



## **Dedicated Freight Corridor Corporation of India Limited**

(A Government of India Enterprise)  
Ministry of Railways

### **E- TENDER DOCUMENT**

FOR

**Maintenance of 2x25 KV High Rise Overhead equipment along with Power Supply Installation maintenance on Madar-Iqbalgadh section of DFCCIL including IR connecting lines for a period of 12 Months under CGM Ajmer.**

### **Single Packet OPEN E-TENDER**

(NOT TRANSFERABLE)

#### Office address:

Office of CGM DFCCIL  
A-1, Circular Road,  
Near SP GRP office  
Kundan Nagar Circle  
Ajmer-305001 (Rajasthan)

**CHECK LIST**

<b>CHECK LIST OF ITEMS TO BE COMPLIED BY TENDERER(S) BEFORE SUBMITTING THEIR TENDERS.</b>		
<b>Sr. No</b>	<b>Description</b>	<b>Done or Not</b>
1.	Rates have been quoted for All schedules on Basic Cost in terms of percentage in Rate sheet.	
2.	Declaration regarding no relative being employed on DFCCIL has been submitted.	
3.	Tenderer's General information filled up with attached documents/proof page marked/indicated.	
4.	All the Annexures properly filled up and relevant documents attached and indicated in Annexures, where asked.	
5.	Company seal should be put.	
6.	Earnest Money & Tender Fee Deposit as per NIT	
7.	The tender shall be accompanied with the following, to be uploaded online:	
	1 Copies of Earnest Money Deposit and Tender Fee as per NIT	
	2 Attested copies & Certificate of documents towards fulfilling of Eligibility Criteria by the Tenderer(s) as per Tender Notice.	
	3 Partnership deed/ resolution as applicable.	
	4 Power of Attorney as applicable.	
	5 Any other relevant document.	
8.	Corrigendum if any issued by DFCCIL, for this tender.	
9.	RATES TO BE QUOTED ONLINE ONLY.	

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## **Instructions to bidders for online bidding**

### Instructions to bidders for online bidding

- 1.1 E-Tender has been invited under 'single packet' system.
- 1.2 The tender(s) can download the Bid document online from the website address <http://www.ireps.gov.in/DFCCIL> as per the date & timing mentioned in SECTION –I of the bid document.
- 1.3 Tender document is also available on the official web site i.e., [www.dfccil.gov.in](http://www.dfccil.gov.in). & CPP portal.
- 1.4 The tender fee and EMD as per tender document are to be deposited through net banking or payment gateway, as per address given in Bid document before the schedule date and time of submission of the tender otherwise the Bid will not be considered and shall be summarily rejected.

Alternatively, tender fee and EMD can also be deposited by RTGS before the last date and time of submission of online bid. In such case, no documents are required to be deposited physically in the tender box. Scanned copy of RTGS receipt, duly indicating UTR number should be uploaded online along with the tender. Details of DFCCIL/Ajmer bank account for making payment by RTGS are as under:

Name	CPM DFCCIL Ajmer
Bank account number	309801010900234
IFSC code	UBIN0546836
Bank Name	Union Bank of India
Bank Branch	UBI Moti Bagh, New Delhi-110066

- 1.5 The entire bid document shall be scanned & uploaded online on the website. The hard copy of those pages should be scanned after signed and stamp. Tender document shall be accompanied with the scanned copies of Bid deposit in proper form, document about the status of the firm such as partnership deed etc. power of Attorney; documents in support of the of Tender(s), all documents mentioned in the checklist.
- 1.6 All tender shall be uploaded in accordance with the instruction contained in these documents (hereinafter called as tender document). Non-Compliance with any of the instruction set forth herein above is liable to result in the tender being rejected.
- 1.7 A firm shall submit only one offer against the E-Tender. In case, a firm submits more than one Tender, such a firm will be disqualified.
- 1.8 In preparing the Proposal, Tenderer(s) are expected to examine all terms and conditions included in the document. Failure to provide all requested information will be at own risk of the Tenderer(s) and will result in rejection of the proposal submitted by the Tenderer(s).
- 1.9 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.
- 1.10 The proposal shall contain no inter-lineation or overwriting, except as necessary to correct errors made by the firm itself. Any such corrections must be initialed by the person or persons who sign(s) the Proposals.
- 1.11 While quoting the online rates in bid sheet provided on [www.ireps.gov.in /DFCCIL](http://www.ireps.gov.in/DFCCIL) Tender(s) are expected to take into account the requirement and conditions of the tender documents.
- 1.12 A master copy of the document downloaded from the website mentioned above shall be kept in

the office of the tender inviting authority. In case of any discrepancy between the tender document downloaded from the website and the master copy, the latter shall prevail and shall be binding on the Tenderer(s). The offer received shall be deemed to have been submitted on the document as uploaded and appearing in the website mentioned above whose master copy is kept in the office of the tender inviting authority and the agreement shall also be prepared on the basis of master document kept in the office of tender inviting authority.

- 1.13 The Tenderer(s) downloading the documents from internet must keep themselves updated through the website from which the tender document is downloaded regarding corrigenda, if any, to the notice inviting tender or the tender document, which shall be uploaded in the same website only. The offers received without such corrigenda published shall be liable to be rejected.
- 1.14 Any willful changes/deletion/addition in printing carried out in the tender documents shall be viewed very seriously, whether detected at the time of opening/ award of tender or after award of work and the same may result in penal action including banning of further business with the defaulting Tenderer(s). In addition, the Tenderer(s) are liable to be prosecuted for the same as per law.
- 1.15 The Tenderer(s) whether a sole proprietor, a limited company or a partnership firm, if they want to act through agent or individual partner/partners should submit along with the tender or at a later stage, a 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/partners of the firm or any other person specifically authorizing him/them to submit the tender, sign the agreements, receive money, witness measurements, sign measurement books, compromise, settle, relinquish any claim or claims preferred by the firm and sign "No Claim Certificate" and refer all or any disputes to arbitration.
- 1.16 **Priorities of documents:**  
The several documents forming the contract are to be taken as mutually explanatory of one another. If any inconsistency or discrepancy is found in the documents, DFCCIL shall issue any necessary clarification or instruction. For the purpose of interpretation, the priority of documents shall be accordance with the following sequence:
  - a) The letter of acceptance
  - b) The contract agreement (if completed)
  - c) The notice inviting tender / instructions of Tenderers
  - d) Special condition of Contract
  - e) General conditions of Contract
  - f) Bill of Quantities

## **2.0 SUBMISSION OF TENDER**

- 2.1 All Tenders shall be submitted online.
- 2.3 Venue of submission of tender: - No tender will be accepted/received offline or in any office.
- 2.3 The mandatory seal & signed of all pages should be submitted online not later than date and timings mentioned as in NIT in SECTION-1 of the tender document.
- 2.4 Any tender and tender fee & EMD received late are liable to be rejected summarily.

## **3.0 TENDER OPENING**

- 3.1 Date and Time of online opening of the tender: - As indicated in the NIT in Section-1 of tender document.
- 3.2 Conditional tenders are liable to be rejected straightway. DFCCIL reserves the right to reject such tenders summarily without assigning any reasons whatsoever.
- 3.3 If the date of opening is declared as holiday then the tender shall be accepted upto 15:00 hrs of the next working day and the same will be opened at 15.30 hrs on the same day i.e, next working day.
- 3.4 On the date specified in the tender notice, the rates of all tenders(s) will be available online.

#### 4.0 **GENERAL INFORMATION**

- 4.1 Tender document is non-transferable. Tenders received from Tenderer(s) in whose name Tender Document has been issued shall only be considered.
- 4.2 No extension in the Tender Due Date shall be considered on account of internet speed or any technical fault.
- 4.3 Issuance of Tender documents will not automatically mean that such parties are considered qualified.
- 4.4 The agency will be awarded initially work for period specified vide clause 2.2 of tender document.
- 4.5 DFCCIL reserves the rights to modify, expand, restrict, scrap, re-float the tender without assigning any reasons.

#### 5.0 **VALIDITY OF PROPOSAL**

- 5.1 The Tenderer(s) shall keep their offer open for a minimum period of 90 days from the date of opening of the Tender, being extended further if required by mutual agreement from time to time. Any contravention of the above condition shall make the Tenderer(s) liable for forfeiture of his Earnest Money deposit. The Tenderer(s) cannot withdraw their offer within the period of validity / extended validity.

#### 5.0 **TENDER FEE**

- 6.1 The tender fee as per tender document are to be paid by the tenderer only through net banking or payment gateway only before the schedule date and time of submission of the tender otherwise the Bid will not be considered and shall be summarily rejected. Scanned copy of the same should be uploaded. Tender Fee is non-refundable.
- 6.2 Offers without valid tender fee will be summarily rejected.
- 6.3 Tender processing fee as per applicable rates, payable through the e-payment Gateways are non-refundable.
- 6.4 All Micro and Small Enterprises (MSEs) who are having Udyog Adhar Memorandum shall be given all benefits towards Tender Fee and Earnest Money (EMD) in terms of Railway Board Letter No.2010/RS(G)/363/1 dated 31.03.2016.

#### 7 **EARNEST MONEY**

Nil

**8.0 ELIGIBILITY CRITERIA**

8.2 The tenderer must submit the documents in favour of fulfilling the eligibility criteria. Tenders submitted without these documents shall be summarily rejected.

8.3 The eligibility criteria have been defined in bid document should be submitted online.

**9 FIRM DETAILS, SIGNATURE OF TENDERS & DOCUMENTARY PROOF**

9.1 The Tender must contain the full name, designation and complete address of place of business of the person(s) signing the Tender. Tenderer(s) shall furnish "BRIEF DETAILS OF THE TENDERER(S)" as per (Annexure-IV).

9.2 The Tender shall be signed by individual or individuals legally authorized to enter into commitments on behalf of the Tenderer(s). Any individual or individuals signing the Tender Documents or other documents connected therewith should specify whether he is signing.

- a) As a Sole Proprietor of the firm or Attorney of the Sole Proprietor; or
- b) As a Partner or Partners of the firm; or
- c) As a Director, Manager or Secretary in a Limited Company etc.

9.3 The Tenderer(s)/s whose tender is accepted will be required to appear at the office of the chief General Manager, DFCCIL A-1, Circular Road, Near SP GRP office, Kundan Nagar circle, Ajmer- 305001, in person or in case of firm or corporation, a duly authorized representative shall appear to execute the contract documents within 7 days after notice that the contract has been awarded to him and contract documents are ready for signature. Failure to do so shall constitute a breach of the agreement effected by the acceptance of the tender in which case the full value of the Earnest Money accompanying the tender shall stand forfeited.

**10.0 PRICE BASIS, CURRENCIES & LANGUAGE OF TENDER**

10.1 Tenderer(s)'s have to quote the Commission/Service/Administrative charges in terms of a flat single percentage (%) in the schedule-I of the document. This percentage shall be applicable on each item of the Schedule-I uniformly.

10.2 Rates are inclusive of labour, material, all statutory taxes and obligations of Central Govt. and State Govt. / local bodies as applicable at the time of the opening of the tender, unless otherwise specified separately in this tender document. The Tender prices shall be in Indian rupees only.

10.3 Taxes, if any, levied after opening of the tender will be borne by DFCCIL & reimbursed after production of documents in proof of having submitted the same. General Conditions of Contract & Special Conditions of Contract, Schedule of approximate quantities & Rate sheet may be referred for further details.

10.4 Rates are to be quoted both in figures and words. In case of any discrepancy in rates between figures and words, the rates quoted in words will prevail over rates quoted in figure.

10.5 All information in the Tender shall be in English and Hindi only. Failure to comply with these requirements will render the Tender liable for rejection.

**11.0 PROPOSAL EVALUATION**



- 11.1 A single stage procedure shall be adopted in evaluating the proposals.
- 11.2 The Evaluation Committee appointed by DFCCIL shall carry out its evaluation on the basis of their responsiveness to the Terms of Reference, applying the evaluation criteria.
- 11.3 The proposal of the Tenderer(s) will be assessed only based on the information/documents submitted along with the tender. However, DFCCIL reserves the right to seek clarification from the Tenderer(s), if the evaluation committee considers it necessary for proper assessment of the proposal. The clarification will be sought through fax / e-mail and the Tenderer(s) will be required to submit clarification in the stipulated time period. The clarification received within stipulated time period will be taken into consideration for evaluation of the technical proposal
- 11.4 The Proposals shall be opened publicly in the presence of the Tenderer(s)' representatives who choose to attend. The name of the Tenderer(s), the proposed prices shall be read aloud and recorded after opening the proposal. The Client shall prepare minutes of the public opening.
- 11.5 The successful Tenderer(s) would be selected on the basis of least commission quoted by the Tenderer(s) on the pay payable to the outsourced person as indicated in Annexure-I. In case of a tie, tenderer having higher valued credentials under clause 4.14(2), of Section-4 will be considered.

## **12 ENGAGEMENT OF PERSONNEL**

- 12.1 Persons provided should possess experience of job and have good behavior and unblemished record and character.

## **13 AWARD OF CONTRACT**

- 13.1 The DFCCIL will issue a letter of Acceptance to the successful Tenderer.
- 13.2 Until a formal agreement is prepared and executed acceptance of this tender shall constitute a binding contract between DFCCIL and Tenderer subject to the modifications, as may be mutually agreed to and indicated in the letter of acceptance.
- 13.3 The successful Tenderer will be required to execute the Contract Agreement within 7 days of receipt of notice by the DFCCIL Administration that such document is ready, as per conditions mentioned in Tender Document, General Conditions of Contract (section 4) and Special Conditions of Contract (section 5).
- 13.4 The successful firm / Tenderer with whom the contract is signed shall commence the assignment within 15 days from the date of issue of acceptance letter.
- 13.5 All expenses in drawing up the agreement and the cost of stamp duty if any shall be borne by the contractor.

## **14 CONFIDENTIALITY**

- 14.1 Information relating to evaluation of proposals and recommendations concerning awards shall not be disclosed to the Tenderer(s) who submitted the proposals or to other persons not officially concerned with the process.

## **15 CHECK LIST**

- 15.1 The Tenderer(s) is requested to submit the tender documents and attachments to tender documents as per the details specified in the Tender document. Any deviation/omission from above will be as per Tenderer(s)'s own risk.

The Tenderer(s) are requested to duly fill in the checklist. The checklist is only a reminder of certain important items, to facilitate the Tenderer(s). This, however, does not relieve the Tenderer(s) of its responsibility to make sure that his proposal is otherwise complete in all respects.

## **16.0 Additional instructions**

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

### **Instructions:-**

#### **16.1 Online Bidding Methodology:**

Online Bid System

#### **16.2 Broad outline of activities from Bidders perspective:-**

- a) Procure a Digital Signing Certificate (DSC)
- b) Register on Electronic Tendering System (ETS)
- c) Create Users and assign roles on ETS
- d) View Notice Inviting Tender (NIT) on (ETS)
- e) Download Official copy of Tender Documents from ETS.
- f) Clarification to Tender Documents on ETS - Query to DFCCIL (Optional) - view response to queries posted by DFCCIL through addenda.
- g) Bid Submission on ETS :Prepare & arrange all documents/papers for submission of bid online and tender fees & EMD deposit on offline/RTGS.
- h) Attend Public Online Tender Opening Event (TOE) on ETS.
- i) Post TOE clarification on ETS (Optional). Respond to DFCCIL's post – TOE queries.

For participating in this tender online, the following instructions are to be read carefully. These instructions are supplemented with more detailed guidelines on the relevant screens of the ETS.

Note 1:- It is advised that all the documents to be submitted are kept scanned and converted to PDF format in a separate folder on your computer before starting on line submission. The price bid (Excel Format) may be downloaded and rates may be filled appropriately. This file may also be saved in a secret folder on your computer.

**Note 2:-While uploading the documents it should be ensured that the file name should be the name of the document itself.**

**17 Digital Certificate:**

For integrity of data and its authenticity/ non repudiation of electronic records and to be compliant with IT Act 2000, it is necessary for each user to have a Digital Certificate (DC) also referred to as Digital Signature Certificate (DSC) of class III issued by a Certifying Authority (CA) licensed by Controller of Certifying Authority (CCA) (refer <http://www.cca.gov.in>).

**18 Registration:**

The Tender documents can be downloaded from the website: [ireps.gov.in/DFCCIL](http://ireps.gov.in/DFCCIL) and to be submitted in the e-format. Cost of the Tender Documents and Bid Security (EMD) have to be submitted to DFCCIL's account. The EMD cost as described in the NIT header will be submitted by the tenderer only through net banking or payment gateway only before the schedule date & time of submission of the tender otherwise the Bid will not be considered. Amendments, if any, to the tender document will be notified in the above website as and when such amendments are notified, It is the responsibility of the bidders to keep themselves abreast of such amendments before submitting the tender documents.

**Note:**

- (i) Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' shall be exempted from payment of earnest money deposit detailed above.
- (ii) 100% Govt. owned PSUs shall be exempt from payment of earnest money deposit.

Intending bidders are requested to register themselves through [ireps.gov.in/DFCCIL](http://ireps.gov.in/DFCCIL) for obtaining user-ID, Digital Signature etc. by paying vendor registration fee and processing fee for participating in the above mentioned tender.

DFCCIL, has decided to use process of e-tendering for inviting this tender and thus the physical copy of the tender would not be sold.

**19** DFCCIL, has decided to use process of E- Tendering for inviting this tender and thus the physical copy of the tender documents would not be sold/accepted.

**20** To participate in E-tender, it is mandatory for Tenderer (S) to get themselves registered with the **ireps** and to have user ID & Password. Payment of registration fee can be done through [ireps.gov.in/DFCCIL](http://ireps.gov.in/DFCCIL)

DFCCIL Contact- 1	Chitranjan kumar
Telephone/Mobile No.	8824912194
E-mail ID	cranjan@dfcc.co.in

DFCCIL Contact- 2	M. A. Siddiqui
Telephone/Mobile No.	8003899335
E-mail ID	masiddiqui@dfcc.co.in

DFCCIL Contact- 3	Rajesh Gupta
Telephone/Mobile No.	8003899311
E-mail ID	rajeshgupta@dfcc.co.in

## **21. DOCUMENTS ESTABLISHING BIDDER'S ELIGIBILITY AND QUALIFICATION AS PER BID:-**

The bidder shall furnish, as part of his bid document establishing the bidder's eligibility. All these documents should be numbered and should be signed by bidder in each page.

- 21.1 The tenderer shall deposit EMD & cost of BID document through net banking or payment gateway before the scheduled date and time of submission of the tender, otherwise the Bid will not be considered. Tender fee and EMD can also be deposited through e-payment. The tender processing fees, as per applicable rate payable through the e- payment gateways to ITI limited is Non-refundable.
- 21.2 Tender documents (s) in original, duly filled in should be signed by bidder or his Authorize representative along with seal on each page. All corrections and overwriting must be initialed with date by the bidder or his authorized representative.
- 21.3 Copy of PAN card.
- 21.4 The authenticated copy of registered partnership deed and registration of the firm from registrar of firm in case of partnership firm.
- 21.5 In case of proprietorship firm bidder will submit an affidavit, attested by Notary Public that "I am a sole proprietor of the firm \_\_\_\_\_" in case of \_\_\_\_\_ proprietorship firm on Non judicial stamp paper of Rs. 500/-
- 21.6 Bidder's profile duly filled in, as per tender document.
- 21.7 Power of Attorney.
- 21.8 Article of association and memorandum in case of private/public limited company.
- 21.9 Copy of E.P.F. registration.
- 21.10 Copy of ESI Certificate.
- 21.11 Copy of GST registration no.
- 21.12 Certificate for non near relative in DFCCIL.
- 21.13 The tender fee and EMD as per tender document is to be deposited through net banking or payment gateway, as per address given in Bid document before the schedule date and time of submission of the tender.

Alternative, tender fee and EMD can also be deposited by RTGS before the last date and time of submission of online bid. In such case, no documents are required to be deposited physically in the tender box. Scanned copy of RTGS receipt, duly indicating UTR number should be uploaded online along with the tender. The entire bid document shall be scanned & uploaded online on the website. The hard copy of those pages should be scanned after signed and stamp.

- 21.14 Note: - Any discrepancy found in the downloaded tender document submitted by the bidder compared to uploaded tender document, the tender document uploaded by the DFCCIL will be treated as valid and any changes (found in the tender document submitted by the bidder) at any stage, will be treated as fraud done to the DFCCIL, and will be liable to cancellation of agreement done (if any) & appropriate action will be taken against the bidder.

**22.0 The following 'FOUR KEY INSTRUCTIONS for BIDDERS' must be assiduously adhered to:**

1. Obtain individual Digital Signing Certificate (DSC or DC) well in advance of your first tender submission deadline on ETS.
2. Register your organization on ETS well in advance of your first tender submission deadline on ETS.
3. Get your organization's concerned executives trained on ETS using online training module well in advance of your tender submission deadline on ETS.
4. Submit your bids well in advance of tender submission dead line on ETS (DFCCIL will not be responsible for any problem arising out of internet connectivity issues).

**Method for submission of bid documents**

In this TENDER the bidder has to participate in e-bidding online.

**Note: The Bidder has to upload the Scanned copy of all above said documents during Online Bid submission also. In case tender fee and EMD are paid through e-payment, then scanned copy of receipt duly indicating UTR number is to be uploaded.**

**23.0 Price schedule**

Utmost care may kindly be taken to upload price schedule. Any change in the format of price Schedule file shall render it unfit for bidding. Following steps may be followed

- i) Down load price schedule part
- ii) Fill rates in down loaded price schedule
- iii) Save filled copy of downloaded price schedule file in your computer and remember its name & location for uploading correct file (duly filled in) when required.
- iv) Tenderer(s) should download 'financial offer xls' file, quote their rates in the applicable field and save it. Tenderer(s) can upload the filled up 'financial offer xls' file. Name of the downloaded 'financial offer xls' file must not be changed.
- v) **Contractor should bear the fact in mind while quoting the rates that GST will be**

**paid by Contractor as per prevailing rate** as applicable. Documentary evidence of deposition of GST will be produced by contractor.

#### **24.0 Modification / Withdrawal of bids:**

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

#### **Other instructions**

For further instructions, the vendor should visit the portal ([ireps.gov.in/DFCCIL](http://ireps.gov.in/DFCCIL)), and login to it and upload documents of bid.

**Important Note:** It is strongly recommended that all authorized users of supplier organizations should thoroughly peruse the information provided under the relevant links, and take appropriate action.

**FORM OF BID**

Place: .....

Date: .....

**Chief General Manager,  
Dedicated Freight Corridor Corporation of India Limited,  
A-1, Circular Road, Near SP GRP,  
Kundan nagar circle, Ajmer-305001.**

Sir,

I / We..... have read the various conditions of tender attached hereto and hereby agree to abide by the said conditions. I / We also agree to keep this tender open for your acceptance for a period of **120 days** from the date fixed as last date for receipt of completed tender in your office. In the event of my/our default, I/We will be liable for forfeiture of my/our earnest money.

1. I / We offer to do **“Maintenance of 2x25 KV High Rise Overhead equipment along with Power Supply Installation maintenance on Madar-Iqbalgadh section of DFCCIL including IR connecting lines for a period of 12 Months under CGM Ajmer.”** and the percentage/rate quoted by me/us in the BOQ bind myself/ourselves to complete the work in **12 (Twelve) months**. I / We also hereby agree to abide by all the Conditions mentioned in the tender and to carry out the services according to specifications laid down by DFCCIL for the present contract.
2. The full value of the earnest money deposited shall stand forfeited without prejudice to any other rights or remedies if:
  - a) I / We do not execute the contract document within Seven days after receipt of notice issued by DFCCIL that such documents are ready.

