Tapered Washer	Nos	43.52
42.	GS Bolt 16x175/44 with Nut, Locknut & Flat Washer	Nos	44.49
43.	GS Bolt 16x 220/57 with Nut, Locknut & Flat Washer	Nos	49.08
44.	GS Bolt 10x50/26 with Nut & Flat Washer	Nos	13.89
45.	GS Bolt 16x65/38 with Nut, Locknut & Flat Washer	Nos	27.78
46.	GS Bolt 16x260/100 With Nut, Locknut	Nos	52.78
47.	GS Bolt 16x320/100 with Nut, Locknut	Nos	74.08
48.	GS bolt 20x50/37 with Nut, Locknut & Flat Washer	Nos	38.89
49.	GS bolt 20x260/65 with Nut, Locknut & Flat Washer	Nos	87.97
50.	GS bolt 20x280/65 with Nut, Locknut & Flat Washer	Nos	92.6
51.	GS bolt 20x330/65 with Nut, Locknut & Flat Washer	Nos	120.38
52.	GS bolt 16x360/57 with Nut, Locknut & Flat Washer	Nos	87.97
53.	GS bolt 24x70/54 with , Locknut & Copper Split Pin 5x40 mm	Nos	64.82
54.	GS bolt 20X85/37 with Nut, Locknut & Flat Washer	Nos	68
55.	Pin Contact wire Swivel Clip RI 1222	Nos	21.85
56.	Pin Copper Split 4x36 mm	Nos	9
57.	Pin Copper Split 4x40 mm	Nos	7
58.	Pin Copper Split 2.5x20 mm	Nos	5
59.	Pin "U" Copper for Contact Droper Clip RI 1181	Nos	14
60.	SNAP HEAD Pin Clevice GS 20x65 mm	Nos	36

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61.	SNAP HEAD Pin Clevice GS 20x105 mm	Nos	96
62.	SNAP HEAD Pin Snap Head GI 20x65	Nos	39
63.	SNAP HEAD Rivet Copper 6 x 50 mm	Nos	32
64.	SNAP HEAD Rivet Copper 12x65 mm	Nos	85
65.	SNAP HEAD Rivet Copper 6x55 mm	Nos	32
66.	SNAP HEAD Rivet Copper 6 x 50 mm	Nos	36
67.	Rivet Aluminium 6x35 mm	Nos	7
68.	Catenary Dropper Clip RI 1192	Nos	221
69.	Contact Wire Dropper Clip RI 1181	Nos	160.00
70.	SS Bolt 16x50	Nos	81
71.	SS Nut 16 mm Dia	Nos	30
72.	SS Lock Nut 16 mm Dia	Nos	24
73.	SS Bolt 12 X 60 / 30 mm	Nos	51
74.	SS Bolt 12x45x30	Nos	39
75.	SS Bolt 10 X 35 / 30 mm	Nos	26
76.	SS Bolt 10 X 25 / 30 mm	Nos	22
77.	SS Bolt with Nut, L. Nut & Washer 10x65x30	Nos	51
78.	SS Bolt 10x35/30 with hole	Nos	26
79.	SS Nut 10 mm	Nos	17
80.	SS Lock Nut 10 mm	Nos	5
81.	SS Nut 12 mm	Nos	13
82.	SS Lock Nut 12 mm	Nos	15
83.	Bull dog clamp for 65 Sq. mm catenary (10mm dia.) copper material	Nos	670
84.	Bull dog clamp for 125 Sq. mm catenary (14mm dia.) copper material	Nos	720
85.	Bull dog clamp steel rope (14mm Dia) steel material	Nos	320
86.	14mm dia steel rope for Emergency mast guy rod	MTR	364
87.	LV junction Box for 25 kVA Auxiliary Transformer	Nos	14000
88.	LV junction Box for 10 kVA AT Auxiliary Transformer	Nos	14000
89.	LV junction Box for 50 kVA AT Auxiliary Transformer	Nos	15500
90.	LV junction Box for 100 kVA AT Auxiliary Transformer	Nos	19500
91.	Sigma Board Retro Reflective	Nos	3120
92.	Supply of Retro - Reflective structure number plate as per RDSO Spec No. ETI/OHE/33A(12/97) Rev. 8	Nos	432.4
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	5830
94.	Drop out fuse (Fuse Link of 1A)	Nos	84.8