OR

  - b) I / We do not commence the work within 15 days after receipt of LOA issued.
3. 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.
4. Payment of stamp duty on the agreement to be executed in pursuance of this tender will be borne by Tenderer.

Signature of witnesses:

Signature of Tenderer (s) &amp; Date

Tenderer(s) address

- 1.
- 2.

**(NOTICE INVITING E- TENDER)**



**Dedicated Freight Corridor Corporation of India Limited**  
**(A Government of India Undertaking)**  
**MINISTRY OF RAILWAYS**

Tender No. AII/EL/Tender/2020-2

Date: 15 .03.2021

M/s.....

.....

**NOTICE INVITING E- TENDER**

1. The Chief General Manager, DFCCIL, A-1, Circular Road, near SP GRP, Kudan Nagar circle, Ajmer-305001, invites **E - Tenders in single packet system** on prescribed forms from firms/companies meeting qualifying requirements and having requisite experience and financial capacity for the following works:-

<b>Tender No.</b>	<b>AII/EL/Tender/2020-2</b>
<b>Name of Work</b>	<b>Maintenance of 2x25 KV High Rise Overhead equipment along with Power Supply Installation maintenance on Madar-Iqbalgadh section of DFCCIL including IR connecting lines for a period of 12 Months under CGM Ajmer.</b>
<b>Estimated Cost</b>	Rs.3,22,50,923/- (Rs. Three Crore Twenty Two Lakh Fifty Thousand Nine Hundred twenty Three only) + GST
<b>Period of Contract</b>	Total 12 (Twelve) Months
<b>Earnest Money Deposit</b>	Nil
<b>Cost of Document</b>	Nil
(e) Last Date and Time of Downloading of Tender from website <a href="http://ireps.gov.in/DFCCIL">ireps.gov.in/DFCCIL</a> and <a href="http://www.dfccil.gov.in">www.dfccil.gov.in</a>	20.04.2021 up to 15:00 hrs.
(f) Last date and Time of online submission of Tender on website <a href="http://ireps.gov.in/DFCCIL">ireps.gov.in/DFCCIL</a>	20.04.2021 up to 15:00 hrs.
(g) Date and Time of Opening of Tender (Technical bids -Packet A)	20.04.2021 at 15:30 hrs

**NOTE: Tenderer should bear the fact in mind while quoting the rates that GST will be paid by Contractor as per prevailing rate as applicable. Documentary evidence of deposition of GST will be produced by contractor for on account bill.**

## 2 **ELIGIBILITY CRITERIA**

Eligibility of the applicants shall be assessed based on the **“Eligibility Criteria”, “Essential Qualifying Criteria” and “Other Qualifying Criteria” as given in Annexure-I.**

The Tender document can be downloaded from ireps.gov.in, from DFCCIL’s website www.dfccil.com.etc. Tenderers are advised not to make any corrections, additions or alterations in the downloaded tender documents. In case, any corrections, additions or alterations in the downloaded tender documents are made, such tender shall summarily rejected

3. The cost of tender documents & EMD shall be deposited in DFCCIL account mentioned in Appendix to tender.
4. DFCCIL may issue addendum(s)/corrigendum(s) to the tender documents. In such case, the addendum(s)/corrigendum(s) shall be issued and placed on DFCCIL’s website **at least three days in advance** of date fixed for opening of tenders. The tenderers who have downloaded the tender documents from website must visit the website and ensure that such addendum(s)/corrigendum(s) (if any) is also downloaded by them. Such addendum(s)/corrigendum(s) (if any) shall also be submitted, duly stamped and signed, along with the submission of the tenders.
5. The tender documents shall be submitted in online mode through website www.ireps.gov.in in single bids only. Single offer viz. containing Technical offer and financial offer along with necessary documents to be uploaded. Detailed credentials as per the requirement of eligibility criteria and all tender papers except Bill of Quantities are to be uploaded in **“Technical offer”**. Bill of Quantities with rates duly filled in are to be uploaded in **“Financial offer”**. **Bids are required to be submitted only by online mode. The prices must be filled after downloading the financial bid document in the prescribed format issued through online e-tendering website. The financial bid should be saved and dully filled up and uploaded on the e- tendering web site using Digital Signature for signing the documents.**
6. To participate in the E-Bid submission, it is mandatory for the bidders to have user ID & password which has to be obtained by submitting an annual registration charges) to M/s ITI through e-payment..
7. Tenders shall be opened at **the address given below** at 15:30 hours on the same day in the presence of the tenderer(s) or their authorized representatives intending to attend the opening.

**Address of Office of the Chief General Manager / Ajmer (for submission & opening of tenders):**

**Chief General Manager /Ajmer, DFCCIL, A-1, Circular road, near SP GRP, Kundan nagar circle, Ajmer-305001.**

All the Bids received shall be opened on the date and time mentioned above in the tender notice. Bid of the bidders shall be opened on a subsequent date through process of e-

tendering, which will be notified to such bidders on line. The sequence of opening shall be:

- i) Earnest Money Deposit (EMD)
  - ii) Technical Bid.
  - iii) Financial Bid.
8. Tender shall be submitted as per “Instructions to Tenderer(s)” forming a part of the tender document.
  9. Any tender received without Earnest Money in the form as specified in tender documents shall not be considered and shall be summarily rejected.
  10. DFCCIL reserves the right to cancel the tenders before submission/opening of tenders, postpone the tender submission/opening date and to accept / reject any or all tenders without assigning any reasons thereof. DFCCIL’s assessment of suitability as per eligibility criteria shall be final and binding.
  11. 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. EMD of such tenderer shall be forfeited. The decision of DFCCIL in this regard shall be final and binding.
  12. DFCCIL reserves the right to pre-qualify the bidder(s) provisionally based on the documents submitted by them and open financial bid(s), subject to their final verification. In the event of any document being found false, the provisional qualification shall stand withdrawn, and the next lower bidder shall automatically come to the position of such disqualified bidder. Action against such disqualified tenderers shall be taken as per above Clause No. 10.0 of Notice Inviting Tender.
  13. The validity of the offer shall be 90 days.
  14. The transfer of tender documents purchased by one intending tenderer to another tenderer is not admissible. Tenderer can submit tenders only on the documents purchased/downloaded from website mentioned above.

We look forward for your active participation.

For & on behalf of **DFCCIL**  
**Chief General Manager, Ajmer**

**ANNEXURE – I****1.0 ELIGIBILITY CRITERIA**

The tenderer shall satisfy the following eligibility criteria to qualify for this tender:

**I. Essential Qualifying Criteria: -****A. Firms/companies**

- (i) The tenderer should have a registered office anywhere in India.

The documentary proof regarding A. above should be submitted as part of the tender document.

**Note:** For the purpose of documentary proof of “registered office” as mentioned in (i) above any address of office as mentioned in any of the following documents submitted along with the original offer by tenderer(s) may be considered as registered office of the tenderer(s).

1. Address mentioned in the article of association of company duly registered under Companies Act, 1956.
2. Address mentioned in Partnership Deed
3. Address mentioned in Trade License obtained by the individual from civic body.
4. Address mentioned in any tax departments.
5. Address mentioned in P.F. Registration documents.

**B. Technical capability:**

1. In support of their credentials, the Tenderer(s) should have to submit documents as stipulated in tender document along with their tenders.
2. The tenderer(s) should satisfy the following minimum eligibility criteria as under

S.N.	Technical capability	Requirement
1	The Tenderer(s) should have physically completed at the time of opening of tender in the last Three financial years (i.e current year and three previous financial years).	At least one <b>similar single</b> work in Government Organization/ Public sector undertaking (PSU)/ Autonomous body/Public Limited Company/ Private Limited Company for a minimum value of 35% of advertised tender value of work. The work should be physically completed on or before the date of opening of tender.

The Tenderer(s) will produce/attach the certificate of Work completion with the Tender Document as per above and such certificate should clearly supported by following details:-

- a) Name of Agency issuing a certificate.
- b) Date of issue of certificate.
- c) The name of Work.
- d) The Acceptance letter no.
- e) The date of issue of Acceptance letter.
- f) Agreement no.
- g) Date of execution of Agreement.
- h) Date of original Completion of Work as per Acceptance Letter.
- i) Date of Actual completion of Work.
- j) The Amount of Work done as per Agreement (in Rupees).
- k) The Final Amount of Work at the time of Completion of Work (in Rupees).
- l) Whether the Work is completed satisfactory or not satisfactory.

**Notes:**

**Following will be considered as similar work:**

Similar nature of work of this tender is:- "**Maintenance/ Erection of 2X25 kV or 25 kV OHE in Railways System/ Metro Rails System or Maintenance/erection of at least one TSS/substation of not less than 132/33 kV**".

Erection of 2X25kV OHE or 25 kV OHE means “satisfactory execution of work of railway electrification at 25kV /2X25 KV involving preparation of design and drawing for OHE, casting of foundation, erection of masts, bracket fabrication& erection, wiring and other related works with experience of working in power and/or traffic blocks anywhere in the railways”.

Erection of TSS/Substation means “Any work of augmentation of capacity of substation, supply and erection of capacitor banks, overhauling and /or repairing and/or rehabilitation and/or commissioning of PSI equipments, Traction transformers, Auxiliary transformers, circuit Breakers, Interrupters, Relays and control panel etc. with experience of executing works under power block which should include activities planned for execution of work”.

**C Financial capability**

<b>S. N</b>	<b>Financial capability</b>	<b>Requirement</b>
1	The Tenderer(s) should have received a total contractual amount during the last three financial years and in the current financial year up to last date of submission of tender.	“Should be a minimum of 150 % of advertised tender value of work. Certified true copy of audited annual account are to be submitted as a proof along with bid documents. In case the annual account are not audited, the contract sum received for the required period should be duly certified by the chartered accountant.”

1. Each tenderer has to satisfy the eligibility criteria for technical capability, competence as well as for financial capacity and organizational resources as specified in the tender documents to qualify for consideration of bid submitted by tenderer(s).
2. There should not be any unsatisfactory performance Report of the Contractor from any source.
3. Tenderer(s) may please note that their offers will be evaluated as per the credentials/ documents attached by the tenderer(s) along with the tender.

**GENERAL INFORMATION**

<b>Tender Notice No.</b>	<b>Tender No. AII/EL/Tender/2020-2</b>
<b>Name of the work</b>	<b>Maintenance of 2x25 KV High Rise Overhead equipment along with Power Supply Installation maintenance on Madar-Iqbalgadh section of DFCCIL including IR connecting lines for a period of 12 Months under CGM Ajmer.</b>
<b>a) Tendered Value/ Estimated Cost</b>	Rs.3,22,50,923/- (Rs. Three Crore Twenty Two Lakh Fifty Thousand Nine Hundred twenty Three only) + GST
<b>b) Completion period</b>	Total 12 (Twelve) Months
<b>c) Earnest Money</b>	Nil
<b>d) Cost of Document</b>	Nil
<b>(e) Last Date and Time of Downloading of Tender from website ireps.gov.in/DFCCIL and www.dfccil.gov.in</b>	20.04.2021 up to 15:00 hrs.
<b>(f) Last date and Time of online submission of Tender on website ireps.gov.in/DFCCIL</b>	20.04.2021 up to 15:00 hrs.
<b>(g) Date and Time of Opening of Tender</b>	20.04.2021 at 15:30 hrs
<b>i) Validity of Offer</b>	<b>90 days</b>
<b>j) Retention Money / Security deposit</b>	Earnest Money deposit of the successful tenderer shall be converted into security deposit. Balance security deposit shall be recovered @6% through running account bills till it reaches 5% of the contract value.
<b>k) Performance Guarantee (PG) in the form of Bank Guarantee or Fixed Deposit Receipt (FDR)</b>	To be submitted within <b>21 days</b> from the date of issue of Acceptance Letter by DFCCIL. (an irrevocable <b>bank guarantee or Fixed Deposit receipt (FDR)</b> for the amount <b>3%</b> of the contract value.)

**(INSTRUCTIONS TO TENDERER)**

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**Instructions to Tenderer****General (for on line 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. For conducting electronic tendering, DFCCIL, Delhi has decided to use the portal (<https://www.ireps.gov.in>). Benefits to Suppliers/service providers are outlined on the Home-page of the portal.

**Instructions****a. Online E-Bidding Methodology:**

Online E- Bid System – Financial bids & Technical bids shall be submitted by the bidder at the same time in single Packet

**b. Broad outline of activities from Bidders perspective:**

- i. Procure a Digital Signing Certificate (DSC)
- ii. Register on Electronic Tendering System (ETS)
- iii. Create Users and assign roles on ETS
- iv. View Notice Inviting Tender (NIT) on ETS
- v. Download Official Copy of Tender Documents from ETS
- vi. Clarification to Tender Documents on ETS – Query to DFCCIL (Optional) - view response to queries posted by DFCCIL, through addenda.
- vii. Bid-Submission on ETS: Prepare & arrange all document/paper for submission of bid online and tender fees & EMD deposit as mentioned in appendix to tender & Notice Inviting E-Tender.
- viii. Attend Public Online Tender Opening Event (TOE) on ETS
- ix. Post-TOE Clarification on ETS (Optional)-Respond to DFCCIL's Post-TOE queries
- x. Attend Public Online Tender Opening Event (TOE) on ETS

For participating in this tender online, the following instructions are to be read carefully. These instructions are supplemented with more detailed guidelines on the relevant screens of the ETS.

**Note 1:** It is advised that all the documents to be submitted are kept scanned and converted to PDF format in a separate folder on your computer before starting online submission. The Price bid (Excel Format) may be downloaded and rates may be filled appropriately. This file may also be saved in a secret folder on your computer.

**Note 2:** While uploading the documents, it should be ensured that the filename should be the name of the document itself.

**c. Digital Certificates**

For integrity of data and its authenticity/non-repudiation of electronic records and to be compliant with IT Act 2000, it is necessary for each user to have a Digital Certificate (DC), also referred to as Digital Signature Certificate (DSC), of Class-III issued by a Certifying Authority (CA) licensed by Controller of Certifying Authorities (CCA) [refer <http://www.cca.gov.in>].

**d. Registration**

The Tender document can be downloaded from the website: [www.ireps.gov.in](http://www.ireps.gov.in) and to be submitted in the e-format. Cost of the Tender Document and Bid Security have to be submitted online as per the banks details mentioned in tender document to Concern otherwise the Bid will not be considered. Amendments, if any, to the tender document will be notified in the above website as and when such amendments are notified. It is the responsibility of the bidders who have downloaded the tender document from the website to keep themselves abreast of such amendments before submitting the tender document.

Intending bidders are requested to register themselves with [ireps.gov.in](http://ireps.gov.in) for obtaining user-id, Digital Signature etc. by paying Vendor registration fee and processing fee for participating in the abovementioned tender.

- e. DFCCIL, has decided to use process of e-tendering for inviting this tender and thus the physical copy of the tender would not be sold.

- 1.2. After successful submission of Registration details and Vendor registration fee and processing fee (as applicable), please contact Helpdesk to get your registration accepted/activated.

**2 A. General**

**Name of the Work:** As indicated in “Appendix to Tender”.

“A bidder in the capacity of Individual or Sole Proprietor, Partnership Firm, or Company can participate in the tender and the bidder must forward attested copies of the constitution of its firm such as partnership deed, Memorandum & Articles of Association, etc. along with original Power of Attorney of authorized signatory”.

The work is proposed to be executed under the following relationship.

A) **Employer:** DFCCIL address as given in “Appendix to Tender”.

B) **Contractor:** The successful tenderer to whom the work is awarded shall become the contractor for the execution of this work.

Throughout these bidding documents, the terms “bid” and “tender” and their derivatives (“bidder”/“tenderer”), “bid/tendered”, “bidding”/“tendering”, etc.) are synonymous. Day means calendar day. Singular also means plural.

Scope of Work as indicated in “Appendix to Tender”.

**Maintenance of 2x25 KV High Rise Overhead equipment along with Power Supply Installation maintenance on Madar-Iqbalgadh section of DFCCIL including IR connecting lines for a period of 12 Months under CGM Ajmer.**

The scope given above is only indicative. The detailed scope has been described in the tender documents (Special condition of contract at clause no 4.0).

Approximate Estimated cost of the work is as indicated in the “Appendix to Tender”.

Tenderers may carefully 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. In addition the EMD of such tenderer shall be forfeited. The decision of Employer in this respect shall be final and binding.

A bidder shall submit only one bid in the capacity of an Individual or Sole Proprietor, Partnership firm or Company. Violation of this condition is liable to disqualify the tenders in which such bidder has participated and EMD of all such tenderers shall stand forfeited.

**3 Cost of Bidding**

The bidder shall bear all costs associated with the preparation and submission of the bid and the Employer will in no case be responsible or liable for these costs regardless of the conduct or the outcome of the bidding process.

**B. The Bidding Documents**

**4 Content of bidding documents submitted through online mode only**

The bidding documents include the following:

- a) Notice Inviting Tender
- b) Instructions to tenderers
- c) Appendix to Tender
- d) Form of Bid
- e) Special Conditions of Contract
- f) General Conditions of Contract
- g) Financial bid and Bill of Quantities

The bidder is expected to examine all instructions, terms, conditions, forms, specifications and other information in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the bidders' risk and may result in rejection of his bid.

**Understanding and Amendment of Tender Documents**

The bidder must obtain for itself on its own responsibility and its own cost all the information including risks, contingencies & other circumstances in execution of the work. It shall also carefully read and understand all its obligations & liabilities given in tender documents.

The bidder is advised to visit and examine the site where the work is to be executed and its surroundings or other areas as deemed fit by the bidder and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and execution of the contract. The cost of visiting the site and collecting relevant data shall be at the bidder's own expenses. It is a condition of the tender that the tenderer is deemed to have visited the site and satisfied himself with all the conditions prevailing including any difficulties for executing the work.

At any time prior to the deadline for submission of bids, Employer may for any reason whether at its own initiative or in response to any request by any prospective bidder amend the bidding documents by issuing Corrigendum, which shall be part of the Tender documents.

Employer may at its discretion extend the deadline for submission of the bids at any

time before the time of submission of the bids.

**C. Preparation of the Bids**

**6 Language of Bid**

- 6.1 The bid prepared by the bidder and all documents related to the bid shall be written in English.

**7 Signing of All Bid papers and Completing Bill of Quantities**

All the pages of the tender documents and Bill of Quantities submitted by tenderer shall be signed and stamped by the tenderer or his representative holding the Power of Attorney (Enclose original Power of Attorney).

While filling up the rates in the Bill of Quantities, tenderer shall ensure that there is no discrepancy in the rates mentioned in figures. In case of any discrepancy, the unit rate mentioned in the words shall be taken as final and binding.

The prices must be filled after downloading the financial bid document in the prescribed format issued through online e-tendering website. The financial bid should be saved and dully filled up and uploaded on the e-tendering web site using Digital Signature for signing the documents.

The tenderer must fill and submit the prices as per instructions given in schedule of rates. He shall not make any addition or alteration in the tender documents. The requisite details should be filled in by the tenderer wherever required in the documents. Incomplete tender or tender not submitted as per instructions is liable to be rejected. If a tenderer does not quote a price/rate as per instructions, his tender shall be summarily rejected.

The tenderer must ensure that tender documents shall be submitted on line through Digital Signature only..

**8 Deviations**

The tenderer should clearly read and understand all the terms and conditions, specifications, etc. mentioned in the original tender documents. If the tenderer has any observations, the same may be indicated in his forwarding letter along with the tender. Tenderers are advised not to make any corrections, additions or alterations in the in his own entries the same shall be initialed and stamped by him. If this condition is not complied with, tender is liable to be rejected.

**9 Transfer of tender documents**

Transfer of tender documents purchased by one intending tenderer to another tenderer is not permissible. Tenderer can submit tender only on the documents purchased by him.

**10 Earnest Money**

For the subject tender, the Earnest Money deposit shall be Rs **NIL** and shall be governed by following Para.

In case the Earnest Money Deposit for the tender is NIL, following conditions shall be fulfilled These instructions shall be followed for all works & service tenders on DFCCIL, published on or after 18:00 hrs of 16.01.2021 and shall be valid for all the tenders issued till 31.12.2021 (including 31.12.2021)

- (i) Tender shall submit the Bid Security declaration duly signed by the tenderer as per the proforma at Annexure-XXXV.
- (ii) In case, the tenderer withdraw the bid within bid validity period or if awarded the tender and on being called upon to submit the Performance Guarantee/ Performance Security fail to submit the same within the stipulated time period mentioned in tender documents or on being called upon to sign the contract agreement fail to sign the same within stipulated period mentioned in tender documents, the bidder shall be banned from submission of bids in any Works/ Service Tender issued by DFCCIL for a period of 12 months from the date of such banning done on e-platform IREPS.
- (iii) The banning shall be as per the decision of Competent Authority and banning shall be effective w.e.f. date and time when same is done on IREPS by 'department Admin'.
- (iv) The defaulting bidder shall be banned as per the provision made in IREPS in case partnership firm/JV is banned, all members of partnership firm including firm/ all constituents of JV including JV shall be banned from submission of bids and details of all shall be uploaded on IREPS.
- (v) It is responsibility of Tender Committee or Direct Acceptance Authority (in case of direct acceptance), for the tenders invited on IREPS or otherwise, to check up on IREPS, whether the bidder is banned or not from bidding on the date of closing of tender.
- (vi) Whenever a bidder is banned or banning is revoked, a system generated SMS as well as e-mail shall be sent to bidder. Full details related to banning will also be available to IREPS registered firms through their IREPS account.
- (vii) If the bidder is banned for submission of bids on the date of closing of tender, such bid, even if received, shall be treated as invalid while evaluating the bids.
- (viii) If a bidder is banned for submission of bids on the request of bidder in writing to tender calling authority, ban can be revoked by the Authority who had banned the bidder earlier, on submission to DFCCILs by bidder (including Start-ups, 100% Govt. owned PSUs & Labour Co-operatives), an amount equivalent to FULL Earnest Money Deposit that would have been worked out by DFCCILs for that tender as per existing instructions on the date of inviting tenders if Earnest Money Deposit would have been taken in place of Bid Security Declaration while inviting tenders.
- (ix) On receipt of request from bidder for revocation of ban on submission of bids, the Authority who had banned the bidder from submission of bids, shall intimate in writing to bidder the amount the bidder has to deposit with DFCCILs. Bidder in turn shall deposit the required amount in DFCCIL earnings and submit the receipt for the same.
- (x) Revocation shall be automatic on expiry of banned period. However, in case revocation is done before expiry of banned period, the banning shall stand revoked w.e.f. date & time when the same is done on IREPS by Department Admin.

(Railway Board Letter no 2020/CE-1/CT/3E/GCC/Policy dated 30.12.20 )

#### 11. **Period of validity of the tender:**

The tender shall remain valid for the period indicated in "Appendix to Tender" after the date of the opening of the tender. If the Tenderer gives validity period less than that fixed/prescribed by Employer, the tender shall be liable to be rejected.

Notwithstanding the above clause, Employer may solicit the tenderer's consent to an extension of the validity period of the tender. The request and the response shall be made in writing.

#### D. **Submission of Bids**

#### 12. **Deadline for submission of tender**

The tender documents shall be submitted in online mode through website **www.ireps.gov.in** in single bids only. Single offer viz. containing Technical offer

and financial offer along with necessary documents Detailed credentials as per the requirement of eligibility criteria and all tender papers except Bill of Quantities are to be uploaded in “**Technical offer**”. Bill of Quantities with rates duly filled in are to be uploaded in “**Financial offer**”. **Bids are required to be submitted only by online mode. The prices must be filled after downloading the financial bid document in the prescribed format issued through online e-tendering website. The financial bid should be saved and dully filled up and uploaded on the e-tendering web site using Digital Signature class 3 for signing the documents.**

A tender received without on line to Employer is liable to be rejected. Bidder cannot see uploaded/ quoted rate once saved. Bidder can anytime change quoted rated before date & time of closing of tender.