95.	Drop out fuse (Fuse Link of 5A)	Nos	116.6
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	22764.03
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	7210
PART- 2 Tools & Plant (T&P) for Operation & Maintenance of OHE work			
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	12622.65
2.	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. 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	21408.01
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	9189.28
4.	Supply of RATCHET LEVER HOIST(PULL LIFT) WITH ROLLER CHAIN (20 Meter) 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" & WDFC requirement 1.4 M LIFT OR LATEST. ACCEPTED MAKE : IM, OCC, TRACTEL, SAMSON, SHAKTI or Similar- RDSO Approved.	Nos	9785.07
5.	Supply of RATCHET LEVER HOIST(PULL LIFT) WITH ROLLER CHAIN (20 Meter) 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" & WDFC requirement 1.4 M LIFT OR LATEST. ACCEPTED MAKE : IM, OCC, TRACTEL, SAMSON, SHAKTI or Similar- RDSO Approved.	Nos	5806.42
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	2120.60
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 WITH LOAD TEST CERTIFIED. Make: IM/Shree Ram Engineers or Similar- RDSO Approved.	Nos	2120.60
8.	Supply of COME ALONG CLAMP FOR Contact WIRE SUITABLE FOR 150	Nos	2120.60

	SQMM 2.5 TONNE AS PER DRAWING NO. RE/33/P/550 & WDFC requirement WITH LOADTEST CERTIFIED. Make: IM/Shree Ram Engineers or Similar- RDSO Approved.		
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 WITH LOAD TEST CERTIFIED. Make: IM/Shree Ram Engineers or Similar- RDSO Approved.	Nos	2120.60
10.	Supply of Come along clamp for 181 sq.mm AEC Wire (ACSR) BOLT TYPE & WDFC requirement. Make- Sri ram Engineers or similar	Nos	8560
11.	Supply of Come along clamp for 288 sq.mm Feeder (AAAC) BOLT TYPE & WDFC requirement Make- Sri ram Engineers or similar	Nos	8560
12.	Supply of D' Shackles made of alloy steel. Set consisting one no. shackle of each size (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	656.37
13.	Supply of Single sleeve pulley block 3 1/2 x 1/2" groove steel with capacity 2.5 ton Make IM or similar RDSO approved.	Nos	1201.67
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	1265
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	1610
16.	Single sleeve pulley block 6"X1" groove steel with capacity 3 ton Make IM or similar RDSO approved.	Nos	1060.30
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	674.43
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	911.15
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	1145.25
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	1444.43
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	2759.96
22.	Supply of Contact wire twist cum bender for(107 Sq. mm and 150 sq.mm size wires) 6", Accepted make: IM or similar as per approved Drg No. IM/CWTB/05/12/101 Similar to RE/DNR drg.	Nos	681.62
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	5898.31
24.	Supply of Manilla rope 20 mm dia. Circular GRADE 1 MANILA ROPE WITHOUT ROT PROFFING AS PER IS 1084: 2005 AMDS 2	Meter	136
25.	Supply of Manilla rope 16 mm dia. Circular GRADE 1 MANILA ROPE WITHOUT ROT PROFFING AS PER IS 1084: 2005 AMDS 2	Meter	122
26.	Supply of Manilla rope 12 mm dia. Circular GRADE 1 MANILA ROPE WITHOUT ROT PROFFING AS PER IS 1084: 2005 AMDS 2	Meter	109
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	13325
28.	Hydraulic Crimping tools- Capacity 25 sq. mm to 400 sq. mm, Model: Ashoka-400, Make: Jainson	Nos	21067.2