Original EMD & tender document fees received after opening of the tender shall be rejected.

### **13 Withdrawal of tender**

No tender can be withdrawn after submission and during tender validity period.

- 14** Submission of a tender by a tenderer implies that he had read all the tender documents including amendments if any, visited the site and has made himself aware of the scope and specifications of the work to be done, local conditions and other factors having any bearing on the execution of the work.

### **15 Submission of tender/bid:-**

- a. The tenders shall be submitted on or before the due date and time with all the relevant documents as mentioned in **Para 4.1** and the following:
  - i. Forwarding letter of the tenderer.
  - ii. Documents to be submitted as per checklist of documents
  - iii. Scanned copy of Earnest Money Deposit & tender document fees.
  - iv. The Bill of Quantities with prices quoted as mentioned.
- b. Earnest Money and tender document fees shall be deposited in DFCCIL account & proof of transaction along with transaction ID to be scanned & uploaded along with Tender document.

### **Bid opening and Evaluation**

#### **16 Opening of the tender**

Tenders will be opened on line at the address mentioned in “Notice Inviting Tender” in presence of tenderers or authorized representatives of tenderers who wish to attend the opening of tenders.

Tenderers or their authorized representatives who are present shall sign register in evidence of their attendance.

Tenderer’s name, presence or absence of requisite Earnest Money, total cost of work quoted or any other details as Employer may consider appropriate will be announced and recorded at the time of bid opening.

#### **17 Clarification of the tenders**

- 17.1 To assist the examination, evaluation and comparison of the tenders, Employer may at his discretion ask the tenderers for any clarifications as considered essential. All such correspondence shall be in writing and no change in price or substance of the

tender shall be sought or permitted. The above clarification for submission of the details shall form part of the tender and shall be binding on tenderer.

## 18 **Preliminary examination of bids**

The Employer shall examine the bids to determine whether they are complete, whether any computational errors have been made, whether the documents have been properly signed and whether the bids are generally in order.

Arithmetical errors shall be rectified on the following basis if found. If there is a discrepancy between the unit price and the total price, which is obtained by multiplying the unit price and quantity, or between subtotals and the total price, the unit or subtotal price shall prevail, and the total price shall be corrected. If there is a discrepancy between words and figures, the rate in words shall prevail.

Prior to the detailed evaluation, Employer shall determine whether each bid is of acceptable quality, is generally complete and is substantially responsive to the bidding documents. For purposes of this determination, a substantially responsive bid is one that conforms to all the terms, conditions and specifications of the bidding documents without material deviations, objections, conditionality or reservation. A material deviation, objections, conditionality or reservation is one:

- i) That affects in any substantial way the scope, quality or performance of the contract.
- ii) That limits in any substantial way, inconsistent with the bidding documents, the Employer's rights or the successful Bidders obligations under the contracts; or
- iii) Whose rectification would unfairly affect the competitive position of other Bidders who are presenting substantially responsive bids.

If a bid is not substantially responsive, it shall be rejected by the Employer.

In case of tenders containing any conditions or deviations or reservations about contents of tender document, Employer may ask for withdrawal of such conditions/deviations/reservations. If the tenderer does not withdraw such conditions/deviations/ reservations, the tender shall be treated as non responsive. Employer's decision regarding responsiveness or non-responsiveness of a tender shall be final and binding.

## 19 **Evaluation and comparison of tenders**

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

The Employer/Engineer reserves the right to negotiate the offer submitted by the tenderer to withdraw certain conditions or to bring down the rates to a reasonable level. The tenderer must note that during negotiations of rates of items of BOQ can only be reduced and not increased by the tenderer. In case the tenderer introduces any new condition or increases rates of any item of BOQ, his negotiated offer is liable to be rejected and the original offer shall remain valid and binding on him.

## 20 **Canvassing**

No tenderer is permitted to canvass to Employer on any matter relating to this tender. Any tenderer found doing so may be disqualified and his bid may be rejected.

**21. Right to accept any tender or reject all tenders**

Employer/Engineer reserves the right to accept, split, divide, negotiate, cancel or reject any tender or to annul and reject all tenders at any time prior to the award of the contract without incurring any liability to the affected tenderers or any obligation to inform affected tenderer, the grounds of such action.

**22.** If the tenderer, as individual or as a partner of partnership firm, expires after the submission of his tender but before award of work, the Employer/Engineer shall deem such tender as invalid.

**23. Award of Contract**

Employer/Engineer shall notify the successful tenderer in writing by a Registered Letter/Courier/Speed Post or per bearer that his tender has been accepted.

Letter of Acceptance after it is signed by the Contractor in token of his acceptance shall constitute a legal and binding contract between Employer/Engineer and the contractor till such time the contract agreement is signed.



**FORMAT-I****DETAILS OF SIMILAR WORKS COMPLETED IN LAST THREE YEARS**

<b>S. N.</b>	<b>Description of the work</b>	<b>Contract No. and date</b>	<b>Date of award of work</b>	<b>Stipulated date of completion</b>	<b>Date of actual completion</b>	<b>Value of completed work (In Lakhs of Rs)</b>	<b>Reasons of delays, if any</b>	<b>Penalty. If any, imposed for delay</b>	<b>Any other relevant information</b>	<b>Remarks</b>
1										
2										
3										
4										
5										

**Note:**

- 1. Please attach copies of the certificates issued by the client.**
- 2. Only those works shall be considered for evaluation for which copies of the Certificates issued by the client are attached.**

**FORMAT - II****ANNUAL TURNOVERS FOR THE LAST 3 YEARS**

<b>S.N.</b>	<b>YEAR</b>	<b>Turnover from similar nature of works (In lacks of Rs)</b>	<b>Turnover from all sources (In lacs of Rs)</b>	<b>Remarks</b>
1				
2				
3				
4				
5				

Note:

1. Please attach certified/attested copies in support of which the attested certificate from Employer/Client, TDS certificate/Audited Balance Sheet/P&L Account duly certified by Chartered Accountant etc.

**FORMAT-III****DETAILS OF ONGOING WORKS**

<b>S. N.</b>	<b>Description of the work</b>	<b>Name and address of Employer</b>	<b>Contract No. and date</b>	<b>Date of award of work</b>	<b>Stipulated date of completion</b>	<b>Value of work as per order (In Lakhs of Rs)</b>	<b>Value of work completed so far (In Lakhs of Rs)</b>	<b>Anticipated date of completion of work</b>	<b>Any other relevant information</b>	<b>Remarks</b>
1										
2										
3										
4										
5										
6										
7										
8										
9										

**Note: 1.** In case of joint venture, the information is to be furnished by both the partners – *Not applicable for this tender.*

# **GENERAL CONDITIONS OF CONTRACT**

## GENERAL CONDITIONS OF CONTRACT

### DEFINITIONS AND INTERPRETATION

- 1. (1) Definition: -** In these General conditions of Contract, the following terms shall have the meaning assigned hereunder except where the context otherwise requires:-
- (a) “Railway” shall mean the President of the Republic of India or the Administrative Officers of the DFCCIL or of the Successor DFCCIL authorized to deal with any matters which these presents are concerned on his behalf.
  - (b) “General Manager of Railway ” shall mean the officer - in-charge of the General Superintendence and Control of the Railway and shall mean and include their successors, of the successor Railway;
  - (c) “Chief Engineer” shall mean the officer - in-charge of the Engineering Department of Railway and shall also include Chief Engineer (Construction), Chief Signal and Telecommunication Engineer, Chief Signal and Telecommunication Engineer(Construction), Chief Electrical Engineer, Chief Electrical Engineer(Construction) and shall also include CPM/GGM/GM of DFCCIL.
  - (d) “Divisional Railway Manager” shall mean the Officer in-charge of a Division of the Railway and shall also mean any officer nominated by Managing Director / DFCCIL and shall mean and include their successors of the successor Railway.
  - (e) “Engineer” and Employer’s Engineer shall mean the Chief General Manager of DFCCIL / PMC appointed by DFCCIL.
  - (f) “Engineer’s Representative” shall mean the Assistant Engineer, Assistant Signal and Telecommunication Engineer and Assistant Electrical Engineer, APM / PM / Dy. CPM / Add. CPM of DFCCIL in direct charge of the work and shall include any Sr. Sec. / Sec / Jr. Engineer / Executive / Sr. Executive, APM/PM / Dy.CPM of DFCCIL of Civil Engineering / Signal & Telecommunication Engineering / Electrical Engineering Department appointed by the Railway / DFCCIL and shall mean and include the Engineer’s Representative of the successor Railway / DFCCIL.
  - (g) “Contractor” shall mean the person / Firm / Company whether incorporated or not who enters into the contract with the DFCCIL and shall include their executors, administrators, and successors and permitted assigns.
  - (h) “Contract” shall mean and include the Agreement of Work Order, the accepted schedule of rates of the Schedule or Rates of Railway/DFCCIL modified by the tender percentage for items of work quantified, or not quantified, General Conditions of Contract, Special Conditions of Contracts, if any, Drawings, Specifications, Additional / Special Specifications, if any and tender forms, if any, and all other documents included as part of contract .’
  - (i) “Works” shall mean the works to be executed in accordance with the contract.
  - (j) “Specifications” shall mean the Specifications for materials and works referred / mentioned in tender documents.
  - (k) “Schedule of rates of Railway” shall mean the schedule of rates issued under the authority

of the Chief Engineer from time to time and shall also include Rates specified in tender document.

- (l) “Drawing” shall mean the maps, drawings, plans and tracings or prints there of annexed to the contract and shall include any modifications of such drawings and further drawings as may be issued by the Engineer from time to time.
  - (m) “Constructional Plan” shall mean all appliances or things of whatsoever nature required for the execution, completion or maintenance of the works or temporary works (as hereinafter defined) but does not include materials or other things intended to form or forming part of the permanent work.
  - (n) “Temporary Works” shall mean all temporary works of every kind required for the execution completion and/or maintenance of the works.
  - (o) “Site” shall mean the lands and other places on, under, in or through which the works are to be carried out and any other lands or places provided by the Railway for the purpose of the contract.
  - (p) “Period of Maintenance” shall mean the defect liability period from the date of completion of the works as certified by the Engineer.
- 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 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 the jurisdiction of one Railway to another Railway or to a Project Authority/ DFCCIL or vice versa while contract is in subsistence, the contract shall be binding on the Contractor and the Successor Railway/Project in the same manner & take effect all respects as if the Contractor and the Successor Project were parties there to from the inception and the corresponding officer or the Competent Authority in the Successor Railway/Project will exercise the same powers and enjoy the same authority as conferred to the Predecessor Railway/Project under the original contract/agreement entered into.
- 2.(3) If for administrative or other reasons the contract is transferred to the Successor Railway/Successor Project Authority of DFCCIL the contract shall notwithstanding any things contained herein contrary there to, be binding on the Contractor and the Successor Railway /Project Authority/ DFCCIL in the same manner and take effect in all respect as if the Contractor and the Successor Railway/ successor Project Authority of DFCCIL had been parties thereto from the date of this contract. The contract shall be Administered/Managed by GGM/GM/Co/ GM nominated by DFCCIL.
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 by-laws of any location 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.
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 inters concerning the work shall be in writing and no notice, communication, reference or complaint not in writing 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 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 Railway/DFCCIL shall be occupied by the Contractor without the permission of the Railway/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 railway premises with competent authority's approval, conservancy charges as applicable from time to time may be levied.
7. **Assignment or subletting of contract:-** The contractor shall not assign or sublet the contract or any part thereof or allow any person to become interested therein in any manner whatsoever without the special permission in writing of the DFCCIL. Any breach of this condition shall entitle the DFCCIL to rescind the contract under clause 62 of these conditions and also render the contractor liable for payment to the 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. The permitted subletting of work by the contractor shall not establish any contractual relationship between the sub-contractor and the DFCCIL and shall not relieve the contractor of any responsibility under the contract.
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 no supply.
9. **Deleted**
10. **Carriage of materials:-** No forwarding orders shall be issued by the DFCCIL for the conveyance of contractor's materials, tools and plant by Rail which may be required for use in the works and the contractor shall pay full freight charges at public tariff rates therefore.
11. **Deleted**
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 and other minerals of any description and 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, 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 Railway/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 Railways/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 earnest money deposited by the contractor with this tender will be retained by the DFCCIL as part of security for the due and faithful fulfilment of the contract by the contractor. The balance to make up the security deposit, the rates for which are given below, may be deposited by the contractor in cash or may be recovered by percentage deduction from the contractor's "on account" bills. 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 may not exceed 5% of the total value of the contract.
- 16.(2) **Recovery of Security Deposit:-** Unless otherwise specified in the special conditions, if any, the Security Deposit / rate of recovery / mode of recovery shall be as under:
  - (a) Security Deposit for each work should be 5% of the contract value.
  - (b) The rate of recovery should be at the rate of 6% of the bill amount till the full security Deposit is recovered.
  - (c) Security Deposits will be recovered only from the running bills of the contract and no other mode of collecting SD such as SD in the form of instruments like BG (except Note (ii) below); FD etc. shall be accepted towards Security Deposit. Security deposit shall be returned to the contractor after the expiry of the Defect Liability Period in all the cases other than Note (i) mentioned below and after passing the final bill based on No

Claim Certificate with the approval of the Competent Authority. The Competent Authority shall normally be the authority who is competent to sign the contract. If this competent authority is of the rank lower than JA grade / General Manager/Co, DFCCIL, then JA grade officer / General Manager/Co, DFCCIL (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 Railways/DFCCIL against the contract concerned. Before releasing the SD, an unconditional and unequivocal no claim certificate from the contractor concerned should be obtained.

**Note:-**

- (i) After the work is physically completed, security deposit recovered from the running bills of a contractor can be returned to him if he so desires, in lieu of FDR / irrevocable Bank Guarantee for equivalent amount to be submitted by him.
- (ii) In case of contracts of value Rs.50 crore and above, irrevocable Bank Guarantee can also be accepted as a mode of obtaining security deposit.

- 16.(3)** No interest will be payable upon the Earnest Money and Security Deposit or amounts payable to the contractor under the contract, but Government Securities deposited in terms of Sub-clause (1) of this clause will be payable with interest accrued thereon.

**16. (4) Performance Guarantee (P.G.)**

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 Earnest Money Deposit and other dues payable against that contract. In case a tenderer has not submitted Earnest Money Deposit on the strength of their registration as a Startup recognized by Department of Industrial Policy and Promotion (DIPP) under Ministry of Commerce and Industry, DIPP shall be informed to this effect. The failed Contractor shall be debarred from participating in re-tender for that work.
- (b) The successful bidder shall submit the Performance Guarantee (PG) in any of the following forms, amounting to 3% of the contract value (for all tenders issued till 31.12.2021). The reduced percentage of Performance Security shall continue for the entire duration of the contract and there shall be no subsequent increase of Performance Security even beyond 31.12.2021.
  - (i) A deposit of Cash;
  - (ii) Irrevocable Bank Guarantee;
  - (iii) Government Securities including State Loan Bonds at 5% below the market value;
  - (iv) Deposit Receipts, Pay Orders, Demand Drafts and Guarantee Bonds. These forms of Performance Guarantee could be either of the State Bank of India or of any of the Nationalized Banks;
  - (v) Guarantee Bonds executed or Deposits Receipts tendered by all Scheduled Banks;

- (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 CPM, DFCCIL, Ajmer (free from any encumbrance) may be accepted.
- (c) The Performance Guarantee shall be submitted by the successful bidder after the Letter of Acceptance (LOA) has been issued, but before signing of the contract agreement. This P.G. shall be initially valid up to the stipulated date of completion plus 60 days beyond that. In case, the time for completion of work gets extended, the Contractor shall get the validity of P.G. extended to cover such extended time for completion of work plus 60 days
  - (d) The value of PG to be submitted by the Contractor will not change for variation up to 25% (either increase or decrease). In case during the course of execution, value of the contract increases by more than 25% of the original contract value, an additional Performance Guarantee amounting to 3% (Three percent) for the excess value over the original contract value shall be deposited by the Contractor. On the other hand, if the value of contract decreases by more than 25% of the original contract value, Performance Guarantee amounting to 3% (Three percent) of the decrease in the contract value shall be returned to the Contractor. The PG amount in excess of required PG for decreased contract value, available with DFCCIL, shall be returned to Contractor as per his request duly safeguarding the interest of DFCCIL.
  - (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 shall not make claim under the Performance Guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the agreement) in the event of:
    - (i) Failure by the Contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer may claim the full amount of the Performance Guarantee.
    - (ii) Failure by the Contractor to pay President of India any amount due, either as agreed by the Contractor or determined under any of the Clauses/Conditions of the Agreement, within 30 days of the service of notice to this effect by Engineer.

The Contract being determined or rescinded under clause 62 of the GCC .

(As per Clause No.16.(4), Part-II of GCC-2020, with up to date correction slip )

- 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, strikes, lockouts or act 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 of 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.

**17-A 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 Railways/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 reasons 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 endeavors to bring down or make good the delay and shall do all that may be reasonably required of him to the satisfaction of the Engineer to proceed with the works. The contractor may also indicate the period for which the work is likely to be delayed and shall be bound to ask for necessary extension of time. 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 Railways / DFCCIL:-** In the event of any failure or delay by the Railway / 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 therefore, but in any such case, the DFCCIL may grant such extension or extensions of the completion date as may be considered reasonable.

**Extension of time 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 no later than the date(s) as specified in the contract. If the contractor fails to complete the works within the time as specified in the contract for the reasons other than the reasons specified in clause 17 and 17-A, the DFCCIL may, if satisfied that the works can be completed by the contractor within reasonable short time thereafter, allow the contractor for further extension of (Performa at Form No. 14) time as the Engineer may decide. On such extension the DFCCIL will be entitled without prejudice to any other right and remedy available on that behalf, to recover from the contractor as agreed damages and not by way of penalty a sum equivalent to  $\frac{1}{2}$  of 1% of the 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 the under noted percentage 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.

- (i) For contract value up to Rs. 2 lakhs - 10% of the total value of the contract
- (ii) For contracts valued above Rs. 2 lakhs- 10% of the first Rs.2 lakhs and 5% of the balance

Further competent authority while granting extension to the currency of contract under clause 17. (B) Of GCC may also consider levy of token penalty as deemed fit based on the merit of the case. Provided further, that if the DFCCIL is not satisfied that the works can be completed by the Contractor and in the event of failure on the part of the contractor to complete the work within further extension of time allowed as aforesaid, the DFCCIL shall be entitled without prejudice to any other right or remedy available in that behalf, to appropriate the contractor's security deposit and rescind the contract under clause 62 of these conditions, whether or not actual damage is caused by such default.

**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 any moneys due to the Contractor(s) under this contract or any other contracts with the 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/Ajmer 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/PERT/ General Manager/Co. 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.
- 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 order in which the several parts of the works shall be executed and the contractor shall execute without delay all orders given by the Engineer from time to time but the contractor shall not be relieved thereby from responsibility for the due performance of the works in all respects.
- 20.(2) Alterations to be authorized:-**No alterations in or additions to or omissions or abandonment of any part of the works shall be deemed authorized, except under instructions from the Engineer, and the contractor shall be responsible to obtain such instructions in each and every case in writing 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 contractors 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 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 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 therefore and shall be responsible for all loss to the DFCCIL.
- 22. (2) Drawings and specifications of the works: -** The contractor shall keep one copy of drawings and specifications at the site, in good order, and such contract documents as may be necessary available to the Engineer or the Engineer's representative.
- 22. (3) Ownership of drawings and specifications:-** All drawings and specifications and copies

thereof furnished by the DFCCIL to the Contractor are deemed to be the property of the DFCCIL. They shall not be used on other works and with the exception of the signed contract set, shall be returned by the contractor to the DFCCIL on completion of the work or termination of the contract.

- 22.(4) Compliance with Contractor's request for details:-** The Engineer shall furnish with reasonable promptness, after receipt by him of the contractor's request 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 Chief Engineer/ General Manager/Co 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/DFCCIL.
- 24. Damage to Railway / 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 Railway/DFCCIL or the lives, persons or property of others from whatsoever cause in connection with the works until they are taken over by the Railway/ DFCCIL and this although all reasonable and proper precautions may have been taken by the contractor, and in case the Railway / D F C C I L 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 Railway / 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 necessary for the execution of the works.

**26. Provision of efficient and competent Staff at work sites by the Contractor:-**

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.

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.

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 Railway 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 or Qualified Diploma Holder Engineer, based on value of contract, as may be prescribed by the Ministry of Railways through separate instructions from time to time.

**26A.2** In case the contractor fails to employ the Engineer, as aforesaid in Para 26A.1, he shall be liable to pay penalty at the rates, as may be prescribed by the Ministry of Railways through separate instructions from time to time for the default period for the provisions, as contained in Para 26A.1.

**26A.3** Deleted

**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 may be found requisite to be 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.
- 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 rejected 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)** Deleted
- 31.(3)** Deleted

**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) Deleted**

**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 Railway / 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 Railway / 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 Railway / 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) Tools, Plant and Materials Supplied by Railway / DFCCIL: -** The Contractor shall take all reasonable care of all tools, plant and materials or other property whether or a like description or not belonging to the Railway/DFCCIL and committed to his charge for the purpose of the works and shall be responsible for all damage or loss caused by him, his agents, permitted subcontractor, or his workmen or others while they are in his charge. The Contractors shall sign accountable receipts for tools, plants and materials made over to him by the engineer and on completion of the works shall hand over the unused balance of the same to the Engineer in good order and repair, fair wear and tear excepted, and shall be responsible for any failure to account for the same or any damage done thereto.

**33.(2) Hire of DFCCIL / Railway's Plant:-** The Railway / DFCCIL may hire to the Contractor such plant as concrete mixers, compressors and portable engines for use during execution of the works on such terms as may be specified in the special conditions or in a separate agreement for Hire of Plant.

**34. (1) Precaution during progress of works: -** During the execution of works, unless otherwise specified, the Contractor shall at his own cost provide the materials for and execute all shoring, timbering and strutting works as is necessary for the stability and safety of all structures, excavations and works and shall ensure that no damage, injury or loss is caused or likely to be caused to any person or property.

**34.(2) Roads and Water courses:-** Existing roads or water courses shall not be blocked, cut through, altered, diverted or obstructed in any way by the Contractor, except with the permission of the Engineer. All compensations claimed for any unauthorized closure, cutting through, 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 by deduction from any sums which may become due to him in terms of contract, or otherwise according to law.

**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/Railway property and shall post such look out men as may in the opinion of the Engineer be required to comply with regulations pertaining to the work.

**35. Deleted.**

**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.

**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 Schedule of Rates 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.

**38. Deleted**

**39.(1) Rates for extra items of works:-** Any type of work carried out by the Contractor on the instructions of the Engineer which is not included in the accepted schedules of rates shall be executed at the rates set forth in the "Schedule of Rates of Railway" modified by the tender percentage and such items are not contained in the latter, at the rate agreed upon between the Engineer and the Contractor before the execution of such items of work and the Contractors shall be bound to notify the Engineer at least seven days before the necessity arises for the execution of such items of works that the accepted schedule of rates does not include rate or rates for the extra work involved. The rates payable for such items shall be decided at the meeting to be held between the Engineer and Contractor, in as short a period as possible after the need for the 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.

**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 General Manager/Co. within 30 days of getting the decision of the Engineer, supported by analysis of the rates claimed. The General Manager/CO.'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: - T h e** 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 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 effected by means of public sales of such materials and property or in such a way as deemed fit and convenient to the Engineer.

### **VARIATIONS IN EXTENT OF CONTRACT**

- 41. Modification to contract to be in writing: -** In the event of any of the provisions of the contract requiring 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 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. 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.
- (ii) In case of earthwork, the variation limit of 25% shall apply to the gross quantity of earth work and variation in the quantities of individual classifications of soil shall not be subject to this limit.
- (iii) In case of foundation work, no variation limit shall apply and the work shall be carried out by the contractor on agreed rated irrespective of any variation.
- 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 therefore shall be calculated in accordance with the accepted schedule of rates. Any extra items / quantities of work falling outside the purview of the provisions of sub-clause (2) above shall be paid for at the rates determined under clause-39 of these conditions.

**42.(4) Variations In Quantities During Execution of Works Contracts :-**The procedure detailed below shall be adopted for dealing with variations in quantities during execution of works contracts:

1. Individual NS items in contracts shall be operated with variation of plus or minus 25% and payment would be made as per the agreement rate. For this, no finance concurrence would be required.
2. In case an increase in quantity of an individual item by more than 25% of the agreement quantity is considered unavoidable, the same shall be got executed by floating a fresh tender. If floating a fresh tender for operating that item is considered not practicable, quantity of that item may be operated in excess of 125% of the agreement quantity subject to the following conditions:
  - (a) Operation of an item by more than 125% of the agreement quantity needs the approval of Competent Authority of DFCCIL;
    - (i) Quantities operated in excess of 125% but up to 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;
    - (ii) Quantities operated in excess of 140% but up to 150% of the agreement quantity of the concerned item shall be paid at 96% of the rate awarded for that item in that particular tender;
    - (iii) Variation in quantities of individual items beyond 150% will be prohibited and would be permitted only in exceptional unavoidable circumstances with the concurrence of associate finance and shall be paid at 96% of the rate awarded for that item in that particular tender.
  - (b) The variation in quantities as per the above formula will apply only to the Individual items of the contract and not on the overall contract value.
  - (c) Execution of quantities beyond 150% of the overall agreement value should not be permitted and, if found necessary, should be only through fresh tenders or by negotiating with existing contractor, with approval of Competent Authority of DFCCIL.
3. in cases where decrease is involved during execution of contract:
  - (a) The contract signing authority can decrease the items up to 25% of individual item without finance concurrence.

- (b) For decrease beyond 25% for individual items or 25% of contract agreement value, the approval of competent authority, after obtaining 'No Claim Certificate' from the contractor and with finance concurrence, giving detailed reasons for each such decrease in the quantities.
  - (c) It should be certified that the work proposed to be reduced will not be required in the same work.
4. 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.
  5. No such quantity variation limit shall apply for foundation items.
  6. As far as SOR items are concerned, the limit of 25% would apply to the value of SOR schedule as a whole and not on individual SOR items. However, in case of NS 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).
  7. - Deleted -
  8. - Deleted -
  9. - Deleted -
  10. The aspect of vitiation of tender with respect to variation in quantities should be checked and avoided. In case of vitiation of the tender (both for increase as well as decrease of value of contract agreement), sanction of the competent authority as per schedule of power of DFCCIL as per single tender should be obtained.

**Note:** Variation to be approved should be limited so as not to completely change the scope, character and purpose of the original contract.



## CLAIMS

- 43. (1) Monthly Statement of Claims:** - The Contractor shall prepare and furnish to the Engineer once in every month 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 and no claim for payment for and 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 schedule annexed to Contract:** - The quantities set out in the accepted schedule of rates 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. Measurement of works:** - The Contractor shall be paid for the works at the rates in the accepted schedule of rates and for extra works at rates determined under Clause 39 of these conditions on the measurements taken by the Engineer or the Engineer’s representative in accordance with the rules prescribed for the purpose by the DFCCIL. The quantities for items the unit of which in the accepted schedule of rates is 100 or 1000 shall be calculated to the nearest whole number, any fraction below half being dropped and half and above being taken as one; for items the unit of which in the accepted schedule of rates is single, the quantities shall be calculated to two places of decimals. Such measurements will be taken of the work in progress from time to time and at such intervals as in the opinion of the Engineer shall be proper having regard to the progress of works. The date and time on which “on account” or final measurements are to be made shall be communicated to the Contractor who shall be present at the site and shall sign the results of the measurements (which shall also be signed by the Engineer or the Engineer’s representative) recorded in the official measurements book as an acknowledgement of his acceptance of the accuracy of the measures. 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.

- 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 or the Engineer’s representative’s certificates of measurements shall be subject to any deductions which may be made under these presents and shall further be subject to, unless otherwise required by Clause 16 of these conditions, a retention of ten percent by way of security deposits, until the amount of security deposit by way of retained earnest money and such retentions shall amount to 10% 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 up to Re. 1/- will be reckoned as Re. 1/-
- 46.(3) On Account Payments not prejudicial to final settlement: -** “On- Account” payments made to the Contractor shall be without prejudice to the final making up of the accounts (except where measurements are specifically noted in the Measurement Book as “Final Measurements” and as such have been signed by the Contractor) and 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) Manner of payment: -** Unless otherwise specified payments to the Contractor will be made by cheque/RTGS but no cheque/RTGS will be issued for an amount less than Rs. 100/-

**46A PRICE VARIATION CLAUSE:**

Not applicable

- 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 passing 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 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.
- 49.0 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 or of the accuracy of any claim or demand made by the Contractor or of additional varied work having been ordered by the Engineer nor shall any other certificate conclude or prejudice any of the powers of the Engineer.
- 50.(1) Maintenance Certificate:-** The Contract shall not be considered as completed until a Maintenance Certificate 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.
- 50.(2) Cessation of Railway's / 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 shall have 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 of the total quantity of work executed by the contractor up to the date of completion and on the accepted schedule or rates and for extra works on rates determined under Clause 39 of these conditions shall be paid to the Contractor subject always to any deduction which may be made under these presents and further subject to the Contractor having delivered to the Engineer either a full account in detail of all claims he may have on the DFCCIL in respect of the works or having delivered "No Claim Certificate" and the Engineer having after the receipt of such account given a certificate in writing that such claims are correct, that the whole of the works to be done under the provisions of the Contracts have been completed, that they have been inspected by him since their completion and found to be in good and substantial order, that all properties, works and things, removed, disturbed or injured in consequence of the works have been properly replaced and made good and all expenses and demands incurred by or made upon the DFCCIL for or in the respect of damage or loss by from or in consequence of the works, have been satisfied agreeably and in conformity with the contract.

**51.(2) Post Payment Audit:-** It is an agreed term of contract that the DFCCIL reserves to itself the right to carry out a post-payment audit and or technical examination of the works and the final bill including all supporting vouchers, abstracts etc. and to make a claim on the contractor for the refund any excess amount paid to him 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.

**51A. 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.

**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.

**52A. 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/Railways' 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 interest.

### **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 on road construction or in building operations or in stone breaking or stone crushing 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 paid by it as aforesaid within seven days after the same shall have been demanded, the Railway/DFCCIL shall be entitled to recover the same from any moneys due or accruing to the Contractor under this or any other Contract with the DFCCIL.

**54A. 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.

**Note:** The contractors are required to engage apprentices when the works undertaken by them last for a period of one year or more and / the cost of works is rupees one lakh or more.

**55.0 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 directly or through petty contractors or sub-contractors employed by him

in the works. If In compliance with the terms of the contract, the Contractor directly or through petty contractors of 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 never the less 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 Railways/DFCCIL deduct the same from moneys due to contractor in the terms of contract. The DFCCIL shall be entitled to deduct from any moneys due to the contractor (whether under this contract or any other contract) all moneys paid or payable by the DFCCIL by the 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.

**55A. Provisions of Contract labour (Regulation and Abolition) Act, 1970:**

- 55A.(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.
- 55A.(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 Contract arising out of the resultant non-execution of the work.
- 55A. (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 said work, as if the labour had been immediately employed by him.
- 55A.(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.
- 55A.(5)** In every case in which, by virtue of the provisions of the aforesaid Act or the Rules, the DFCCIL is obliged to pay any amount of wages to a workman employed by the Contractor or his sub-contractor in execution of the work or to incur any expenditure on account of the Contingent, liability of the DFCCIL due to the contractor's failure to 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 at liberty to recover such amount or part thereof by deducting it from the security deposit and/ or from any sum due by the DFCCIL to the contractor whether under the contract or otherwise. The DFCCIL shall not be bound to contest any claim made against it under sub-section (1) of section 20 and sub-section (4) of section 21 of the aforesaid Act except on the written request of the contractor and upon his giving to the DFCCIL full security for all costs for which the DFCCIL might become liable in contesting such claim. The decision of the DFCCIL regarding the amount actually recoverable from the contractor as

stated above shall be final and binding on the Contractor.

- 55B. 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.
- 55C. 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, must 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.). As per this Act, the tenderer shall be levied a cess @1% of cost of construction work, which would be deducted From each bill. Cost of material, when supplied under a separate schedule item, shall be outside the purview of cess.
- 56.0 Reporting of Accidents of Labour:** - 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 made every arrangements 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 by deducting it from the security deposit or from any sum due by DFCCIL to the Contractor whether under these conditions or otherwise, 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.
- 57A. 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.
- 58.0 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.



- 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.
- 59. (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.
- 59. (3) Preservation of peace: -** The contractor shall take requisite precautions and use his best endeavours to 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 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.
- 59.(4) Sanitary arrangements:-** The contractor shall obey all sanitary rules and carry out all sanitary measures that may from time to time be prescribed by the Railway Medical Authority and permit inspection of all sanitary arrangements at all times by the Engineer, the Engineer's Representative of the Medical staff of the DFCCIL. Should the contractor fail to make the adequate sanitary arrangements, these will be provided by the DFCCIL and the cost therefore recovered from the contractor.
- 59.(5) Outbreak of infectious disease:-** The contractor shall remove from his camp such labour and their families as refuse protective inoculation and vaccination when called upon to do so by the Engineer or the Engineer's representative on the advice of the DFCCIL. 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.
- 59. (6) Deleted**
- 59.(7) Medical facilities at site: -** The Contractor shall provide medical facilities at the site as may be prescribed by the Engineer on the advice of the DFCCIL in relation to the strength of the Contractor's resident staff and workmen.
- 59.(8) Use of intoxicants: -** The sale of ardent spirits or other intoxicating beverages upon the work or in any of the buildings, encampments or tenements owned, occupied by or within the control of the contractor or any of his employees shall be forbidden and the Contractor shall exercise his influence and authority to the utmost extent to secure strict compliance with this condition.
- 59. (9) Non-employment of female labour: -** The Contractor shall see that the employment

of female labour on / in Cantonment areas, particularly in the neighbourhood of soldier's barracks, should be avoided as far as possible.

- 59.(10) 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 Earnest Money Deposits (EMD), Performance Guarantee (PG) and Security Deposits (SD) of that contract.
- 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.
- 60.(2) Medical Certificate of fitness for labour:-** It is agreed that the contractor shall not employ a person above 15 and below 19 years of age for the purpose of execution of work under the contract unless a medical certificate of fitness in the prescribed form (Performa 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 persons shall be examined by a certifying surgeon and such person shall not if the concerned official so directs, be employed or permitted to do any work under this contract unless he has been medically examined and certified that he has been granted a certificate of fitness or a fresh certificate of fitness, as the case may be.

#### **EXPLANATIONS:-**

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

## DETERMINATION OF CONTRACT

- 61.(1) Right of DFCCIL of determine the contract:-** The DFCCIL shall be entitled to determine and terminate the contract at any time should, in the DFCCIL/Railway'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 Railways /DFCCIL shall admit and consider such claims as are deemed reasonable and are supported by vouchers to the satisfaction of the Engineer. The DFCCIL/Railway'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 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
  - (x) Fail to take steps to employ competent or additional staff and labour as required under clause 26 of the conditions
  - (xi) 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
  - (xii) 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.
- (xiii) (A) At any time after the tender relating to the contract, has been signed and submitted by

the Contractor, being a partnership firm admit as one of its partners or employee under it or being an incorporated company elect or nominate or allow to act as one of its directors or employee under it in any capacity whatsoever any retired engineer of the gazetted rank or any other retired gazetted officer working before his retirement, whether in the executive or administrative capacity, or whether holding any pensionable post or not, in the Railways/DFCCIL for the time being owned and administered by the President of India before the expiry of one year from the date of retirement from the said service of such Engineer or Officer unless such Engineer or Officer has obtained permission from the President of India or any officer duly authorized by him in this behalf to become a partner or a director or to take employment under the contract as the case may be, or

**(xiii) (B) Fail to give at the time of submitting the said tender:-**

- (a) The correct information as to the date of retirement of such retired engineer or retired officer from the said service, or as to whether any such retired engineer or retired officer was under the employment of the Contractor at the time of submitting the said tender, or
- (b) The correct information as to such engineers or officers obtaining permission to take employment under the contractor, or
- (c) Being a partnership firm, the correct information as to, whether any of its partners was such a retired engineer or a retired officer, or
- (d) Being in incorporated company, correct information as to whether any of its directors was such a retired engineer or a retired officer, or
- (e) Being such a retired engineer or retired officer suppress and not disclose at the time of submitting the said tender the fact of his being such a retired engineer or a retired officer or make at the time of submitting the said tender a wrong statement in relation to his obtaining permission to take the contract or if the contractor be a partnership firm or an incorporated company to be a partner or director of such firm or company as the case may be or to seek employment under the contractor.

Then and in any of the said clause, the Engineer on behalf of 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) 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. 18) should be issued and adopt the following courses:

To measure up or the whole or part of the work from which the contractor has been removed and get it completed by another contractor, the manner and method in which such work is completed shall be in the entire discretion of the Engineer whose decision shall be final.

**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) 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.
- (c) 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 plan 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.

## **STATEMENT OF DISPUTES - INDIAN RAILWAY ARBITRATION RULES**

**63.0 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 Director(PP) /General Manager/GM/Co, DFCCIL and the Director(PP)/General Manager/GM/Co. DFCCIL 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 matter for which provision has been made in clauses 8, 18, 22.(5), 39, 43.(2), 45.(a), 55, 55A.(5), 57, 57A, 61.(1), 61.(2) and 62.(1) to (xiii)(B) of General Conditions of contract or in any special clause of the 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 arbitration clause.

### **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 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)** 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) (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.
- (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.
- (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 thereafter, unless otherwise extension has been granted by Tribunal.
- (d) The place of arbitration would be New Delhi

**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 Railways/DFCCIL that the final bill is ready for payment, he/they will be deemed to have waived his/their claim(s) and the Railways/DFCCIL shall be discharged and released of all liabilities under the contract in respect of these claims.

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

**64. (3) Appointment of arbitrator**

**64.(3)(a)(i)** In cases where the total value of all claims in question added together does not exceed Rs.25,00,000 (Rupees twenty five lakhs only), the Arbitral tribunal shall consist of a sole arbitrator nominated by the MD/DFCCIL. The sole arbitrator shall be appointed within 60 days from the day when a written and valid demand for arbitrator 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 more than 3 names of DFCCIL officers which may also include the name(s) of Officer(s) empanelled 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 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 is from the Accounts department. An officer of selection grade of accounts department shall be considered of equal status to the officers in SA grade of other department of DFCCIL for the purpose of appointment of arbitrator.

- 64.(3)(a)(iii)** 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 MD/DFCCIL 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) (a) (iv)** 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 arbitral Tribunal should record day-to-day proceedings. The proceedings shall normally be conducted on the basis of documents and written statements.
- 64. (3) (a) (v)** While appointing arbitrator(s) under sub-clause (i), (ii) & (iii) above, due care shall be taken that he/they is/are not the one/those who had an opportunity to deal with the matters to which the contract relates or who in the course of his/their duties as DFCCIL servant(s) expressed views on all or any of the matters under dispute or differences. 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) (b) (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 there from.
- 64.(3)(b)(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)(b)(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 the DFCCIL from time to time and the fee shall be borne equally by both the parties.

**64(7)** Subject to the provisions of the aforesaid Arbitration and Conciliation Act 1996 and the rules there under and any statutory modifications thereof shall apply to the arbitration proceedings under this clause.

**65.0 JOINT VENTURE (JV) FIRMS IN WORKS TENDERS**

Joint Venture firms are not eligible

**66. MSME**

Public Procurement Policy for Micro and Small Enterprises (MSEs) is being followed. Participating MSE shall enclose with their offers the proof of their being MSE registered with any of the agencies mentioned in the notification of Ministry of MSME indicated below:

- (i) District Industries Centers.
- (ii) Khadi and Village Industries Commission.
- (iii) Khadi and Village Industries Board.
- (iv) Coir Board.
- (v) National Small Industries Corporation.
- (vi) Directorate of Handicraft and Handloom.
- (vii) Any other body specified by Ministry of MSME.

The MSEs must also indicate the terminal validity date of their registration. MSEs owned by Scheduled Castes or Scheduled Tribes (SC/ST) Entrepreneurs may be indicated and proof of same may be enclosed.



**(SPECIAL CONDITIONS OF CONTRACT)**

## **SPECIAL CONDITIONS OF CONTRACT**

### **1.0 INTRODUCTION**

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

CGM /Ajmer unit have jurisdiction from Madar to Iqbalgadh .

### **Definitions**

In the Conditions of Contract, the following terms shall have the meanings assigned here under except where the context otherwise requires:

- i) "RAILWAY" shall mean the President of the Republic of India or the Administrative Officers of the Railway/DFCCIL or of the successor Railway authorized or any other officer of DFCCIL authorized to deal with any matters which these presents are concerned on his behalf.
- ii) "CHIEF GENERAL MANAGER" shall mean the officer in administrative in-charge of the project in charge of section (New Madar – Iqbalgadh) and shall mean and include their successors, of the successor DFCCIL.
- iii) "DEPUTY CHIEF PROJECT MANAGER " shall mean the officer in charge of lot wise or department /S&T/Electrical/Finance wise (Engineering department) of the DFCCIL include their successors of and shall mean and the successor DFCCIL.
- iv) PROJECT MANAGER/ DEPUTY PROJECT MANAGER/ASSISTANT PROJECT MANAGER shall mean the officer department wise (Engineering /S&T/ Electrical/ Finance Department) of the DFCCIL and shall mean and include their successors of the success of DFCCIL.
- v) "TENDER or BID" means the offer (Technical and/or Financial) made by individual, firm, Company, corporation, or Consortium for the execution of the works.
- vi) "TENDERER" shall mean the person/ the firm or company whether in corporate or not who tenders for the work with a view to execute the works on contract with DFCCIL and shall include their personal representatives, successors and permitted assigns.
- vii) "WORKS" shall mean the works contemplated in scope and schedules set forth in the tender forms and required to be executed according to terms and condition mentioned.
- viii) "Bill of Quantities (B.O.Q.)"/ "Schedule of Rates" means list of items of work, their quantities and rates as accepted and forming part of contract agreement.
- ix) "EMPLOYER" means the Dedicated Freight Corridor Corporation of India Limited, A Govt. of India Undertaking (DFCCIL in abbreviation) acting through its Managing

Director or any other authorized officer and shall include their legal successors in title and permitted assignees.

- xi) “CONTRACT” shall mean and include the Agreement or Letter of Acceptance, the accepted Bill of Quantities and Rates, the General Conditions of Contract, Special Conditions of Contract, Appendix to Tender, Form of Bid, and Instructions to the Tenders and other Tender Documents.
- xii) “CONTRACTOR” shall mean the person or firm, company, corporation, whether incorporated or not who enters into the contract with DFCCIL and shall include legal representatives of such individual or persons comprising such firm or company or successors of such firm or company as the case may be such individual, or firm or company.
- xiii) "ENGINEER OR ENGINEER IN CHARGE" means the Chief General Manager of DFCCIL/ Ajmer (Employer), or any other officer authorized by the Employer to act on his behalf and for the purpose of operating the contract. “Engineers Representative” shall mean officer authorized by DFCCIL in direct charge of works.
- xv) “ACCEPTING AUTHORITY” shall mean the Chief General Manager /Ajmer of DFCCIL or any other officer authorized for dealing with the works for the purpose of this tender/Contract.
- xvi) Definitions mentioned in these tender documents elsewhere will be followed. In Case there is an ambiguity in any definition, the decision of CHIEF GENERAL MANAGER /Ajmer / DFCCIL regarding the interpretation shall be final and binding.

#### **GENERAL DESCRIPTION OF SITE AREA & CLIMATIC CONDITIONS**

The tenderer/s are requested to visit the area of work and ascertain himself/themselves with the proposed works / services, surroundings and prevailing law & order conditions.

**SCOPE OF WORK -**

**Maintenance of 2x25 KV High Rise Overhead equipment along with Power Supply Installation maintenance on Madar-Iqbalgadh section of DFCCIL including IR connecting lines for a period of 12 Months under CGM Ajmer.**

The work requires high degree of planning and execution.

- i. Preventive/breakdown Maintenance of given under assets shall be done by contractor :-
- 2x25 kV A.C. Traction Overhead Equipment on main line, 25kV HIGH RISE OHE in loop lines and IR connecting lines etc. of New Madar – New Iqbalgadh section.
  - 06 nos. TSSs viz. Mangliawas (01 no. traction transformer), Haripur (02 nos. traction transformer), Marwar (01 no. traction transformer), Falna (02 nos. traction transformer), Sirohi road (01 no. traction transformer) and Sriamirgadh (02 nos. traction transformer) in which transformers in Scott connection each of 60(ONAN)/84(ONAF)/100 (OFAP) MVA , of 220kV/55kV, Auto Transformers (8/12.3 MVA) 4 nos. at each TSS along with requisite Circuit Breakers, Isolators, C&R Panel, C.T., P.T., auxiliary transformers and all other associated accessories inside TSS.
  - 06 SP, each having 4 nos. auto transformers of capacity 8.0 MVA ONAN along with associated circuit breaker, switchgear control & relay panel etc. including control room.
  - (i) 08 nos. SSP and 4 ATS each having 2 nos. auto transformers of capacity 8/12.3MVA ONAN along with associated circuit breaker, switchgear control & relay panel etc.  
(ii) 20 nos. SSP type B and B2 modified without auto transformers along with associated circuit breaker, switchgear control & relay panel etc. and 4 nos. of Paralleling post in the section
  - To maintain these, purchaser has established 03 no. IMD (Integrated Maintenance Depot) at New saradhana, New Marwar and New Keshavganj, 08 nos. IMSD (Integrated maintenance sub depot) at New Saradhana, New Bangurgram, New Haripur, New Chandawal, New Jawali, New Biroliya, New Swaroopganj and New Sriamirgadh. The tools and plants maintained by the purchaser at these IMD, IMSD. Other tools if required shall be arranged by the contractor at his own cost and no extra cost shall be payable for it.
  - The consumable material for the maintenance and replacement for the defective parts shall be provided by the purchaser. The material required for the maintenance shall be issued by authorized representative of CGM /Ajmer available at IMD/IMSD. Rest all other required tools and plants for maintenance shall be arranged by contractor.

Organization	Work/location	Quantum of assets to bemaintained.	Boundary of overlap or SI/Isolator feeding from HIGH RISE OHE to be maintained.
DFCCIL	New to New Madar to Iqbalgadh including branch line, connecting lines and siding.	2x25 kV A.C. Traction Overhead Equipment (HIGH RISE OHE) of 125 sq. mm Copper-Magnesium Catenary and 150 sq. mm. grooved Copper-Sn Contact wire on Main & Loop Lines and PSI Equipment (TSS, SP & SSP)	

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

- ii. Special Checks & Preventive maintenance of the 2x25 kV A.C. Traction Overhead Equipment and Power Supply Installation Equipment including negative feeders under Power Block activities but strictly under the supervision of competent representatives of DFCCIL and with their time to time instructions only, in accordance with the Standard Maintenance Instructions issued by the DFCCIL.
- iii. Immediate attention for any breakdown in the 2x25 kV A.C. Traction Overhead Equipment & Power Supply Installation Equipment and quick restoration.
- iv. **Explanatory notes on the schedule items.**  
Explanatory notes are given below for all items given in schedule of prices for the guidance of tenderer.