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29.	Dropper making Jig and Wire straightener for 07 mm, as per Rly approved Drg No. IM/DMG/05/12/102, ,similar to RE/DNR drg.	Nos	20120
30.	Supply of Insulator testing machine Tensile load Testing machine for testing of 25 kV porcelain and composite insulator as per RDSO specification No. TI/SPC/OHE/INSTEST/0090 (02/2009) with A&C slip No. of latest (Hydrolic Insulator Testing Jig) Make : BCPL or CCSPL or any other RDSO approved.	Nos	254150
31.	Supply of Industrial Safety Helmet (White & Yellow) as per IS CODE 2951 : 1984 or latest Make: Karam or similar	Nos	311.85
32.	Supply of Industrial Safety belt and harness Class:A, as per IS 3521 or latest Make: Karam or similar	Nos	1237.5
33.	Supply of Rubber insulated Safety Hand Gloves 25/33 kV as per IS 4770-1991 or latest , Make: Jyoti/Vidyut/Karam	Nos	841.5
34.	Supply of Safety Anti acid hand gloves Make: Jyoti/Vidyut/Karam or similar	Nos	170
35.	Supply of Safety Shoes , Make : Allen Cooper/ Bata or similar , 7 No- 40, 8 No-40, 9 No-30, 10 No-10.	Nos	1133.55
36.	Supply of Safety Jacket as per IS 15809 (2008) or latest	Nos	176.22
37.	Supply of Protective Glass (Eye protection) Make: Karam/PEC/Venus	Nos	810
38.	Supply of Personal tool bag	Nos	1620
39.	Petroleum jelly for battery cell maintenance	KG	620
40.	HRC Fuse 6A	Nos	180
41.	HRC Fuse 16A	Nos	190
42.	Cell tester analog (galvano meter)	Nos	1405
43.	Kit kat fuse 250A	Nos	622
44.	Kit kat fuse 200A	Nos	610
45.	Kit kat fuse 100A	Nos	600
46.	Kit kat Fuse 630A	Nos	1955
47.	Battery Operated Metal Cutter Heavy Duty (PG CLAMP)	Nos	22760

**SAMPLE
CONTRACT AGREEMENT**

(To be executed on non-judicial stamp paper of appropriate value)

THIS AGREEMENT ("Agreement") is made at Noida on the ----- day of ----- between Dedicated Freight Corridor Corporation of India Limited (a Govt. of India Enterprise under Ministry of Railways) and a company incorporated under the provisions of the Companies Act, 1956 having its registered office at 5th Floor, Supreme Court Metro Station Complex, New Delhi, India – 110 001, represented through its Chief General Manager (hereinafter referred to as "DFCCIL" which expression shall, unless repugnant to the context, be deemed to include its successors and assigns and called 'the Employer') as one part and _____ a Company/Corporation/JV incorporated under the laws of ----- having its principal place of business at ----- (hereinafter called "**the Contractor**") as 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 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, fulfil 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.

For and on behalf of the Contractor

For and on behalf of the Employer

Signature of the Authorized Official

Signature of the Authorized Official

Name of the Official

Name of the Official

Stamp/Seal of the Contractor

Stamp/Seal of the Employer

SIGNED, SEALED AND DELIVERED

By the said

.....Name

.....

on behalf of the Contractor in presence of:

Witness.....

Name.....

Address.....

.....

By the said

.....Name

.....

on behalf of the Employer in presence of:

Witness.....

Name.....

Address.....

.....

Enclosures:

1. Annexure 'A' - Tender Papers No.
2. Annexure 'B' - Letter of Acceptance of Tender No----- dated along with Summary of Prices
3. Other enclosures.

Format of Bank Guarantee for Performance Security

Bank Guarantee No.

Dated

To,
 Chief General Manager,
 Dedicated Freight Corridor Corporation of India Limited/Noida Unit
 Sector-145, Noida-201306, U.P.

Reference: Contract No., awarded on

This deed of Guarantee made this day of between
 (name of Bank) having registered office at
 and branch office at (hereinafter referred to as "Bank")
 of the one part and Dedicated Freight Corridor Corporation of India Limited (hereinafter called the Employer)
 of the other Part.