**: GENERAL :**

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

**PARTICULARS OF SCHEDULE OF ITEMS****Schedule 1: Part A**

<b>Sch.1 Sl. No. 1</b>	Checking & Maintenance of Cantilever assembly
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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 include small parts steelwork and carrying out periodic over hauling work of cantilever along with Zylo testing of non-ferrous parts. However, this does not include the anti creep arrangement at masts / structures.

Price shall also cover erection of new cantilever assembly including Stay & Bracket insulators. Price shall cover measurement and recording of all HIGH RISE OHE parameters, make, Sr.No., batch no. etc. of various HIGH RISE OHE components. Cantilever Maintenance sheets to be signed by both DFCCIL and contract 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.

<b>Sch.1 Sl. No. 2</b>	Checking & Maintenance of 25kV HIGH RISE OHE Conductors
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The Checking and maintenance of 25kV HIGH RISE 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 price shall include checking of 25kV HIGH RISE OHE Masts, Portal structures, Bridge masts, Special masts if any etc, HIGH RISE OHE Conductors for final adjustment & inspection of HIGH RISE OHE stagger, heights of conductors at turnout / crossover, removal of kinks and knots, adjustment of HIGH RISE OHE as per SED. Tower wagon will be provided by DFCCIL.

The price shall include Checking and adjustment of contact wire parallel clamp, contact wire dropper clip, catenary wire dropper clip complete with bolts, nuts etc., catenary ending clamp, large span wire clamp, adjuster, anchor double strap assembly, compensating plate / equalizing plate, caution boards, number plates 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.

<b>Sch.1 Sl.No. 3</b>	Checking & Maintenance of all types of 25kV HIGH RISE OHE Jumpers
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The Checking and maintenance of 25kV HIGH RISE 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 price shall cover checking and maintenance of all types of 25kV HIGH RISE OHE Jumpers including special arrangement at support & terminal fittings for conductors including adjustable and Jumper wires. The price shall cover adjustment of all components including PG clamp and Jumper

wires on the HIGH RISE OHE& shaping etc. Price shall also cover replacement of any jumper assembly complete if required, and no extra payment will be made for this replacement.

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.

<b>Sch.1 Sl.No. 4</b>	Checking & Maintenance of Overlaps (IOL/UIOL)
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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 uninstalled) including overlaps for jumper connections between two sets of overhead equipment conductor at a overlaps or neutral section good length of sweeping 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 crossing, overlaps and neutral section 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 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.

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

The price shall cover 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 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.

<b>Sch.1 Sl.No. 6</b>	Checking & Maintenance of 25kV Isolator (SP/DP) including earthing heel arrangement if any
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The Checking and maintenance of Motorised 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 heel provision if any or earth electrode, including all fastenings at both ends. Inspection of earths pits, watering of all earth pits and recording earth resistance. Earths having resistance of over 10 ohms should be attended to as per the provisions made in maintenance manual of DFCCILs with its latest correction slips if any. The required coke, crushed coal and salt will be supplied by DFCCILs at no cost to the contractor.

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

The 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.

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

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

The 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.

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

The price shall cover checking and maintenance of all components and fittings with fasteners installed in 25kV HIGH RISE 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 Railway and contract representatives.

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.

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

The price shall cover checking and maintenance of all components including the core insulating rod installed section insulator assembly including special arrangement at support & terminal fittings for



conductors including adjustable dropper wire. The price shall cover adjustment of all components including 9 ton insulator on the catenary & leveling of runners etc. Price shall also cover replacement of section insulator assemble complete, if required and no extra payment will be made for this replacement.

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.

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

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

<b>Sch.1 Sl.No.11</b>	Checking & Maintenance of Aerial earth wire, Feeder wire &Feeder Termination / Fixed Anchor Termination.
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The Checking and maintenance of Aerial earth wire, Feeder wire & Feeder Termination / Fixed Anchor Termination by Foot Patrolling shall be carried out in line with Maintenance Manual/Specifications of DFCCILs.

The price shall cover checking and maintenance all materials required for ACSR Aerial earth wire, AAAC feeder wire and the termination of 25KV feeder including Guy rod assembly, appropriate mast anchor fittings, adjuster, strain clamp and end fitting, splices, fasteners and all other components as required. The price shall also cover cleaning of muffing of anchor block of Guy 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 centralized office.

<b>Sch.1 Sl.No.12</b>	Foot patrolling to be carried out along with schedule with one DFCCIL staff.
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The Checking and maintenance of 2x25kV HIGH RISE OHE by Foot Patrolling shall be carried out in line with Maintenance Manual/Specifications of DFCCILs.

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

The 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.

<b>Sch. 1 Sl.No.13</b>	Checking & maintenance of all type of bonds including cleaning of muffs at HIGH RISE OHE mast (Structure/longitudinal/transverse bonds & earth electrode)
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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.

The price shall include cutting, shaping, painting and drilling of the bond and erection of all materials including the bond. The price shall also cover the drilling of the hole to rail for fixing the bond with suitable GI bolts and nuts, washer etc. and provision of PVC insulating sleeve over the portion of bond passing under the tract circuited rail of length 350mm each wherever required. Price also covers cleaning of area of around muff of HIGH RISE OHE/portal by removing the vegetation and condition of structure muff are to be checked once in month & also recasting of damaged muff with white wash. Recasting of new muff, disconnection of structure bond, drilling of hole in mast/portal and reconnection/replacement of bonds wherever the muff height needs to be raised. Price also covers transportation of release bond to the concerned HIGH RISE OHE depot.

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.

<b>Sch.1 Sl.No.14</b>	Removal of & Re erection of bonds of various type during track machine working or Erection of missing/new bonds (Paint etc. supplied by DFC)
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The work shall include the erection of the bond in place of the any missing bond or removal of during track machine working.

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

<b>Sch.1 Sl.No. 15</b>	Checking & Maintenance of all additional insulators
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The Checking and maintenance of this item shall be carried out in line with Maintenance Manual/Approved drawings(As Build Drawings)/Specifications of DFCCILs with its latest correction slips if any as per instruction of DFCCIL representative.

The price shall cover rectification & replacement all additional Insulators (9 Tonne) such as Cut-in-insulator in a head span, cross span or in-span wire or an anti-creep wire not provided for in other items as and when required immediately after receiving the failure message by first available train or by other means.

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.

<b>Sch.1 Sl.No. 16</b>	Checking & Maintenance of leaning of HIGH RISE OHE mast till a new mast erected and erection of new mast if required
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The Checking and maintenance of this item shall be carried out in line with Maintenance Manual/Approved drawings(As Build Drawings)/Specifications of DFCCILs with its latest correction slips if any as per instruction of DFCCIL representative.

The price shall covers checking and maintenance of leaned masts till a new mast is erected. The price shall also covers packing and ramming with pieces of stone and strengthening by pouring cement concrete. Price shall cover for HIGH RISE OHE foundation casting including drilling of hole in mast/portal as per the directives of engineer and after recasting of foundation, muff shall be provided including white wash. A temporary structure or guy as convenient / as per railway requirement to be provided. 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 price includes releasing & reloading of HIGH RISE OHE load from / to the HIGH RISE OHE mast.

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.

<b>Sch.1 Sl.No.17</b>	Checking & Maintenance of PTFE type neutral section (Quarterly)
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The Checking and maintenance of this item shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCILs with its latest correction slips if any as per instruction of DFCCIL representative.

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

The price shall also cover cleaning, 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 centralized office.

<b>Sch.1 Sl.No.18</b>	Checking & Maintenance of Portal boom, drop arms and fabricated Masts free from Bird Nests
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The Checking and maintenance against this item shall be carried out in line with Maintenance Manual/Approved drawings/Specifications of DFCCILs with its latest correction slips if any as per instruction of DFCCIL representative.

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

<b>Sch.1 Sl.No.19</b>	Trimming of tree branches.
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The price shall cover trimming of tree branches as identified by foot patrolling staff / during other inspection / checking. No part of the tree shall be nearer than 4 meters from the nearest live conductor. Requirement of power block will be jointly decided by the contractor and the sectional

DFCCIL supervisor. Necessary power block will be obtained from authorized DFCCIL's representative only for trimming of tree branches. The accountal & disposal of trimmed braches will be the responsibility of DFCCIL department.

<b>Sch.1 Sl.No.20</b>	Manning and housekeeping in the IMD/IMSD
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The manpower shall be provided for proper up-keeping of the HIGH RISE OHE depot. They shall be responsible for stacking of the material in the IMD/IMSD and different kind of works by the staff provided for 8 hours in a day.

<b>Sch.1 Sl.No.21</b>	Erection of 25 kV over head equipment as per requirement
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The Price shall cover erection of 25kV overhead equipment's and fabrication of cantilever assembly of different size & tubes including catenary, contact, dropper, cut in insulator & jumper wires. The price shall also cover erection of all components and wires / conductors including contact wire, catenary wire, cut in insulator droppers, jumpers and terminating wire, if any but excluding small part steel work if any. The price shall also include erection of structure identification plates/number plates with bolt & nut with GI fasteners and also include replacing/attending the damaged /bent/faded plates by the contractor with the cost of cleaning & painting the setting distance of mast or structures.

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

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

#### **Schedule 1: Part B**

<b>Sch.1 Sl.No. 01</b>	Loading, unloading of DFCCIL supplied material to places directed by Engineer in-charge (i.e. From station to tower wagon, station to station etc.)
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Price shall cover loading and unloading activity for transportation of all DFCCIL supplied materials for execution of the work and dismantled materials to consignee's depot. Also safe handling and shifting of DFCCIL materials during the breakdown. Price shall also cover collection of materials from store depot, loading and unloading of materials from depot to site and site to depot.

<b>Sch. 1 Sl.No.02</b>	Erection of Catenary wire splicing or Contact wire splicing.
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The Checking and maintenance against 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.

Price shall cover erection of catenary wire splicing with fasteners to splice existing HIGH RISE OHE with newly laid HIGH RISE OHE and adjustment there of as per requirement.

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.

<b>Sch. 1 Sl.No. 03</b>	Replacement / Re-erection of various types of insulators
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Any insulator found defective or broken shall be replaced under this item. The price shall cover erection of insulators of various types with all components required for the insulators assembly including small parts steel work with bolts & nuts etc. as per the relevant drawing.

<b>Sch. 1 Sl.No.04</b>	Breakdown attention by a gang for restoration of 25 kV HIGH RISE OHE during accidents/ unusual occurrence for checking HIGH RISE OHE parameters- (one gang consisting of 7 staff)
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The price shall cover Supply of Man Power for restoration of 2x25kV HIGH RISE OHE during Break down round the clock on hourly basis for all restoration of 2x25kV HIGH RISE OHE during Break down. 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.

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.

The price against this item is applicable for Supply of Man Power on hourly basis consisting of the above staff in one Gang.

Note: The contractor should deploy additional gangs as per the requirement of DFCCIL for restoration of 2x25kV HIGH RISE OHE during Break down.

<b>Sch. 1 Sl.No. 05</b>	Erection of traction masts & portal other than boom
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The price shall cover the erection of masts or portal other than boom. The price shall be paid on each location basis. 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.

### **Schedule 1: Part C**

<b>Sch. 1 Sl.No. 01</b>	Casting of all types of foundation (The rate includes supply of the material- ballast, sand, cement, mixture & reinforcement etc.)
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There are 2 types of foundation in DFCCIL in which RDSO foundation PCC type and Circular foundation RCC type. The volume of RDSO type foundation is higher than circular type foundations which are reinforced. There will be liberty with the contractor to cast any type of foundation. The applicable volumes and drawings shall be provided in the drawing as part of CSD. In case the contractor opts for circular foundation the required steel for the reinforcement shall be supplied by the DFCCIL.

The RDSO type foundation shall be cast in M-15 grade and the Circular type foundation shall be cast in M-20 grade. 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.

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.

**Schedule 2: Part A**

<b>Sch. 2 Sl.No.1</b>	Monthly Bay Maintenance of Traction Substations
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The Checking and maintenance against 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 centralized office.

<b>Sch. 2 Sl.No.2</b>	Half yearly Bay Maintenance of Traction Substations
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The Checking and maintenance against 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 centralized office.

<b>Sch. 2 Sl.No.3</b>	Yearly Bay Maintenance of Traction Substations
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The Checking and maintenance against 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 centralized office.

<b>Sch. 2 Sl.No.4</b>	Half yearly 25 kV bay Isolator maintenance in Traction Substations
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The Checking and maintenance against 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 centralized office.

<b>Sch. 2 Sl.No.5</b>	Half yearly maintenance of Feeding post gantry TSS and associated equipments
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The Checking and maintenance against 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 centralized office.

<b>Sch. 2 Sl.No.6</b>	Quarterly Maintenance of 25 kV bay equipments other than isolators and maintenance of feeding post CB in TSS
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The Checking and maintenance against 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 centralized office.

<b>Sch. 2 Sl.No.7</b>	Half yearly maintenance of Earthing station in TSS/SP/SSP
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The Checking and maintenance against 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 centralized office.

<b>Sch. 2 Sl.No.8</b>	Monthly panel maintenance in TSS/SP/SSP
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The Checking and maintenance against 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 centralized office.

<b>Sch. 2 Sl.No.9</b>	Fortnightly battery & battery charger maintenance of TSS
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The Checking and maintenance against 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 centralized office.

<b>Sch. 2 Sl.No.10</b>	Quarterly maintenance of CB in SP/SSP As in DFCC CB is installed in place of interrupter/BM
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The Checking and maintenance against 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 centralized office.

<b>Sch. 2 Sl.No.11</b>	Fortnightly maintenance of battery & battery charger and SP/SSP yard cleaning.
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The Checking and maintenance against 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 centralized office.

<b>Sch. 2 Sl.No.12</b>	Half yearly gantry maintenance of SP/SSP
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The Checking and maintenance against 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 centralized office.

<b>Sch. 2 Sl.No.13</b>	Quarterly maintenance of AT (Auxilliary transformer) at TSS/SP/SSP and HIGH RISE OHE at stations & open section
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The Checking and maintenance against 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 centralized office.

### **Schedule 2: Part B**

<b>Sch. 2 Sl.No.14</b>	Maintenance of 25 kV dropout fuse of AT for TSS/SP/SSP and HIGH RISE OHE at stations & open section
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The Checking and maintenance against 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 centralized office.

<b>Sch. 2 Sl.No.15</b>	Breakdown attention of PSI equipment.
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The Checking and maintenance against 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 centralized office.

<b>Sch. 2 Sl.No.16</b>	Removal and re-erection of PSI equipment.
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The Checking and maintenance against 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 centralized office.

### Schedule 2: Part C

<b>Sch. 2 Sl.No.17</b>	Regular House Keeping of TSS.
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The Checking and maintenance against 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.

<b>Sch. 2 Sl.No.18</b>	Manning of TSS
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The manpower shall be provided for proper up-keeping of the TSS. They shall be responsible for stacking of the material in the TSS and different kind of works by the staff provided for 8 hours in a day.

### Schedule 2: Part D

<b>Sch. 2 Sl.No.19</b>	Transformer oil Testing
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The Checking and maintenance against 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 original report will be submitted by

**The detailed scope of work 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 themasts 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)**

- I. 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.
- II. The engaged staff on foot-patrol should be equipped with signal flags, an emergency telephone instrument and essential tools required for attending to defects on the spot e.g., spanners for tightening bond connections.
- III. The staff/labour on patrol duty should particularly look for the following:
  - (a) 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 and position of with counterweight reference to upper and lower limits of movement marked on the mast.
  - (f) Presence of protective screens, caution and warning boards and ant climbing devices.
  - (g) Structural soundness of height gauges at level crossings.
  - (h) Bird-nests and pieces of stray wire likely to cause short circuits and branches of trees likely to infringe the HIGH RISE OHE;
  - (i) Defective bonds and earth connections;
  - (j) Any obstructions including tree branches in the way of free movement of pantograph and trains;
  - (j) Signs of heavy sparking when trains pass;
  - (k) Isolators blades being fully in and for signs of sparking or overheating of isolators also condition of locks;
  - (l) General condition of switching stations en-route;
  - (m) Tilting of masts especially on high banks and masts with sand-core foundations;
  - (n) Number plates.
  - (o) Any other abnormal/unusual situation.
  - (p) 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. Rusty portions, after cleaning must be given two coats of Zinc chromate primer followed by Aluminum paint.

#### **Maintenance Schedule of Power Supply Installations(PSI):-**

Normally all Maintenance Schedule should be followed as per DFCCIL Maintenance Manual for all type of Transformers, Circuit Breakers, Isolators, CT, PT etc. PSI equipments of different voltage levels in TSS, SP, SSP and ATS etc.

#### **FORTNIGHTLYSCHEDULE:-**

##### **a. Battery & Battery Charger (As per DFCC Maintenance Manual)**

Sl. No.	Item	Inspection And Work to be Carried Out	Remarks
1	Specific gravity	Check & record the specific gravity of each cell. At 27°C, 1210 in charged condition and 1150 means discharged condition.	
2	Distilled Water	Check the level of electrolyte of the cells. Top up to the maximum mark, if required.	
3	Temperature	Check & record the temperature of each cell.	
4	Sulphation	Check & connectors required. clean and Sulphation on apply petroleum terminal jelly, if any	
5	Condition of Plate	Check & clean physical condition such as cracks, distortions and accumulation of whitish deposit on +ve plates. Replace cell, if required.	
6.	Cell voltage	Check & record the voltage of each cell, it should be in the range of 2.0V to 2.2V.	
7	Total voltage	Check & record the total voltage of battery, it should not be less than 110 Volts.	

8.	Vent plugs	Check for clear passage of gases. If hole is blocked, clean it.	
9	Sedimentation and any internal damage	Check the cells for undue sedimentation and any internal damage. If observed, clean it. If damage can not be attended, replace the cell.	
10	Inter cell connections	Check & clean with dry cloth. Replace defective nuts, bolts & washers.	
11	Battery charger	Check smooth operation of all switches of battery charger. Note the charging rate and AC & DC voltage.	
12	Battery room	Clean the room and ensure proper ventilation.	
13	Miscellaneous, if any.		

**MONTHLY SCHEDULE :-****i. General Works on TSS,SSP &SP (As per DFCC Maintenance Manual)**

Sl. No.	Item	Inspection And Work to be Carried Out	Remarks
1.	General cleanliness	Check surface of the roadway, proper drainage, rail access and pathways in the substation. Roadway and pathway should be firm and sufficiently elevated to prevent water-logging and proper drainage.	
2.	Vegetation	Check & clean vegetation near and around equipment in yard.	
3.	Tree and branches	Check & trim tree branches likely to come in the vicinity of live lines.	
4.	Caution, dangerboard, shock treatment chart and other boards	Check & clean the boards for damages, availability and well secured, replace if any damage is observed.	
5.	Fire extinguishers, fire buckets and first aid Box	Check for expiry of fire extinguisher and first aid box and refill with necessary medicines. Fill up/replace sand in fire buckets, if required.	
6.	Structure and plant foundations	Check for any sinking or cracking and go round the structural work for checking tightness of various bolts and nuts.	
7.	All indication lamps on control panels	Check loose connections, fuse indication etc. Tighten the same and replace the fuse, if required.	
8.	State electricity board meter readings	Check & record meter reading, MD, variation in voltage, frequency and power factor and important data parameters.	

9.	All jumpers & other connections	Check visually for flash/spark marks on jumper, nuts & bolts. Tighten the respective bi-metallic clamp/connections. Replace, if required.	
10	Discharge Rod	Check for cable strands broken and damages. If strands 20% broken, replace the cable.	
11	Miscellaneous, if any.		

**ii. Power transformer (Scott Connected ) (As per DFCC Maintenance Manual)**

Sl. No.	Item	Inspection And Work to be Carried Out	Remarks
1.	Maximum temperature of transformer oil on dial indicator	Check and compare it with the previous values. Abnormal change in the temperature should be further investigated and reset indicator.	
2.	Maximum temperature of transformer winding on Dial indicator	Check and compare it with the previous values. Abnormal change in the temperature should be further investigated and reset indicator	
3.	Oil level in conservator (MOLOG)	Check as per transformer oil temperature indication. If low, top up with the filtered oil.	
4.	Buchholz Relay	Check for gas collection. In case gas is collected, the DGA test of oil must be carried out.	DGA report must be examined for any abnormality
5.	Oil level in Oil Immigrated Paper (OIP) condenser bushing	Check for oil level with reference to the oil level indicator:- <ul style="list-style-type: none"> <li>In case of sealed bushing, if no oil./less than minimum level indication. Measure Tan-Delta &amp; capacitance and compare the test values recorded earlier.</li> <li>In case of oil filled bushing, if any leakage is observed, the same shall be attended.</li> </ul>	Max Allowable tan-Delta- 0.007 and capacitance is 110% of the factory set value respectively or as per OEM manuals.
6.	Tap changer	Check & record the position of tap changer in standby and service transformer.	
7.	Tank, radiators, conservator, Bushing, Oil level indicator, gauges	Check & clean dirt deposits, leakage and crack. If crack/leakage is observed, replace/attend it.	

8.	Dehydrating breather	<ul style="list-style-type: none"> <li>Check breather for choking due to insect/dirt. If breather is choked, remove the dirt etc.</li> <li>Check the intactness of gasket and color of silica gel. If gasket is damaged and silica gel is pink, replace the same with new gasket and dry silica gel or recondition the old silica gel. If silica gel is too wet, check the BDV of transformer oil.</li> <li>Check oil level in oil cup. Fill up oil in cup, if required.</li> </ul>	If BDV is less than 50 kV, filter the oil till it reaches 50 kV.
9.	Heater in marshalling box	Check for proper functioning. In case not working, the connection should be checked and rectified.	
10.	Sound	Check abnormal humming, observe and arrest the humming sound.	Find out the reason
11.	All external connection	Check visually that all connections are normal without any discoloration due to local heating. In case of any sign of heating, clean and tighten the bolts and nuts.	
12	NIFPS	Visually Check for any abnormality. In the Nitrogen Injection Fire Protection System (NIFPS).	
13.	Miscellaneous, if any.		

iii. **Auto Transformer ( 12.3/8 MVA):-**  
(As per DFCC Maintenance Manual)

Sl. No.	Item	Inspection And Work to be Carried Out	Remarks
1.	Maximum temperature of transformer oil on dial indicator	Check and compare it with the previous values. Abnormal change in the temperature should be further investigated and reset indicator	
2.	Maximum temperature of transformer winding on Dial indicator	Check and compare it with the previous values. Abnormal change in the temperature should be further investigated and reset indicator	
3.	Oil level in conservator (MOLOG)	Check as per transformer oil temperature indication. If low, top up with the filtered oil	
4.	Buchholz Relay	Check for gas collection. In case gas is collected, the DGA test of oil must be carried out.	DGA report must be examined for any abnormality.