Whereas Dedicated Freight Corridor Corporation of India Limited has awarded the Contract No.
 for Maintenance of 2x25 kV High Rise Over Head Equipment on New Rewari - New Dadri section
 of DFCCIL including the connections to Indian Railways & ICD under CGM Noida Unit (dri) of Western Dedicated
 Freight Corridor in the jurisdiction of CGM/Noida Unit (for 2 Years) (hereinafter called "the Contract") to M/s-

 its registered office at
 (hereinafter called "the Contractor").

Whereas the Contractor is bound by the said Contract to submit to the Employer an Irrevocable Performance
 Security Guarantee Bond for a total amount of Rs. (Rs.
 in words) only.

Now, we the undersigned (Name of Bank Officials), 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 agree 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 and 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.
 (Rs. in words) only.

We (indicate the name of Bank), further undertake to pay to the Employer any money
 so demanded notwithstanding 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 discharge 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 all the dues of the Employer under or by virtue of the said agreement have been full paid and its claims satisfied or discharged by -----
(Designation & 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.

Notwithstanding 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) unconditionally 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 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 bearance 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 expressions "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. -----
----- (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:

(Not Applicable)

(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:

..... DFCCIL,
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:

- i) 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 stated above.
- ii) 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.
- iii) 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.
- iv) The guarantee hereinbefore shall not be affected by any change in the constitution of the Bank or in the constitution of the Bidder.
- v) 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.

- vi) 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.
- vii) The Bank Guarantee is unconditional and irrevocable.
- viii) The expressions Bank and DFCCIL herein before used shall include their respective successors and assigns.
- ix) 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.
- x) 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-----.
- xi) 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

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

SAMPLE

STANDING INDEMNITY BOND FOR "ON ACCOUNT" PAYMENTS

(To be executed on non-judicial Stamp Paper of appropriate 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 Project Manager/ DFCCIL/Noida 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 Chief General Manager/DFCCIL/Noida 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 (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 ----- of -----

for and on behalf of

M/s ----- (Contractor)

Signature of Witness:

Name of Witness in Block Letter:

Address:

INDEMNITY BOND**(To be executed on non-judicial Stamp Paper of appropriate value)**

This deed of Indemnity Bond is made at NOIDA, on this ----- day of -----, we, ----- through its Authorized Signatory (hereinafter called "Contractor") AND M/s DFCCIL, Sector-145, Noida, District Gautam Budh Nagar, U.P., (Hereinafter called 'Client').

We, indemnify and save harmless the DFCCIL 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 ----- (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.

IN WITNESS WHEREOF the Contractor has executed this Bond of Indemnity at Noida, on this -----
 ____ of ____.

For and Behalf of
 Signature of Witness-1
 Name of Witness-1 (in Block Letter)
 Address-1

Authorized Signatory

for and Behalf of
 Signature of Witness-1
 Name of Witness-1 (in Block Letter)
 Address-1

Authorized Signatory

Form No 8**ECS/NEFT/RTGS**
MANDATE FORM

Date:

To,
Chief General Manager/Noida
DFCCIL, New Delhi.**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 us 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 No. 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.

DRAFT MEMORANDUM of UNDERSTANDING (MOU) for
JOINT VENTURE PARTICIPATION BETWEEN

(To be executed on non-judicial stamp paper of appropriate value)

M/s.....having its registered office at.....(hereinafter referred to as '.....') acting as the Lead Partner of the first part,

AND

M/s.....having its registered office at.....(hereinafter referred to as '.....') in the capacity of a Joint Partner of the other part.

AND

M/s.....having 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/s ----- shall 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 validity for a further period.

- (i) The bid submitted by the Joint Venture is declared unsuccessful, or
- (ii) Cancellation/ shelving of the Project by the client for any reasons prior to award of work
- (iii) 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)

IN WITNESS WHEREOF THE PARTIES, have executed this MOU the day, month and year first before written.

M/s -----

M/s -----

(Seal)

(Seal)

Witness:

1.(Name & Address)

2.(Name & Address)

Note: 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,

The Chief General Manager/Noida Unit,

Dedicated Freight Corridor Corporation of India Limited

Sector-145, Noida-201306, U.P.