5.	Oil level in Oil Immigrated Paper (OIP) condenser bushing	<p>Check for oil level with reference to the oil level indicator:-</p> <ul style="list-style-type: none"> <li>• In case of sealed bushing, if no oil./less than minimum level indication. Measure Tan-Delta &amp; capacitance and compare the test values recorded earlier.</li> <li>• In case of oil filled bushing, if any leakage is observed, the same shall be attended.</li> </ul>	Max.allowable tan-Delta-0.007 and capacitance is 110% of the factory set value respectively or as per OEM manual.
6.	Tank, radiators, conservator, Bushing, Oil level indicator, gauges	Check & clean dirt deposits, leakage and crack. If crack/leakage is observed, replace/attend it.	
7.	Dehydrating breather	<ul style="list-style-type: none"> <li>• Check breather for choking due to insect/dirt. If breather is choked, remove the dirt etc.</li> <li>• Check the intactness of gasket and color of silica gel. If gasket is damaged and silica gel is pink, replace the same with new gasket and dry silica gel or recondition the old silica gel. If silica gel is too wet, check the BDV of transformer oil.</li> <li>• Check oil level in the oil cup. Fill up oil in cup, if required.</li> </ul>	If BDV is less than 50 kV, filter the oil till it reaches 50 kV.
8.	Heater in Marshalling box	Check for proper functioning. In case not working, the connection should be checked and rectified.	
9.	Sound	Check abnormal humming, observe and arrest the humming sound.	Find out the reason
10.	All external connection	Check visually that all connections are normal without any discoloration due to local heating. In case of any sign of heating, clean and tighten the bolts and nuts.	
11	NIFPS	Visually Check for any abnormality in Nitrogen Injection Fire Protection System (NIFPS).	
12	Miscellaneous, if any.		

iv. **220/132 KV Triple Pole /66 kV DP SF-6 Circuit Breaker:- ( As per DFCC Maintenance Manual)**

Sl. No.	Item	Inspection And Work to be Carried Out	Remarks
1.	Surface of Porcelain pole insulator unit	Check for damages, flash mark, chipping of insulator. Replace, if required. Clean with dry cotton cloth for dirtiness.	
2.	Counter reading	Check operation of counter and record counter reading of Circuit Breaker: - Before maintenance - After maintenance	
3.	Gas pressure	Check& record gas pressure With temperature	7.0Kg/cm sq. at 20°C temp or as per OEM manual.
4.	Mechanism box	Open the cover, check & clean mechanism box for condensation rain water, gasket of door, dust and hinges. Arrest the reason and attend it.	Clean & apply weather sealant material as per OEM manual.
5.	Heater, thermostat & lamp	Check function of heater, thermostat & lamp. If any defect, attend it.	Working & setting of thermostat is 25 – 30 <sup>0</sup> C
6.	Control circuit	Record operating voltage, check control circuit wiring and all connections should have proper lugs and ferule number in terminal box.	
7.	Local/Remote switch Operation	Check the operation of breaker on local and remote switch. Breaker should have open & close on selected position.	
8.	Local and Remote switch	Check the function of local and remote switch.	
9.	Position of Indicator	Check the proper alignment of breaker operation indicator with its position.	
10.	Shock observer	Check the oil leakage from shock absorber. Repair or replace, if necessary.	
11.	Limit switch & auxiliary contact	Check & clean the function of auxiliary limit switch, auxiliary contact and connection for tightness.	
12.	Condenser tripping device, if provided	Check the function of CTD for proper operation. If defective, attend the same.	
13.	Anti pumping device for CB	Check the function of APD for proper operation. If defective, attend the same.	
14.	Interlocking	Check the proper interlocking with isolator.	
15.	Miscellaneous, if any.		

v. **25 kV Double Pole /Single Pole Vacuum Circuit Breaker:-**

(As per DFCC Maintenance Manual)

Sl. No.	Item	Inspection And Work to be Carried Out	Remarks
1.	Surface of porcelain pole insulator unit	Check for damages, flash mark, chipping of insulator. Replace, if required. Clean with dry cotton cloth for dirtiness.	
2.	Magnetic actuator operating mechanism and Drive link assembly, if applicable	Check presence of dust, looseness of bolts and distortion in the operating mechanism. Clean the same with dry cloth tighten the bolts and investigate the problem in mechanism & rectify.	
3.	Counter reading	Check operation of counter and record counter reading of CB: - Before maintenance - After maintenance	
4.	Mechanism box	Open the cover, check & clean mechanism box for condensation rain water, gasket of door, dust and hinges. Arrest the reason and attend it.	Clean & apply weather sealant material as per OEM manual.
5.	Heater, thermostat & lamp	Check function of heater, thermostat & lamp.	
		If any defect, attend it.	
6.	Position of indicator	Check alignment and missing indicator	
7.	Control circuit	Record operating voltage, check control circuit wiring and all connections should have proper lugs and ferule number in terminal box.	
8.	Tripping mechanism	Check & correct operation of tripping Mechanism.	
9.	Shaft of pole assembly	Check visibility of red band on shaft of the pole assembly.	
10.	Auxiliary circuits	Check the connections & function of auxiliary control circuit.	
11.	Local/Remote switch operation	Check the operation of breaker on local and remote switch. Breaker should have open & close on selected position.	
12.	Connections	Check loose/overheating connections. Tight, if found loose.	
13.	Earth connections & foundation bolts	Check & tight the earth connections & foundation bolts.	

14.	Condenser tripping device for CB, if provided.	Check the function of CTD for proper operation. If defective, attend the same.	
15.	Anti pumping device for CB	Check the function of APD for proper operation. If defective, attend the same.	
16.	Interlocking	Check the proper interlocking with isolator.	
17.	Miscellaneous, if any.		

vi. **220 KV TRIPLE POLE / 66 kV DP ISOLATOR in TSS :-**(As per DFCC Maintenance Manual)

Sl. No.	Item	Inspection And Work to be Carried Out	Remarks
1.	Isolator	Check visually the conditions of the support insulator. If observe any abnormality, attend it.	
2.	Mechanism & earthing	Check & clean mechanism, ensure proper operation, tightness of earthing connection and lubricate the moving parts.	
3.	Operation of Isolator	Check operation of isolator for correct adjustment of blade and smooth hand operation.	
4.	Interlock	Check working of interlock without obstruction.	
5.	Earthing connections	Check & tight earthing of the frame with its fittings. Check tightness and condition of lead of earthing heel, if provided.	
6.	D C Motor	Check the working of DC Motor	
7.	Miscellaneous, if any.		

vii. **220 KV Triple Pole Motorized Bus Coupler in TSS :-**

(As per DFCC Maintenance Manual)

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Motorized Bus Coupler	Check visually the conditions of the support insulator. In case of any abnormality, attend it.	
2.	Mechanism	Check & clean mechanism, ensure proper operation, tightness of earthing connection and lubricate the moving parts.	
3.	Operation of Bus Coupler	Check operation of isolator for correct adjustment of blade and smooth hand operation.	
4.	Interlock	Check working of interlock without obstruction.	
5.	D C Motor	Check the working of DC Motor	
5.	Miscellaneous, if any.		

viii. **25 kV DOUBLE POLE MOTORIZED / MANUAL ISOLATOR:-**  
(As per DFCC Maintenance Manual)

SN	Item	Inspection And Work to be Carried Out	Remarks
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1.	Main contacts	Check overheating and clean main contacts and lightly wipe with petroleum jelly	
2.	Small parts	Check all nuts, bolts, split pins for good condition. Replace if rusted or defective.	
3.	Simultaneous operation of blades(double pole)	Check the simultaneous operation of blades for correct alignment. In case of any variation, adjust it.	
4.	Locking arrangement	Check the condition of locking arrangements to the operating handle and provision of padlocks.	
5.	Arcing horn, if provided	Check arcing horn for correct alignment & working, if provided.	
6.	Earthing of operating handle	Check earthing of operating handle with copper flexible wire.	
7.	D C Motor	Check the working of DC Motor	
8.	Miscellaneous, if any.		

**ix. 220/132kV/66/25kV Current Transformer :-(As per DFCC Maintenance Manual)**

**Type- Single phase, oil filled natural air cooled**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Surface of porcelain pole insulator unit	Check damages, flash mark, chipping of insulators. Replace, if required. Clean with dry cotton cloth for dirtiness.	
2.	Terminal connectors	Check overheated/rusted terminal connectors. Replace, if any sign of overheating/rusted	
3.	Terminal bolts, Nuts & washers	Check tightness of terminal bolts, nuts & washers. Replace, if any sign of rusting/oxidation.	
4.	Oil level	Check Oil level for leakage. Top up oil, if required and arrest the leakage.	
5.	Earthing connections	Check & tight the earth connections, if founds loose.	
6.	Arching horn, if provided	Check flash mark on horn tips	

**x. 220kV/198 kV, 132 kV/120 kV & 42 kV/25 kV Lightning Arrester:-  
(As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Visual inspection of lightning Arrestor	Check sign of overheating. If observed, find out the reason and attend it.	
2.	Surface of porcelain pole insulator unit	Check damages, flash mark, chipping of insulators. Replace, if required. Clean with dry cotton cloth for dirtiness.	
3.	Lightning counter, if provided	Check & record the number of discharges of lightning counter, if meter is provided.	
4.	Miscellaneous, if any.		

**xi. BATTERY CHARGER:-****(As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remark
1.	Carry out following work in addition to fortnightly schedule		
2.	Charger	Check & clean the charger outside and inside with dry cloth	
3.	Voltmeter & Ammeter	Check the proper function of voltmeter & ammeter.	
4.	Overheating	Check any sign of overheating inside the charger. Find out the reason and attend it.	
5.	Miscellaneous, if any.		

**xii. CONTROL AND RELAY PANEL:-****(As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Cleaning of panel	Check and clean accumulated dust externally & internally with dry cloth	
2.	Indicating and recording instrument	Check all indicating and recording instrument are working normally	
3.	Relay	Check & clean outer terminals of relay for any abnormality	
4.	Cable connections	Check & tighten all cable connections, if found loose	
5.	Terminal board	Check & clean terminal board, cable damage and cable leads with dry cotton cloth and attend the damage cable	
6.	Fuses	Check all fuses for proper rating & overheating, replace if necessary	
7.	Earthing connections	Check & tight the earth connections. If founds loose.	
8.	Doors	Check doors & hinges for intactness	
9.	Holes in Panel	Check & plug the holes to avoid entry of moisture and insects.	
10.	Miscellaneous, if any.		

**QUARTERLY SCHEDULE:-****1. General Works on TSS, SSP & SP:- (As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remark
1.	Carry out following work in addition to monthly schedule		
2.	Bus bar, clamps & connectors by thermovision camera	Check nut, bolt & washers for overheating. Replace, if necessary.	

**2. Auxiliary Transformer 25 kV/240 V (10 KVA, 25 KVA, 50 KVA & 100 KVA:-(As per DFCC Maintenance Manual)**

**Type-Double wound, single phase, oil immersed natural air cooled and step down transformer for outdoor installation**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Visual inspection of transformer	Check any sign of oil leakage, overheating. If observed, attend it.	
2.	Cleaning of transformer	Clean the transformer, conservator, bushing and tank externally with clean cotton cloth.	
3.	Silica gel	<ul style="list-style-type: none"> <li>Check the condition of silica gel. If color is pink reactivate/replace.</li> <li>Check oil in the cup of breather. Top up the oil in cup, if required.</li> </ul>	
4.	Connection	Check, clean & tight all connections of HT and LT bushing terminals.	
5.	Oil level in conservator	Check & top up oil level in conservator with new filtered oil up to mark, if required.	
6.	AT enclosure	Check & clean AT enclosure for vegetation and other materials.	
7.	Condition of pole mounted ICDP(MCCB) switch, control panel and its fuses	Check condition of pole mounted ICDP (MCCB) switch, control panel and its fuses. Replace overheated lugs, fuses and tighten loose connections. Note: Use fuse wire 20 SWG for 34 Amp, 22 SWG for 24 Amp	
8.	Caution board And anti-climbing device	Check caution board and anti-climbing device for availability and proper condition.	
9.	Earthing connections	Check & tight the earth connections, if found loose.	
10.	Arcing horn HV busing	Check flash mark on arcing horn. Attend, if flashover marks observed & check the arcing horn gap.	Attend
11.	Drop out (DO) fuse	Check the condition of DO fuse barrel and fuse element. Replace the breakage, over heated and non-standard fuse wire, if any.	
12.	Miscellaneous, if any.		

**3. 220 kV, 132 kV, 66kV & 25 kV Potential Transformer:-  
(As per DFCCIL Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Inspection of PT	Check oil leakage, chip or insulator broken and any sign of overheating. If observed, attend it.	
2.	Terminal	Check any overheating of terminals. Replace, if found overheated.	

3.	Terminal bolts. Nuts & washers	Check & replace terminal bolts, nuts & washers, if any sign of rusting/oxidation is found.	
4.	Oil level	Check the oil level in PT & top up with new oil up to mark, if required & measure BDV of oil.	BDV of oil More than 40KV
5.	Fuse	Check fuse and neutral link for proper rating and tightness. Replace the fuse, if necessary	
6.	Earthing connections	Check & tight the earth connections, if found loose.	
7.	Miscellaneous, if any.		

**4. 25 kV Motorized Isolator Type– Double Pole:-**  
(As per DFCC Maintenance Manual)

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly schedule		
2.	Door gasket and hinges	Check weather proof gasket and hinges for good condition. Replace/repair, if damaged.	
3.	Manual operation	Check the operation manually in local and remote, keeping the control door open. Observe whether the mechanism and operating rod functions smoothly without any rubbing or obstruction.	
4.	Electrical operation	Check the operation electrically in local and remote, keeping the control door open. Observe whether the mechanism and operating rod functions smoothly without any rubbing or obstruction.	
5.	Wiring connection	Check & tight wiring connections for loose, overheating or any defect.	
6.	Relays and contactors	Check & clean healthiness of relays, contactors and its contacts.	
7.	Heater	Check working condition of heater, if defective, attend it.	
8.	Grease and lubrication	Check & clean and apply grease and lubricate in all moving parts.	
9.	Earthing connections	Check & tight the earth connections, if found loose.	
10.	Locking arrangement	Check working of locking arrangement, for Smooth functioning.	
11.	Miscellaneous, if any.		

**5. 220 kV/198 kV, 132 kV/120 kV & 42 kV/25 kV Lightning Arrester:-**  
(As per DFCC Maintenance Manual)

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly schedule		



2.	Earthing Terminal & earthing strip	Check & tight earthing terminal strip, tighten if loose.	
3.	Guarding ring, if provided	Check guarding ring, connections, tighten, if loose	

**6. Battery Charger:-(As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly schedule		
2.	Terminal connection	Check the terminal connection on the disconnecting link. Replace any overheating of terminal connectors, if found overheated or rusted.	
3.	Earth terminals	Check & tight the earth connections, if found loose.	
4.	MCB	Check visually for proper functioning and rating.	
5.	Three pin plug with socket	Check & replace overheating or defective three pin plug/socket.	
6.	Termination ends of the cable	Check & tight all termination ends of the cable, if loose.	
7.	Miscellaneous, if any.		

**7. AC /DC Distribution Panel:-(As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Distribution Panel	Check & clean the panel outside and inside with dry cloth.	
2.	Voltmeter	Check function of voltmeter	
3.	Earth terminals	Check & tight earth termination points on both ends. Attend, if any deficiency observed.	
4.	MCB	Check visually for proper functioning and rating	
5.	Temperature at termination points	Measure & record the temperature at termination points. If variation is more than 5 deg. With room temp, ensure the tightness.	
6.	LED	Check & replace the defective LED with tested LED.	
7.	Fuses	Check all fuses for proper rating & overheating, replace, if necessary	
8.	Holes in panel	Check & plug the holes to avoid entry of moisture and insects	
9.	Miscellaneous, if any.		

**HALE YEARLY SCHEDULE:-**

**a. General Works on TSS, SSP & SP :-(As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly and quarterly schedule		
2.	Fencing	Inspect all around switching station to observe any abnormality. If seen, attend the same.	
3.	Door and bonding between metal fencing panels and earth	Check hinges of all doors and bonding between metal fencing panels and earth, lubricant the hinges of all doors. If bonding deficient in metal fencing panels and earth, attend it.	
4.	Boards	Check and ensure proper painting of all caution, danger board, shock treatment board, schematic diagram, key box and other boards, if faded. Replace or repaint again by enamel paint	
5.	Fire extinguisher, buckets, first aid boxes	Inspect expiry date of fire extinguisher, fill buckets with sand, Refill first aid boxes with necessary medicine with valid date of expiry.	
6.	Oil sump, if Available	Check & clean oil sump for dirtiness	
7.	Miscellaneous, if any.		

**b. Traction Power Transformer (Scott Connected):-**

(As per DFCC Maintenance Manual)

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly schedule		
2.	Test oil sample with oil test kit	Test for BDV and acidity. Compare and take action.	
3.	Insulation resistance of Winding and polarization. Index (PI) with 2.5kV or 5kV megger for HV-L HV-E LV-E.	<p>Insulation resistance is to be measured for 10sec.,60sec.and600sec.forHV-LV, HV-E and LV-E. Calculate PI (Polarization index)</p> <ul style="list-style-type: none"> <li>Insulation resistance values should be compared with the last recorded value.</li> <li>Compare PI values with values at the time of commissioning/ last recorded.</li> <li>PI Insulation/condition <ul style="list-style-type: none"> <li>&lt; 1.0Dangerous</li> <li>Poor</li> <li>1.25Questionable</li> <li>1.25 - 2.0Satisfactory</li> <li>&gt;2.0Good</li> </ul> </li> <li>If PI value is less than 1.1, oil should be filtered. In case the value does not improve even after filtrations, periodic overhauling should be under taken.</li> </ul>	<p>Ensure that transformer is disconnected.</p> <p>Ensure bushing are clean and free from Moisture and temperature on which IR value is recorded.</p> <p>The OEM's manual may also be referred.</p>
4.	PRD/explosion vent	Check & investigate for operation of PRD/explosion vent for any damage and presence of oil. Check connection and operation of PRD/explosion vent. Replace the damaged PRD with new PRD, if required.	
5.	Miscellaneous, if any.		

**c. Auto Transformer (12.3/8 MVA):- (As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly schedule		
2.	Test oil sample with oil test kit	Test for BDV and acidity. Compare and take action as indicated in enclosed ANNEXURE-1	
3.	Insulation resistance of Winding and polarization. Index (PI) with 2.5kV Or 5kV megger for HV-L HV-E LV-E.	<p>Insulation resistance is to be measured for 10sec.,60sec.and600sec.forHV-LV, HV-E and LV-E. Calculate PI (Polarization index)</p> <ul style="list-style-type: none"> <li>Insulation resistance values should be compared with the last recorded value.</li> <li>Compare PI values with values at the time of commissioning/ last recorded.</li> <li>PI Insulation/condition <ul style="list-style-type: none"> <li>&lt; 1.0Dangerous</li> <li>Poor</li> <li>1.25Questionable</li> <li>1.25 - 2.0Satisfactory</li> <li>&gt;2.0Good</li> </ul> </li> <li>If PI value is less than 1.1, oil should be filtered. In case the value does not improve even after filtrations, periodic overhauling should be under taken.</li> </ul>	<p>Ensure that transformer is disconnected. Ensure busing are clean and free from moisture and temperature on which IR value is recorded</p> <p>The OEM's manual may also be referred.</p>
4.	PRD/explosion vent	Check & investigate for operation of PRD/explosion vent for any damage and presence of oil. Check connection and operation of PRD/explosion vent. Replace the damage PRD with new PRD, if required.	
5.	Miscellaneous, if any.		

**d. 25kV Double Pole /Single Pole Vacuum Circuit Breaker:- (As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly schedule		
2.	All the moving part of the mechanism	Check, clean & lubricate the gear, bearing cum shaft rollers and latches	Lubricate as per annexure 'VI'
3.	All cir clip, split clip and dowel pin	Check for availability and damages. Replace, if any damages.	
4.	Spring stroke	Measure & record spring stroke contact pressure.	Minimum 4 mm and max 5 mm.
5.	Contact wear indication	Check contact wear mark. If green indication is not visible under the bottle, then contacts may be worn off.	Change bottle or contact manufacturer/OE M

6.	Insulation Resistance of pole unit (when breaker in open position)	Check & record IR value of pole unit as per OEM: i. Top-Bottom ii. Top-Earth iii. Bottom-Earth Check with 2.5/5.0 KV megger.	More than 5000 MΩ
7.	Insulation Resistance of pole unit (when breaker in open position)	Check & record continuity & IR value of pole unit as per OEM: i. Top-Bottom- for continuity ii. Top & Bottom-Earth Check with multimeter & 2.5/5 KV megger.	IR More than 5000 MΩ
8.	Insulation Resistance of i. Motor ii. Closing coil iii. Tripping coil iv. AC&DC wiring	Check & record IR value of: i. Motor ii. Closing coil iii. Tripping coil iv. AC wiring & DC wiring Check with 500 V megger	i. Motor- more than 2MΩ ii. Closing coil- More than 2 MΩ iii. Tripping coil- More than 2 MΩ iv. AC wiring & DC wiring more than 2 MΩ
9.	Motor, if applicable	Check carbon brushes & clean commutator. Replace carbon brushes, if worn out.	
10.	Top cover	Check sealing of top cover for Any Moisture trapping.	
11.	Wipe & travel measurement	Measure & record the wipe & travel measurement as per OEM manual.	

**e. 220/132kV Triple 66 kV/DP Pole SF-6 Circuit Breaker:-  
(As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly schedule		
2.	All the moving part of the Mechanism	Check, clean & lubricate the gear, bearing cum shaft rollers and latches	Lubricate as per annexure 'III'
3.	Insulation Resistance of pole unit (when breaker in open position)	Check & record IR value of pole unit i. Top-Bottom ii. Top-Earth iii. Bottom-Earth Check with 2.5/5.0 KV megger.	IR More than 1500 MΩ
4.	Insulation Resistance of pole unit (when breaker in open position)	Check & record continuity & IR value of pole unit as per OEM: iii. Top-Bottom- for continuity iv. Top & Bottom-Earth Check with multi meter & 2.5/5.0 KV megger.	IR More than 1500 MΩ

5.	Insulation Resistance between control circuit to ground	Measure & record the Insulation Resistance between control circuits to ground by 500 V megger	IR More than 2 MΩ
6.	Closing/Trip coil	Check & record closing coil parameter: i. Voltage ii. Resistance iii. IR values Check with measuring instrument (megger & multi meter)	i. Voltage 110V DC+/-10% ii. Resistance 32 Ohm iii. IR value more than 2MΩ
7.	Mechanism box	Check penetration of rain water, rust and door hinges. Arrest the reason and rectify.	Weather sealant as per annexure 'V'
8.	Main terminal connector	Check overheated & rusted nuts, bolts, washers and bi-metallic strips. Replace, if required.	
9.	Shock observer	Check for oil leakage, if leakages attend it.	
10.	Charging time of closing spring	Check and record charging time of closing Spring	15 sec. or as per OEM manual.
11.	Miscellaneous, if any.		

In case of any variation in measured value of above parameters, OEM's manual for above parameter may be referred to.

**f. Auxiliary Transformer:- (As per DFCC Maintenance Manual)**

**TYPE**-Double wound, single phase, oil immersed natural air cooled and step down transformer for outdoor installation

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to quarterly schedule		
2.	BDV oil	Take sample of oil from bottom of tank and check the BDV of oil with BDV tester.	BDV more than 30 kV (with 2.5 mm spindle gap)
3.	Additional arching horn on fixed 9-ton insulator	Check for any flash mark on arching horn and measure the gap of arching horns.	Maintain gap 165 mm (min) & record.
4.	Measure & record the Insulation Resistance between		
(i)	HV-Earth	200 M ohm. Minimum (use 2.5 KV megger)	
(ii)	HV-LV	200 M ohm. Minimum (use 2.5 KV megger)	
(iii)	LV-Earth	2 M ohm. Minimum (use 500 KV megger)	
5.	Earth resistance	Check earth connections, measure & record the earth resistance by earth tester.	Not more than 10ohm.
6.	LT cable	Check & replace damage, overheating of wires, lugs etc. of LT cable. Measure & record IR value of cable: i. Between AT to IC DP(MCCB)switch. ii. Between ICDP (MCCB) switch to control panel by 500 V megger.	2 M ohm min. at 30 <sup>0</sup> Temperature.
7.	Miscellaneous, if any.		