Gentlemen,

Re: Maintenance of 2x25 kV High Rise Over Head Equipment on New Rewari - New Dadri section of DFCCIL including the connections to Indian Railways & ICD under CGM Noida Unit(dri) of Western Dedicated Freight Corridor in the jurisdiction of CGM/Noida Unit (for 2 Years).

Ref: Your Notice for Invitation for Tender No. CGM/DFCCIL/NOIDA UNIT/S&T MAINTENANCE/2022/05

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) *

1. '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 of ----- as 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 _____

(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:

Witness 2:

Name:

Name:

Address:

Address:

Occupation:

Occupation:

Note: 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)

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)

Whereas Dedicated Freight Corridor Corporation of India Limited has invited Bids for the work of Maintenance of 2x25 kV High Rise Over Head Equipment on New Rewari - New Dadri section of DFCCIL including the connections to Indian Railways & ICD under CGM Noida Unit(dri) of Western Dedicated Freight Corridor in the jurisdiction of CGM/Noida Unit (for 2 Years).

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 "Maintenance of 2x25 kV High Rise Over Head Equipment on New Rewari - New Dadri section of DFCCIL including the connections to Indian Railways & ICD under CGM Noida Unit."

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 executant(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
.....

(Signature)

.....
(Name in Block Letters of Executants)

Seal of Company

Witness 1	
Name:	
Address:	
Occupation:	
Witness 2	
Name:	
Address:	
Occupation:	

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 penalty 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 Employer
Name of the Official
Stamp/Seal of the Employer

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 of the cause of the physical disability should be clearly stated.

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 in various Letters of Even No. -----, dated -----; you have failed to start work/show adequate progress and/or submit detailed programme for completing the work.
2. Your attention is invited to this office/Chief General Manager'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 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 Employer
Name of the Official
Stamp/Seal of the Employer

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 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 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 stand 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 consequences which may please be noted.

Kindly acknowledge receipt.

Yours faithfully

For and on behalf of the Employer
Name of the Official
Stamp/Seal of the Employer

PROFORMA OF 48 DAYS 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 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 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 Employer
Name of the Official
Stamp/Seal of the Employer

Form No. 18

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 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 Employer
Name of the Official
Stamp/Seal of the Employer

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 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 Employer
Name of the Official
Stamp/Seal of the Employer

PRE-CONTRACT INTIGRITY PACT

(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)

General:

This pre-bid Contract Agreement (hereinafter called the Integrity Pact) is made on----- day of the Month of ----- 2022, 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 (herein after 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 [A] is willing to offer/has offered for stores or works.

WHEREAS, the [A] 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 on behalf of the President of India.

NOW, THEREFORE,

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 [B] 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. The CLIENT undertakes that no official of the CLIENT, connected directly or indirectly with the [B], 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 [A] either for themselves or for any person, organization or third party related to the [B], in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the [B].
 - 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 [A] 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 a breach.
2. In case any such preceding misconduct on the part of such officials(s) is reported by the [A] 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 [B] process. In such a case while an enquiry is being conducted by the CLIENT the proceedings under the [B] would not be stalled.
- 3. Commitments of BIDDERS:**
- The [A] 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 [B] contract or in furtherance to secure it and in particular commit itself to the following:
- 3.1 The [A] 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 [B].
- 3.2 The [A] 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 [B] or any other [B] with the Government for showing or forbearing to show favour or disfavour to any person in relation to the [B] or any other [B] with the Government.
- 3.3 * [A] shall disclose the name and address of agents and representatives and Indian [A] shall disclose their foreign principals or associates.
- 3.4 * [A] 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 [A] further confirms and declares to the CLIENT that the [A] is the original manufacturer/integrator/authorized government sponsored export entity of the defence 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 [B] to the [A] 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 [A] either while presenting the bid or during pre-contract negotiations or before signing the [B] 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 [B] and the details of services agreed upon for such payments.
- 3.7 The [A] will not collude with other parties interested in the [B] to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of

the [B].