**h) 220 kV/132 kV/25 kV Potential Transformer**  
**(As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to quarterly schedule		
2.	Measure Insulation Resistance between		
(i)	HV-Earth, if Possible	200 M ohm. Minimum (use 2.5 KV megger)	
(ii)	HV-LV	200 M ohm. Minimum (use 2.5 KV megger)	
(iii)	LV-Earth	2 M ohm. Minimum (use 500 KV megger)	
3.	Rod gap, if Provided	Check & record rod gap setting	
4.	Miscellaneous, if any.		

**i) 220/132/66 kV & 25 kV Current Transformer**  
**(As per DFCC Maintenance Manual)**

**Type-** Single phase, oil filled natural air cooled.

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly schedule		
2.	Earth link	Check & tight earth link in secondary box.	
3.	Measure Insulation Resistance between:		
(i)	HV-Earth	i. 2000MΩmin.for220/132kV(use2.5kVmegger) ii. 200 MΩ min. for 25 kV (use 2.5 kV megger)	
	HV-LV	i. 2000 MΩ min. for 220/132 kV (use 2.5 kV megger) ii. 200 MΩ min. for 25 kV (use 2.5 kV megger)	
	LV-Earth	i. 200MΩMin.for220/132kV(use 2.5kV megger) ii. 2 MΩ min. for 25 kV (use 500 V megger)	
4.	Fuses	Check fuse for proper rating & overheating, replace, if necessary.	
5.	Arching horn, if provided	Check arching horn for flash mark and measure the gap of arching horns.	
6.	Miscellaneous, if any.		

**j) 220/132 kV Triple Pole 66 kV DP Isolator:-**  
**(As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly schedule		
2.	Small parts	Check all nuts, bolts, split pins for good condition. Replace, if rusted or defective.	
3.	Jaws	Check the spring of jaws for proper gripping	

4.	Main contacts	Check overheating and clean main contacts and lightly wipe with petroleum jelly.	
5.	Articulated joints, sliding and bearing Surface	Check & clean all articulated joints, sliding and bearing surface with kerosene oil and lubricate.	
6.	Interlock	Check interlock operation and lubricate all moving parts.	
7.	Arching horn, if provided	Check arching horn for flash mark and measure the gap of arching horns.	
8.	HV connections	Check & tight HV connections for overheating/ rusting. Replace, if required	
9.	Earthing of operating Handle	Check earthing of operating handle with copper flexible wire.	
10.	Miscellaneous, if any.		

**k) 25 KV Double Pole /SP Motorized Isolator (As per DFCC Maintenance Manual)**

S N	Item	Inspection And Work to be Carried Out	Remark
1.	Carry out following work in addition to quarterly schedule		
2.	Clearance of blades in open condition	Check, measure & record the distance between male and female contacts in fully open position.	Minimum 500mm
3.	Electrical operation	Check the isolator for smooth operation and correct alignment of male and female contacts.	
4.	Alignment of isolator	Check the correct alignment of isolator for its firm grip, while isolator is in closed condition.	
5.	Blade tips and contact fingers	Check blade tips for overheating and contact fingers and apply petroleum jelly on the contact surface.	
6.	Earthing of operating Handle	Check earthing of operating handle with copper flexible wire.	Intact
7.	Miscellaneous, if any.		

**l) 198/120/42 kV Lightning Arrester (As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly & quarterly schedule		
2.	Leakage current, if monitor provided	Measure & record of leakage current	Less than 500 Micro Amps

3.	Miscellaneous, if any.	
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**m) Control and Relay Panel (As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly schedule		
2.	Indication and recording Instrument	Check all indication and recording instrument for healthiness. Replace if defective.	
3.	Relay	Check & clean outer terminals of relay	
4.	Door gasket & Hinges	Check & replace gasket for damages. Replace with new, if necessary	
5.	All connections	Check all connections. Tighten, if found loose.	
6.	Miscellaneous, if any.		

**n) Condition Based Maintenance through Thermo vision Camera(Traction Substation) AC TRD (Traction Sub-Station) (As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Cable Termination of cable isolators Ends Connection	- Check thermal scanning by thermo vision camera. - The temperature of hot spots is compared with adjacent/nearby similar components.	
2.	All joints, commotions, Jumpers PG Clamps of incoming Switchyard And outgoing switch gear	- Check thermal scanning by thermo vision camera. - The temperature of hot spots is compared with adjacent/nearby similar components.	
3.	Transformers bushing connection	- Check thermal scanning by thermo vision camera. - The temperature of hot spots is compared with adjacent/nearby similar components.	
4.	Bus bar joints	- Check thermal scanning by thermo vision camera. - The temperature of hot spots is compared with adjacent/nearby similar components.	
5.	LA,CT,PT connections from bus bar and PG clamps	- Check thermal scanning by thermo vision camera. - The temperature of hot spots is compared with adjacent/nearby similar components.	
6.	HV side bi-polar isolators.	- Check thermal scanning by thermo vision camera.	



	Single pole isolator contact and bus bar	- The temperature of hot spots is compared with adjacent/nearby similar components.	
7.	Power cable terminations And joints Provided in sub-stations	- Check thermal scanning by thermo vision camera. - The temperature of hot spots is compared with adjacent/nearby similar components.	
8.		Miscellaneous, if any.	

**o) Earthing & Bonding (As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Bonding & earth connection with structure	Check physical soundness & tightness of bonding & earth connection with structure, Lightning arrestor and electrical equipment inter panel connections.	
2.	Earth resistance of electrical equipment body, fencing and Structure with electrode	Measure & record the earth resistance of electrical equipment body, fencing, structures by earth tester.	
3.	Shielding wire	Check termination of shielding wire condition and bonding with structures.	
4.	Earth resistance of each electrode after disconnection	Measure & record the earth resistance of each electrode after disconnecting it from common earth system by earth tester.	
5.	Combined earth resistance of TSS/SP/SSP with Rail	Measure & record the earth resistance of combined electrode without disconnecting it from common earth system by earth tester.	For TSS<0.5 ohm and SP and SSP <2.0 ohm
6.	Miscellaneous, if any.		

**o. Battery Charger (As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly & quarterly schedule		
2.	Cleaning	Check and clean battery charger from outside and inside with soft wire brush.	

3.	i. Rectifier ii. Coarse, fine/ control switch, iii. Trickle/Boost changeover switch	Check & tight connection of all terminal connectors and working: i. Rectifier, ii. Coarse/fine control switch iii. Trickle/Boost change over switch	
4.	Miscellaneous, if any.		

**Note:** In case battery charger is of SMPS type, OEM's manual may be referred to for the scheduled maintenance.

**p. AC/DC Distribution Panel (As per DFCC Maintenance Manual)**

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to quarterly schedule		
2.	Panel	Check & clean the panel inside and outside by soft wire brush.	
3.	MCB, rotary switches	Check & clean for smooth operation & working without obstruction	
4.	Tightness	Check & tight cable termination of MCBs, rotary switch and bus bar	
5.	Miscellaneous, if any.		

**For Any Clarification on Schedule of Maintenance the DFCCIL Maintenance Manual for OHE and PSI can be referred.**

## 5.0 **TIME SCHEDULE**

### 5.1. TIME OF START AND COMPLETION

1. The completion period for said maintenance work is **12 (Twelve) months**.
2. The Contractor shall be expected to mobilize and commence supply of maintenance services as per instruction received from competent authority of DFCCIL to start the work.
3. If the Contractor fails to start the awarded work within 15 days, 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.

## 6.0 **Engineering Organization**

The Tenderer shall have adequate Engineering Organization required for the execution of the tendered work. The Tenderer shall submit the documents with regard to list of total personnel available and proposed to be engaged for the subject work in the Performa.

### (i) **Minimum gang size:**

**The Contractor should have minimum one gang consisting of the following staff for up to 20 TKM of HIGH RISE OHE& PSI.**

- (a) **One Supervisor In-charge:** He should have minimum qualification & experience as details given in table under Para 6.1(a) below.
- (b) **One Asst. Supervisor:** He should have minimum qualification & experience as details given in table under Para 6.1(a) below.
- (c) **Two Technicians/Fitters (Skilled):** They should have minimum qualification & experience as details given in table under Para 6.1(a) below.
- (d) **Three Helpers (Un-Skilled):** They should have minimum qualification & experience as details given in table under Para 6.1(a) below.

Note: In case the deployed Supervisor will take leave or leaving his head quarters, contractor in position to deploy another employee having equivalent educational & experienced as “Supervisor” for the work. At no time the gang shall be permitted to work at site without contractor’s supervisor. The maintenance shall be supervised by M/s Sojitz & L&T Supervisor and his instructions shall be followed as per maintenance manual.

### (ii) **Required gang size:**

The contractor should proportionately increase the size of the gang (i.e. Technicians and Helpers) **to 0.22 staff per TKM** where contract exceed 20 TKM of HIGH RISE OHE& PSI.

### (iii) **Suitable reliever:**

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

(iv) **Provisions of Payments of Wages Act:**

The contractor shall comply with the provisions of the payment of wages Act 1936 with its latest amendments if any and the rules made there under in respect of all employees directly or through petty contractors or sub-contractors employed by him in the works. It shall be ensure that Minimum wages Act 1948, EPF, ESI act and Workmen compensation act 1923, Contract Labour act 1970, Miscellaneous Provision Act 1952 under about Law etc. rules & regulation as may be enacted by government or any modification thereof or any other law relating thereof and rules made there under time to time. In the event of non-Compliance of the contractor would undertake to indemnify DFCCIL on any cost or liability it may incur on account of such non compliance

- (v) Any dispute regarding labour deployment as per LABOUR ACT i.e. payment, weekly rest, extra work, leave, medical benefit, VDA or any other claim of deployed labour should be set right by the contractor. DFCCIL will not responsible for the same.

**Qualification of the contractor's Personnel for 2x25kV HIGH RISE OHE& PSI equipment Maintenance work**

- (a) Contractor is required to deploy Supervisors, Technicians and Helpers round the clock, for all maintenance and restoration of 2x25kV HIGH RISE OHE Break down works & trouble free operation of PSI 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:

<b>EDUCATIONALQUALIFICATION</b>	
<b>Staff Qualification: Following stipulation are made:-</b>	
<b>Supervisor staff:</b> The supervisory staff posted by the contractor should at least be Diploma/Degree holder in electrical Engineering discipline <b>OR</b> should have worked at the supervisory level (SSE/JE of HIGH RISE OHE/PSI/RC) as relevant in Railway for a minimum period of 5 years.	
<b>Technician:</b> The technician posted by the contractor should at least be ITI holder <b>OR</b> should have worked as HIGH RISE OHE/PSI technician in Railway for a minimum period of 5 years.	
<b>Other staff:</b> All other staff deployed by the contractor for carrying out schedule maintenance of HIGH RISE OHE/PSI Depot Line should at least be High school pass.	
Note:	
1.Photostat copies above educational qualification Certificates shall be attested by any Gazetted Rank officer in Central /State Governments.	
2.The certificate of experience shall be countersigned by tender signing authority of the subject tender.	

**(b) Training to the contractor's personnel:**

All the personnel desired to be deputed for this work including supervisors have to undergo a scrutinizing test conducted by Dy.CPM/EL/DFCCIL or his authorized representative. Candidates found suitable shall be issued "competency certificate" by Dy.CPM/EL/DFCCIL or his authorized representative and they will be finally put on job. The suitable candidates will be given an Identity card and a competency certificate valid for a period of currency of contract

which they have to keep with them while on duty and for their movements in the DFCCIL work spots.

**(c) Medical fitness certificates:**

All the personnel whether undergone training as per Para 6.1(b) above OR having experienced as per Para 6.1(a) above shall undergo a scrutinizing test conducted by authorized representative of CGM /Ajmer of the respective section. Candidates found suitable shall be issued with competency certificate by respective authorized representative of CGM /Ajmer .

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

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

**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) Competency Certificate for 2x25kV Isolators ( SP/DP) with or without Earthing Heel:**

The contractor's personnel who are found to be qualified and suitable in the scrutiny by authorized representative of DFCCIL shall only be allowed to work. All the Supervisory Staff & Technicians of the contractors shall attend to the nominated officer of DFCCIL to take the counseling & training to operate 2X25 kV Isolators ( SP/DP) with or without Earthing Heel. The competent staff shall be given a "Competency Certificate for 2X25kV Isolators" by the above nominated officer and it shall be carried by such staff while on duty on subject section.

**f) Commencement of O.H.E and P.S.I. equipment Maintenance Contract at field:**

The contractor shall commence HIGH RISE OHE and PSI equipment maintenance work at field within 60days from obtain a letter from competent authority of DFCCIL duly stating actual date of commencement of subject HIGH RISE OHE and PSI equipment maintenance work and accordingly the completion period of contract (Twelve months) will be reckoned.

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

**h) Photo Identity Cards ,Uniform & PPE equipments to the Contractor Staff Deployed:**

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

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

The contractor shall arrange Identity cards valid only for a period of currency of contract for the

suitable persons whom they have to keep with them while on duty and for their movements in the DFCCIL works pots.

The age of the contractor's personnel deputed for duty should be more than 18 years and less than 58 years as on date of commencement of work.

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

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

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

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

These staff should reside close to the contractor's Depot for easy approach during emergencies. Residential addresses and phone numbers of specified staff should be made available with Traction Power Control and relevant HIGH RISE OHE depot.

The DFCCIL reserves the right to ask the contractor to remove any contractor's personnel from duty without assigning any reason whatsoever. The decision of DFCCIL's Engineer- in-charge will be final and binding on the contractor.

Any changes in the list shall be done with prior approval of Railway authority.

#### **Safety during O.H.E & P.S.I. Maintenance work at field:**

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

- (a) The contractor should maintain safety belts to his staff those authorized to work on the HIGH RISE OHE, shockproof safety shoes, raincoats and helmets etc. to all his site staff and two red banner flags, two sets of hand flags should be maintained with each gang at his own cost.
- (b) Communication facilities (cell phones) shall have for all the technicians and supervisors by 24x7 hrs.
- (c) While working in normal maintenance, if any breakdown occurs in the section, the maintenance staff should be diverted to breakdown site immediately as per the direction of DFCCIL's representative.
- (d) If any unusual occurrence/Breakdown taken place the contractor's staff should reach the breakdown vehicle within **20 minutes in day time and 25 minutes at night** time after receipt of the information from purchaser's representative and to report the purchaser'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 before leaving to the breakdown site. In all such cases contractor should ensure full strength staff before leaving for the break down site.
- (e) Contractor shall provide for transportation of his staff by road/train for foot patrolling /AT fuse replacement/foreign body removal/any other activities specified by DFCCIL's representative.

- (f) Contractor shall be in position for arranging immediately attention of the defects noticed during various inspections for normal / emergency power block.
- (g) The arrangement for the stay of the contractor's staff shall be made by the contractor at his own cost.
- (h) Safety precautions to be followed as per safety plan/ maintenance manual.
- (i) The contractor shall have to take all precautions to prevent possible electrical accidents due to proximity of adjacent live HIGH RISE OHE always in live condition, unless otherwise a power block is granted on the adjacent line. The contractor shall also take all precautions to protect his staff working on the line against traffic (running of trains) on the working lines/adjacent lines.

**Progress Monitoring of Maintenance Schedule:**

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

**Tools and plants management:**

- (a) Though the tools required for the maintenance shall be provided by the purchaser as part of IMD/IMSD but contractor should have minimum set of Tools & equipment to cater maintenance of HIGH RISE OHE & PSI in New Madar – Iqbalgadh section.  
The proper up keeping of tools and plants supplied to the contractor shall be responsibility of the contractor and any damage to these equipments other than normal wear & tear shall be recovered from the contractor. Any additional tools and plants required other than the tools provided by the purchaser for maintenance of the HIGH RISE OHE/PSI shall be arranged by the contractor at his own cost.
- (b) Periodical load testing of tools, tackles, plants shall be carried out to ensure healthiness and safety of equipment duly maintaining testing record equipment wise. Meters like dynamometer, etc., shall be calibrated & maintained for periodical testing of tools & plants.
- (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.

**Depot At Site:**

- i. The Purchaser has established Integrated maintenance depot (IMD) and Integrated maintenance Sub depot (IMSD) at various stations and tools supplied by DFCCIL has to be well maintained by gangs in respective IMD/IMSD for carrying out the maintenance. Any theft or loss of tools shall be recovered from the Contractor.
- ii. The main depot will be located at take-off station of the Siding/section. For the main and sub-depots, the Purchaser shall offer open space reasonably level and workable and suitable for storage of materials free of charge, inside DFCCIL premises which will be convenient from the point of view of operation. The depot/s shall as far as possible be located such as to be accessible by road.
- iii. Electricity may be supplied at places where spare capacity is available for running of machinery and for lighting. The Contractor shall provide his own electrical distribution system, in consultation and with the approval of the Purchaser. The cost of providing

connections and of energy consumed shall be paid by the Contractor to the Purchaser in accordance with relevant rules and prevailing rates of the DFCCIL. The decision of the Purchaser in regard to supply of Electricity shall be final and binding on the Contractor.

- iv. At places where piped water supply is available the Purchaser may supply water to the Contractor at convenient points for his office, workshops and stores if necessary in connection with the work. The Contractor shall arrange to lay his own pipe lines for distribution in consultation and with the approval of the Purchaser. The Contractor shall be charged for consumption of water at the prevailing rates. The decision of the Purchaser in regard to supply of water shall be final and binding on the Contractor.
- v. The contractor shall hand over the depot, sub-depot area complete within a period of one month from completion of the work, cleaned of all Contractors' stores unless otherwise agreed to by the Purchaser.
- vi. **Security to Purchaser's IMD/IMSD**: The requisite number of Security Guards round the clock for the IMD/IMSD depot will be the responsibility of purchaser/Employer.
- vii. The Tenderer should have all the construction Machinery and plants, vehicles etc. required for the execution of tendered work. The Contractor shall arrange at his own cost all M & P and facilities as necessary for erection and testing of the equipments in compliance with the Specification.

The Contractor shall provide the following at a suitable location in the depot for ready reference of all the working staff:

1. The Contractor shall provide two number of approved brand of DCP Type fire extinguishers each of 4 liter capacity including mounting arrangements.
2. Shock treatment chart (Laminated) in Tri-lingual (English, Hindi & vernacular language of the area) Colour of letters and background shall be such that they are clearly readable by a layman. Standard first Aid box of GI Sheet with pad lock of good quality as approved by the purchaser.
3. Schematic diagram of the subject section on a board of 3 x 2 feet in size on white decolom plywood of 8 mm thickness.
4. One set of Standard Maintenance Instructions.
5. Safety Precautions such as Pictographic safety rules and Charts of "Do's & Don'ts" from Operating, C & W, P.Way and Running Staff point of view.
6. Safe working and work site in electrified territory and safety against electrocution from Tr.D installation.

### **Stores Management in Depot at Site**

- (a) The consumable material for the maintenance and replacement for the defective parts shall be provided by the purchaser. The material required for the maintenance shall be issued by authorized representative of CGM/Ajmer available at IMD/IMSD. The material shall be issued to the contractor on demand as per the requirement of the maintenance in the section further the essential material issued to the contractor to attend 24x7 breakdowns shall lie with the contractor. The material shall only be issued to authorized person of the contractor.
- (b) Maintenance of record for daily material transaction and entries in ledgers for the same should be carried out by the supervisory in-charge. Shortfall of consumed stores shall be recouped periodically so as to ensure that the minimum quantity is always available. During periodic inspections by Railway officers, scrutiny of this inventory should be one of the important items



in order that the required stores are always made available.

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

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

#### **Guarantee Bond for Indemnification of DFCCIL Materials:**

- (a) The materials supplied as per requirement under "Scope of the work and Special conditions" shall be covered by the **Guarantee Bond For Indemnification of DFCCIL Materials of sufficient requisite amount** on stamp paper of requisite value of the material supplied by DFCCIL to be submitted by the contractor before lifting the material from DFCCIL depots.
- (b) **Reconciliation of Materials supplied by the Railway:** All the material supplied by the purchaser and also released from the existing 2x25kV HIGH RISE OHE installations & Power Supply Installation shall be correctly accounted for and quantities reconciled on completion of the work by the contractor.
- (c) On completion of work, all surplus materials supplied by the purchaser together with the ones found defective or that have become defective or broken on account of defective materials, the surplus DFCCIL supplied material to be handed over to concerned depot. For the purpose of measurement of 2x25kV HIGH RISE OHE & PSI equipment, the length of the conductor will be taken from termination to termination and erection tolerance of 0.5% will be allowed.
- (d) **Release of the Guarantee Bond for Indemnification:** After according approval to the "Materials Reconciliation Statement" "Guarantee Bond for Indemnification will be released with approval of CGM/Ajmer of respective unit.

#### **Contractor Vehicles:**

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

All kinds of repairs/maintenance costs, charges of fuels, oil, lubricant, mobile phone charges, fee towards licences /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,

**Tower Wagon:**

For carrying out maintenance and other works on Section Insulators, cross-over/Turn-outs, Overlaps, attending spark locations, staggers, etc. **Tower Wagon will be spared by DFCCIL** to the extent of requirement.

**POWER BLOCKS AND PERMITS-TO-WORK:**

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

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

**Knowledge of Rules and Sectioning:**

1. It is very important for every contractor Supervisor who has occasion to ask for power block to know the correct method of identifying and describing any section of the HIGH RISE OHE where shutdown is required. He should have with him the up to- date Station Working Rule Diagram for the section, showing all relevant particulars such as station names, position of all isolators, interrupters, circuit breakers, "up" and "down" tracks, cross- over section insulators, sectors, sub-sectors and elementary section numbers.

2. All contract staff shall be fully conversant with the "Rules & Safety Procedures" while working on TRD installations as laid down in maintenance manuals.
3. Competency certificates for working in 2x25kV electrified areas will be issued by DFCCIL as per the scope of work.
4. Safety precautions to be followed as per safety/maintenance manual.

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

- (a) The contractor shall maintain records of maintenance, inspections, special checks, other works, etc., in the standard format of registers, records, and schedule forms as per the guide lines of circulated time to time. Vital HIGH RISE OHE parameters recorded during maintenance shall be updated in the records, registers, forms for review of maintenance performance, remedial measures and further action plan to achieve high reliability.
- (b) Each two copies of Drawings such as LOP, SED, Operation & Maintenance Manual and As build documents etc. of agreement work will be spared by DFCCIL at free cost.
- (c) List of maintenance registers and forms to be maintained along with Joint procedure orders issued by DFCCIL on time to time.

**BREAKDOWN GANGS:**

- (a) Accidents and breakdowns involving traction installations and electric rolling-stock should normally be attended to by the nominated contract gangs themselves. It is, however, essential that the contractor shall maintain adequate number of experienced staff comprising Technician, Helpers and Supervisors, housed close to IMD/IMSD. In electrified suburban sections, however, 'breakdown gangs' of adequate strength may be located at selected points to deal promptly with HIGH RISE OHE failures, particularly during the hours of peak traffic.  
The breakdown gang comprising supervisory staff, technicians, helpers, etc., shall be fully aware of different skills required to tackle HIGH RISE OHE breakdowns of various nature.
- (b) **Summoning Of Emergency Staff:** To enable the TPC to summon breakdown staff as required, a register showing the residential addresses with phone numbers of specified staff of the contract gang those residing close to depots/railway stations, shall be maintained depot-wise/station-wise by TPC.
- (c) **Importance of Expeditious Repairs:** Every breakdown of HIGH RISE OHE, even if minor in nature, should be attended to urgently as it generally interferes with traffic. Since electrified lines carry a high density of traffic, the effect on traffic will be quite severe if restoration is not arranged expeditiously.
- (d) **Detailed Assessment by The First Supervisor Reaching Site:** The first Supervisor / staff reaching the site of the breakdown should make a quick assessment of the extent of damage and the time required for restoration. He will ascertain from TPC the details of break-down gangs and equipment directed to the site and if the circumstances warrant, ask for additional gangs and breakdown equipment to be sent to the site. On receipt of these details, TPC should arrange for additional gangs and equipment to be sent to the site expeditiously. In the meanwhile, isolation and repair works should be started at site.