- 3.8 The [A] will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.9 The [A] 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 [A] also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10 The [A] commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The [A] shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.12 If the [A] or any employee of the [A] or any person acting on behalf of the [A], 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 [A] 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 [A] shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the CLIENT.

4. Previous Transaction:

- 4.1 The [A] 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 exclusion from the tender process.
- 4.2 The [A] agrees that if it makes incorrect statement on this subject, [A] 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 [A] 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 BID).
- 5.2 The Earnest Money/Security Deposit shall be valid upto 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 [A] a clause would also be incorporated in the Article pertaining to Performance Guarantee in the [B] that the provisions of Sanctions for Violation shall be applicable for 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.

5.4 No interest shall be payable by the CLIENT to the [A] 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 [A] or any one employed by it or acting on its behalf (whether with or without the knowledge of the [A]) 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 [B] is signed) shall stand forfeited fully and the CLIENT shall not be required to assign any reason therefore.
- (iii) To immediately cancel the [B], 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 [A] from the country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the [A] from the CLIENT in connection with any other [B], such outstanding payment could also be utilized to recover the aforesaid sum and interest.
- (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the [A], in order to recover the payments, already made by the CLIENT, along with interest.
- (vi) To cancel all or any other Contracts with the [A]. The [A] 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 repayable from the money(s) due to the [A].
- (vii) To debar the [A] 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 [A] to any middleman or agent or broker with a view to securing [B] the contract.
- (ix) In cases where irrevocable Letters of Credit have been received in respect of any [B] signed by the CLIENT with the [A], the same shall not be opened.
- (x) Forfeiture of Performance Bond in case of a decision by the CLIENT to forfeit the same without assigning any reason for imposing sanction for violation of this pact.

6.2 The CLIENT will be entitled to take all or any of the actions mentioned at para 6.1(i) to (x) of this pact also on the Commission by the [A] 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 [A] shall be final and conclusive on the [A]. However, the [A] can approach the independent monitor(s) appointed for the purposes of this pact.

7. Fall Clause:

The [A] 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/systems or sub systems was supplied by the [A] to any other Ministry/Department of the Government of India or a PSU at a lower price, then that vary 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 [A] to the CLIENT, if the [B] 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 (Name 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 [A] 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 proposals 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 [A] and the [A] 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 upto 5 years or the complete execution of the [B] to the satisfaction of both the CLIENT and the [A] including warranty period, whichever is later. In case [A] is unsuccessful, this Integrity Pact shall expire after Six Months from the date of the signing of the [B].

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.

12.3 The parties hereby sign this Integrity Pact at ----- on-----.

Client:

Bidder:

Name of the Officer:

Chief Executive Officer:

Designation:

Deptt./Ministry/PSU:

Witness:

1.-

2.-

Witness:

1.

2.

Note:

- A. To be replaced by BIDDER/Seller/Consultant/Consultancy Firm/Service Provider as the case was may be.
- B. To be replaced by Contract/Supply Contract/Consultancy Contract/Works Contract as the case was may be.

FINAL SUPPLEMENTARY AGREEMENT

1. Articles of agreement made this day_____in the year_____between DFCCIL, 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 DFCCIL

Witness:

.....

Address:

Format of Bank Guarantee for Security Deposit

Bank Guarantee No. -----

Date: -----

To,

Chief General Manager,

Dedicated Freight Corridor Corporation of India Limited/Noida Unit

Sector-145, Noida-201306, U.P.

Reference: Contract No. -----, awarded on -----

This deed of Guarantee made this day of ----- between ----- (name of Bank) having Registered Office at ----- and Branch Office at ----- (hereinafter referred to as "Bank") of the one part and Dedicated Freight Corridor Corporation of India Limited (hereinafter called the Employer) of the other Part.

Whereas Dedicated Freight Corridor Corporation of India Limited has awarded the Contract No. ----- for Maintenance of 2x25 kV High Rise Over Head Equipment on New Rewari - New Dadri section of DFCCIL including the connections to Indian Railways & ICD under CGM Noida Unitdri) of Western Dedicated FreightCorridor in the jurisdiction of CGM/Noida Unit (for 2 Years) (hereinafter called "the Contract") to M/s - ----- its Registered Office at ----- (hereinafter called "the Contractor").

Whereas the Contractor is bound by the said Contract to submit to the Employer an Irrevocable Performance Security Guarantee Bond for a total amount of Rs. ----- (Rs. ----- in Words) only.

Now, we the undersigned (Name of Bank officials), 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 agree 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 and 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. ----- (Rs. ----- in Words) only.

We ----- (indicate the name of Bank), further undertake to pay to the Employer any money so demanded notwithstanding 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 discharge 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 all the dues of the Employer under or by virtue of the said agreement have been full paid and its claims satisfied or discharged by ----- (Designation

& 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.

Notwithstanding 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) unconditionally 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 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 bearance 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 expressions "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. ----- (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.

Signature of Bank Authorize Official with seal

Name-----

Designation/Address:

Witness:

- 1. Signature, name and address of witness
- 2. Signature, name and address of witness

Format for Power of Attorney for Authorized Representative

Know all men by these presents, We, [name of organization and address of the registered office] do hereby constitute, nominate, appoint and authorize Mr/Ms [name], son /daughter/ wife of [name], and presently residing at [address], who is presently employed with/retained by us and holding the position of [designation] as our true and lawful attorney (herein after referred to as the "Authorized Representative"), with power to sub-delegate to any person, to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our Bid for [name of assignment], to be developed by Dedicated Freight Corridor Corporation of India Ltd. (the "Authority") including but not limited to signing and submission of all applications/bids, proposals and other documents and writings, participating in pre-bid and other conferences and providing information/responses to the Authority, representing us in all matters before the Authority, signing and execution of all contracts and undertakings consequent to acceptance of our bid and generally dealing with the Authority in all matters in connection with or relating to or arising out of our Bid for the said Project and/or upon award thereof to us until the entering into of the Contract with the Authority.

AND, we do hereby agree to ratify and confirm all acts, deeds and things lawfully done or caused to be done by our said Authorized Representative pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Authorized Representative in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHEREOF WE, [name of organization], THE ABOVE-NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS [Date in Words] DAY OF [Month] [Year in 'YYYY' Format].

For [Name and Registered Address of Organization] [Signature]

[Name]

[Designation]

Witness:

1. Signature, name and address of witness
2. Signature, name and address of witness

Accepted

[Signature/Name/Designation/Address]

Note:

1. 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 seal affixed in accordance with the required procedure.
2. Wherever required, the Bidder should submit for verification the extract of the charter documents and other documents such as a resolution/Power of Attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.

NO DEVIATION CERTIFICATE

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

(Write Name & Address of Officer of DFCCIL inviting the Tender)

Dear Sir,

Sub: No Deviation Certificate.

Ref: 1) NIT/Tender Specification No. -----
2) All other pertinent issues till date

We hereby confirm that we have not changed/modified/materially altered any of the tender documents as downloaded from the website/issued by DFCCIL and in case of such observance at any stage, it shall be treated as null and void.

We also hereby confirm that we have neither set any Terms and Conditions and nor have we taken any deviation from the Tender Conditions together with other references applicable for the above referred NIT/Tender Specification.

We further confirm our unqualified acceptance to all Terms and Conditions, unqualified compliance to Tender Conditions, Integrity Pact, etc.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, Date & Seal of Authorized Representative of the Bidder)

**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

* 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/DFCCIL w.e.f. _____ and empanelled as Railway 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:

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).

1. Your attention is invited to this Office/Chief General Manager's Office Letter No. -----, -----, dated ----- in reference to your representation, dated -----.
2. 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

NOTICE FOR PART OF CONTRACT WORK OFFLOADED-----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).

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

2. Please refer your request Letter No. ----- dated -----, wherein it was requested under Clause 40A 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 along with approximate cost thereof to be mentioned)

3. 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.
4. The Bill(s) of Quantities for Part(s) of work offloaded is enclosed herewith.
5. 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.
6. The Contract value gets reduced to Rs.-----.
7. 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

******END of Tender Document******