**Power Block Working – Protection of Men Working:**

- (i) DFCCIL will arrange only power block for the works related to power block depending on the traffic and other conditions. The contractor shall ensure the removal of men and material before cancellation of power block. The contractor shall have to take full advantage of available power block by employing adequate staff for getting the maximum possible work done during the available block period. For adhering to target date of completion, the contractor may have to work during night time under power block for which the contractor is not entitled for any additional payments.

- (ii) The contractor shall take all precautions necessary to protect staff working under him. The contractor shall treat all other lines live except the line under Power block. He should ensure execution of work under the supervision of a competent person to carry out the work in electrified areas. Unless the adjacent lines are also under power block, voltage and currents will be induced in the line under power block. To protect against these induced voltages and currents, earth discharge rods are to be provided. Care should be taken by the contractor that these discharge rods are intact and not disturbed by his staff. He shall also ensure that none of the staff working under him shall work/reach beyond safe working limits
- (iii) Under all conditions the contractor shall have to arrange protection of his staff against traffic. He shall have to also take all necessary precautions to guard against any possible obstructions to traffic during working by providing necessary staff while erection/dismantling of structures, coverage of excavated foundation pits with sand filled bags to keep free of stacked materials from obstructions to traffic etc.,
- (iv) At the end of each power block work the contractor shall ensure removal of all men and material and no work inclusive of HIGH RISE OHE should be left out in a state of obstruction to running of trains and the HIGH RISE OHE should be made fit for electric traffic, failing which DFCCIL will remove such obstructions and the Contractor will be liable to pay cost of such removal.
- (v) If the contractor fails to execute and to work within the time of power block granted, DFCCIL shall be at liberty to take action and recover penalty for availing additional power block in accordance with standard practice of the DFCCIL. The contractor shall in consultation with the - DFCCIL submit a weekly power block programmed for work, 7 days in advance of the commencement of work.

#### **Right to Alter the Scope of Work:**

The Employer reserves the right “to alter the scope of work”.

**The General conditions of Contract governing the performance of the works covered by this tender are the “General conditions of Contract (July-2014) or latest” of the Engineering Department of the DFCCIL as amended from time to time up to date. A copy of the book-let incorporating the above “General Conditions of Contract (July- 2014)” may be perused in the Office of CGM /Ajmer of respective division.**

If there is any conflict between “Special conditions” and “General conditions of contract”, the conditions laid down in “Special conditions” will be sustained.

#### **Inspection:**

Quality of schedule maintenance and other works carried out by the contractor are subject to periodical inspections by Purchaser’s Engineers 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.

#### **DEDUCTION OF INCOME TAX AT SOURCE:**

In terms of new section 194-C inserted by the finance act 1972, in the income tax 1961, the DFCCIL shall at the time of arranging payments to the contractor for carrying out any work (including supply of labour for carrying out any work) under the contract, be entitled to deduct income tax at source on income comprised in the sum of each payment.

**DEDUCTION OF TAX AT SOURCE:**

All statutory and govt. charges will be deducted at source in effect from time to time.

**Legal Charges:**

A fee of Rs. 200/- per legal document, like partnership deed or power of attorney executed before or after the execution of the contract, will be recovered from the contractor for obtaining legal Advice from Law Officer.

**Completion of Work:**

The contractor shall commence the work as specified in Para 2.5 of “**Scope of the work and Special conditions**” and shall complete the work in all respects as specified in tender details.

The DFCCIL attach utmost importance to the timely completion of the work on or before the date contracted for. In this connection, the attention of the contractor is specially invited to the clauses regarding 'Liquidated damages' and termination of contract owing to default of contractor provided for in General Conditions of Contract.

**Guarantee:**

- (i) The successful bidder should give a performance guarantee in the form of irrevocable bank guarantee amounting to 3% of the contract value. This should be furnished after the letter of acceptance but before signing of the agreement and should be valid as specified in the General condition of Contract.
- (ii) Since it is for manpower of 2x25kV Overhead equipment and Power supply installation equipment maintenance, the contractor shall guarantee satisfactory working of the installation of 2x25kV HIGH RISE OHE and PSI equipment maintained by him upto the satisfaction of engineer in charge. This being maintenance contract warranty after completion period not applicable. During the period of guarantee contractor shall keep available and attend to any defect and replace the equipment/components resulting from defective erection or defects in the equipment supplied by the contractor.

**PRICES AND PAYMENT TERMS**

The schedule of Items, rates and Quantities (BOQ) as given in Tender Document has been priced by DFCCIL taking all aspects and conditions of work into proper consideration and the unit rates arrived is given for information of the tenderers. The tenderers are to quote their rates in figures as well as in words as a percentage ABOVE, BELOW or AT PAR of each Schedule i.e. Schedule 1 (HIGH RISE OHE), Schedule 2 (PSI).

**PAYMENT TERMS**

The Contractor will have to maintain the log register in prescribed format duly verified by DFCCIL site in charge. The billing will be done monthly at the end of every month on production of bills by contractor. Payment will be made after verification by DFCCIL representative. Complete details regarding GST registration number, PAN No, Bank detail should be printed on Contractor's Bill.

**Taxes and Duties:-**

Unless otherwise provided in the contract documents the contractor shall secure and pay for all permits, Government fees and Licenses necessary for the execution and completion of the works. The contractor shall pay all duties including excise duty, sales tax, works contracts tax, local tax and other Government tax except service Tax/ GST. Any Violation in the legal provisions of taxes, duties, permit & fees, carried out by the contractor and detected subsequently shall be the sole responsibility of contractor and his legal heirs.

All the taxes & duties levied by the state & central Government & by the local bodies shall be fully borne by the contractor & shall not be reimbursed to him on any account unless otherwise specified in the tender. The tender shall be inclusive of all Taxes, levies, octroi etc. Further DFCCIL shall not own any claim out of any increase in any of the prevailing statutory duties, taxes, levies, octroi etc. At the time of quoting / tendering contractor should bear the above facts in mind.

**Levy of services Tax/ GST:-**

- a. Services Tax/ GST, as admissible shall be paid extra as applicable on submission of proof of depositing the same to the concerned Govt Authority. Any modification in tax provision in future by Govt. will be binding on the contractor and DFCCIL with immediate effect
- b. Service Tax registration certificate/ GST Registration number should be provided by the contractor to DFCCIL & registration number must be mentioned in each invoice.

**MODE OF PAYMENT:**

All payments to the Contractors shall be made through Electronic Clearing System (ECS)/NEFT/RTGS.

**10.0 Vehicle Insurance & Statutory Requirements**

The vehicles used by contractor must be fully & comprehensively insured covering the risk to the Driver & all passengers also. The insurance shall protect the contractor & DFCCIL against all risk, claims for loss, injuries, disabilities, diseases and death of member of public including DFCCIL persons and damage to the property of others arising from the use of motor vehicle during operation respective of the ownership of such vehicles.

**Defense of Suit**

If any action in court is brought by third party against DFCCIL or Officer or agent of DFCCIL for the failure or neglect on the part of the contractor to perform any acts, matters, covenants or things under the contract, or for any damage or injury caused by the alleged omission or negligence on the part of the contractor, his agents/ representative or his sub contractor, drivers or employees, the contractor/ agency shall in such cases be responsible & indemnify & keep DFCCIL & or his representative harmless from all losses, damages, expenses or decrees arising out of such action.

**11.0 VARIATION IN CONTRACT QUANTITIES:**

The DFCCIL reserves the right to alter the designs and drawings. If due to change of drawing or design or any other reasons, there be variations, either increase or decrease in quantities, payment will be made only for the actual quantities executed at the accepted rates. If there be sufficient cause the DFCCIL may grant extension of the date of completion suitably. Such circumstances shall in no way affect or vitiate the contract or alter the character thereof, or entitle the contractor to damages or compensation thereof except as provided for in this contract.

The quantities of each item of work furnished in the Schedule are approximate and are intended for the guidance of Tenderer/Contractor.

- (I) Quantity variation for individual item and overall quantity in excess of  $\pm 25\%$  will be dealt as per prevailing SOP rules of DFCCIL on the date of tender opening date.
- (II) In all matters of dispute the decision of the tender accepting authority shall be final and binding.

#### **12.0 PRICE VARIATION CLAUSE:**

No price variation will be applicable in this work.

#### **13.0 RETENTION MONEY:**

Retention money for all contracts shall be recovered from on account/ final bills of the Contractor at 6% of gross value of each bill after adjusting EMD amount till the amount so recovered including EMD amount adds up to 5% of the contract value of the work etc. variation and extra work.

No interest shall be payable to the Contractor on the amount towards retention money.

#### **RELEASE OF RETENTION MONEY:**

1. The Retention Money shall be released to the Contractor after preparation of final bill and acceptance of the same by the Contractor after the physical completion of work based on the completion Certificate issued by the competent authority stating that the contractor has completed the work in all respect satisfactorily.
2. If requested by the Contractor, 50% of the Retention money may be released on deduction of retention money reaching 5% of the contract value against submission of Bank Guarantee for an equivalent amount by the Contractor in the prescribed Performs from any scheduled Bank. This Bank Guarantee shall be kept valid till the period of three months beyond the expiry of Defect Liability Period. Fixed Deposit Receipt (FDR) from a scheduled bank endorsed in favour of the Employer can be submitted by the Contractor in lieu of the Bank Guarantee for release of 50% Retention Money. In case of the requirement, the Bank Guarantee/FDR shall be extended by the contractor, for the period as directed by the Engineer/Employer.

#### **PERFORMANCE BANK GAURENTEE :**

- (a) The successful bidder shall have to submit a Performance Guarantee (PG) within 21 (Twenty one) days from the date of issue of Letter of Acceptance (LOA). Extension of time for submission of PG beyond 21 (Twenty one) days and up to 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12% per annum shall be charged for the delay beyond 21(Twenty one) days, i.e. from 22nd day after the date of issue of LOA. Further, if the 60th day happens to be a declared holiday in the concerned office of the DFCCIL, submission of PG can be accepted on the next working day. In all other cases, if the Contractor fails to submit the requisite PG even after 60 days from the date of issue of LOA, the contract is liable to be terminated. In case contract is terminated DFCCIL shall be entitled to forfeit Earnest Money Deposit and other dues payable against that contract. In case a tenderer has not submitted Earnest Money Deposit on the strength of their registration as a Startup recognized by Department of Industrial Policy and Promotion (DIPP) under Ministry of Commerce and Industry, DIPP shall be informed to this effect. The failed Contractor shall be debarred from participating in re-tender for that work.
- (b) The successful bidder shall submit the Performance Guarantee (PG) in any of the following forms, amounting to 3% of the contract value (for all tenders issued till 31.12.2021). The reduced percentage of Performance Security shall continue for the entire duration of the contract and there shall be no subsequent increase of Performance Security even beyond 31.12.2021.
  - (i) A deposit of Cash;
  - (ii) Irrevocable Bank Guarantee;
  - (iii) Government Securities including State Loan Bonds at 5% below the market value;
  - (iv) Deposit Receipts, Pay Orders, Demand Drafts and Guarantee Bonds. These forms of Performance Guarantee could be either of the State Bank of India or of any of the Nationalized Banks;
  - (v) Guarantee Bonds executed or Deposits Receipts tendered by all Scheduled Banks;
  - (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 CPM, DFCCIL, Ajmer (free from any encumbrance) may be accepted.
- (c) The Performance Guarantee shall be submitted by the successful bidder after the Letter of Acceptance (LOA) has been issued, but before signing of the contract agreement. This P.G. shall be initially valid up to the stipulated date of completion plus 60 days beyond that. In case, the time for completion of work gets extended, the Contractor shall get the validity of P.G. extended to cover such extended time for completion of work plus 60 days
- (d) The value of PG to be submitted by the Contractor will not change for variation up to 25% (either increase or decrease). In case during the course of execution, value of the contract increases by more than 25% of the original contract value, an additional Performance Guarantee amounting to 3% (Three percent) for the excess value over the original contract value shall be deposited by the Contractor. On the other hand, if the value of contract decreases by more than 25% of the original contract value, Performance Guarantee amounting to 3% (Three percent) of the decrease in the contract value shall be returned to the Contractor. The PG amount in excess of required PG for decreased contract value, available with DFCCIL, shall be returned to Contractor as per his request duly safeguarding the interest of DFCCIL.
- (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 shall not make claim under the Performance Guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the agreement) in the event of:
  - (i) Failure by the Contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer may claim the full amount of the Performance Guarantee.
  - (ii) Failure by the Contractor to pay President of India any amount due, either as agreed by the Contractor or determined under any of the Clauses/Conditions of the Agreement, within 30 days of the service of notice to this effect by Engineer.

## **4216.0 NON-PERFORMANCE OF THE CONTRACT CONDITIONS**

### **16.1 Penalties**

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

The staff should be available 24 hours X 7 days of the week. The contractor should ensure the availability of full strength gang 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.

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

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

If breakdown occurs due to poor maintenance, fail to utilize power block, poor progress forevery hour of power block utilized , bursting of power block and proved in joint findings a



penalty of **Rs.20,000/- on flat rate basis per occasion. For power block burst less than or more than hour, penalty shall be imposed on pro-rata basis.**

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

In addition of above not attending the break down maintenance of the equipments with in twelve hours from information given by TPC/APM/Incharge to the contractor, a penalty of Rs.50000/- per break down will be levied.

**C) Recovery due to wrong operation of equipment:**

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

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

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

If the contractor's personnel is found without Identity card, found in untidy condition, having improper conduct, found not obeying the instructions of Engineer In-Charge of DFCCIL, a penalty of **Rs. 500/-** shall be levied and recovered from Contractor's bill for each such instance. If such deficiencies are found to be more than 5 in a month, it may be a ground for termination of the contract. Also the contractor's personnel shall be dealt according to the DFCCIL rules in force from time to time.

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

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

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

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

**G) Recovery Due To state of Intoxication**

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

**The penalties as mentioned above may be imposed simultaneously.**

### **17.0 FORCE MAJEURE CLAUSE:**

For the purposes of this Contract, "Force Majeure" means an event which is beyond the reasonable control of a Party, and which makes a Party's performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.

The failure of a Party to fulfill any of its obligations under the contract shall not be considered to be a breach of, or default under this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event (a) has taken all reasonable precautions, due care and reasonable alternative measures in order to carry out the terms and conditions of this Contract, and (b) has informed the other Party as soon as possible about the occurrence of such an event.

### **18.SETTLEMENT OF DISPUTES - DFCCIL ARBITRATION RULES**

#### **Matters finally determined by the DFCCIL**

All disputes and differences of any kind whatsoever arising out of or in connection with the contract, whether during the progress of the work or after its completion and whether before or after the determination of the contract, shall be referred by the contractor to the CGM/Ajmer/DFCCIL 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 matter for which provision has been made in clauses or in any special clause of the 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 arbitration clause

#### **Demand for Arbitration:-**

1. 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 18.0 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.
2. 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.
3. 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.
- 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.
- 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 thereafter, unless otherwise extension has been granted by Tribunal.

- d) The place of arbitration would be New Delhi
4. 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.
5. 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 DFCCILs/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.

#### **Obligation during Pendency of Arbitration:**

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

#### **Appointment of arbitrator**

- a. i). In cases where the total value of all claims in question added together does not exceed Rs.25,00,000 (Rupees Twenty five lakhs only), the Arbitral tribunal shall consist of a sole arbitrator nominated by the MD/DFCCIL. The sole arbitrator shall be appointed within 60 days from the day when a written and valid demand for arbitrator is received by MD/DFCCIL .
- ii). In cases not covered by the above clause, the Arbitral Tribunal shall consist of a Panel of three officials, as the arbitrators. For this purpose, the DFCCIL will send a panel of more than 3 names of DFCCIL officers which may also include the name(s) of Officer(s) empanelled 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 accounts department shall be considered of equal status to the officers in SA grade of other department of DFCCIL for the purpose of appointment of arbitrator.
- iii). 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 MD/DFCCIL 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).
- iv). 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 arbitral Tribunal should record day-to-

day proceedings. The proceedings shall normally be conducted on the basis of documents and written statements.

v). While appointing arbitrator(s) under sub-clause (i), (ii) & (iii) above, due care shall be taken that he/they is/are not the one/those who had an opportunity to deal with the matters to which the contract relates or who in the course of his/their duties as DFCCIL servant(s) expressed views on all or any of the matters under dispute or differences. 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.

- b. 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 there from.
- 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.
- 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.

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.

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.

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 the DFCCIL from time to time and the fee shall be borne equally by both the parties.

Subject to the provisions of the aforesaid Arbitration and Conciliation Act 1996 and the rules there under and any statutory modifications thereof shall apply to the arbitration proceedings under this clause.

#### **SAFETY PRECAUTIONS TO BE TAKEN AT WORK SITE:**

The contractor shall not allow any road vehicle belonging to his or his Contractors etc. to ply in railway land next to the Railway line. If for execution of certain works, viz., earthwork and transportation of materials etc. road vehicles are necessary to be used in railway land next to the railway line the contractor shall apply to the Engineer-in-charge for permission giving the type and number of individual vehicles, names and license particulars of the drivers location duration and timings for such works/movement. The Engineer-in-charge or his authorized representative will personally counsel, examine and certify the road vehicle drivers, contractor's flagmen and Supervisor and will give written permission giving names of road vehicle drivers, contractor's flagmen and supervisor, to be deployed on the work, location, period and timing to the work. This permission will be subject to the following obligatory conditions.

- i) Road vehicles can ply along the track after suitable cordoning of track with minimum distance as per site condition and instructed by Engineer from the center of the nearest track. For ply of road vehicles during night hours, adequate measures to be communicated in writing along with a site sketch to the contractor/contractor's representative and

controlling engineers/supervisors in charge of the work including officers and the in-charge of the sections.

- ii) Nominated vehicles and drivers will be utilized for work in the presence of at least one flagmen and one supervisor certified for such work. The flagmen/supervisor as required shall be arranged by contractor and no separate payment shall be made for this.
- iii) The Contractor shall remain fully responsible for ensuring safety and in case of any accident, shall bear cost of all damages to this equipment and men and also damages to railway and its passengers.

Engineer-in-charge may impose any other conditions necessary for a particular work or site.

### **ORDER OF PRIORITY OF CONTRACT DOCUMENTS:**

The documents forming the Contract agreement are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence:

- i) The Contract Agreement.
- ii) Letter of Acceptance.
- iii) Form of bid
- iv) General Information
- v) Notice Inviting Tender ( with Annexes )
- vi) Instructions to Tenderers
- vii) Special Conditions of Contract
- viii) Annexures
- ix) Bill of Quantities (BOQ)
- x) General Conditions of Contract

### **21.0 Jurisdiction of Courts**

In case of any disputes/differences between contractor & DFCCIL the jurisdiction shall be of Ajmer Courts only.

### **22.0 Implementation of Integrity Pact in DFCCIL :-**

As per office memorandum no F.No DPE/13(12)/11-Fin Dated 09.09.2011 issued by Ministry of Heavy Industries (DPE) all PSU should enter into Integrity pact in the required Performa in their procurement transaction/ Contracts with suitable changes specific to the situation in which the pact is to be used. The pact, entering into which would be a preliminary qualification for any bidder, essentially envisages an agreement between the prospective vendors / bidders and the DFCCIL, committing the persons/ officials on both sides not to resort to any corrupt practices in any aspect / stage of the contract.

The pact has to be implemented through a panel of independent external monitor who will review independently and objectively the compliance of the obligations by both the parties. As these IEM's are to be appointed by the CVC in consultation with the CVO and are being processed separately.

A copy of pre contract integrity pact is enclosed at annexure G for signature of bidder as acceptance, as and when Independent External monitor is appointed.

**23.0** In case of any deviation in downloaded copy of the tender documents, the Master Copy kept in the office of Chief General Manager/Ajmer/DFCCIL, will prevail and the interpretation of CGM/Ajmer will prevail.

**(ANNEXURES)**

**CERTIFICATION OF FAMILIARISATION**

- A.** I/We hereby solemnly declare that I/We have visited the site of work and have familiarized myself/ourselves of the working conditions there in all respects and in particular, the following:
- a) Topography of the Area.
  - b) Availability of manpower.
  - c) Availability of tools and machinery.
  - d) The existing roads and access to the site of work.
  - e) Climatic condition and law & order situation in project area.
- B.** I/We have kept myself/ourselves fully informed of the provisions of this tender document comprising Instructions to the Tenderers, General Conditions of the Contract, Special Conditions, special terms and conditions apart from information conveyed to me/us through various other provisions in this tender document.
- C.** I/We have quoted my / our rates as “Percentage above / below / at par” of costs as per Schedule of Items Rates and Quantities (BOQ) **in Offer Sheet**, taking into account all the factors given above.

**(Signature of Tenderer/s)**



**ANNEXURE – B****SUPPLEMENTARY AGREEMENT**

Articles of Agreement made on this ..... in the year ..... and between DFCCIL acting through the Chief General Manager hereinafter called as one party and ..... of the second part.

Where the party hereto of the second part executed an agreement with the party hereto of the first part being agreement No. .... dated ..... for the performance of ..... herein called the principal agreement.

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 and whereas the party hereto of the first part already made payments to the party hereto of the second part diverse sums from time to time aggregating to **Rs.** ..... including the final bill bearing voucher No. .... dated ..... (the receipt of which is hereby acknowledged by the party hereto of the second part) in full and final settlement of all his claim under the 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 including / excluding security deposit, the party hereto of the second part have no further dues / claims against the party hereto of the first part under the said principal agreement.

It is further agreed by and between the parties that they 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.

It is further agreed and understood by and between the party that in consideration of the payment already made under the agreement the said principle agreement shall finally discharged and rescinded all the terms and conditions including the arbitration clause.

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 seems to be non existent for all purposes.

Signature of the Tenderer/s

For & on behalf of

Witness of the signatures

Witness .....

1.

2.

**ANNEXURE-C****UNDERTAKING BY TENDERER**

1. Being duly authorized to represent and act on behalf of..... and having fully understood all the tender conditions and requirements for fulfilling eligibility criteria including residual / available bid capacity, the undersigned hereby declare that:
  - i) The information / statements given in support of technical and financial capability as per para 1.0 A. B and C of Annexure-I of NIT of tender document are true and correct in every detail.
  - ii) This tender offer is made in the full understanding that:
    - a) All information / documents submitted along with tender offers by tenderer/s will be subject to verification by DFCCIL or its any authorized representative who may conduct any inquiries or investigations to verify the statements, documents and information submitted in connection with the tender offer and to seek clarification from our bankers, clients regarding any financial & technical aspects;
    - (b) In the event that the information/document submitted is found to be false or misleading, the tender shall be disqualified and the earnest money deposited shall be forfeited.
2. The client reserves the right to:
  - (i) Reject or accept any application, cancel the tender and reject all applications.

Signed

\_\_\_\_\_

Name

\_\_\_\_\_

 \_\_\_\_\_  
 For & on behalf of Name of  
 Firm/Company

**ANNEXURE-D**

(Guarantee –Bond offered by bank to DFCC in connection with the execution of  
Contracts) (SD)

**GUARANTEE BOND FORMAT**

(To be used by approved Schedule Banks)

1. In consideration of the Employer DFCCIL (herewith called “ The Employer”) having agreed to exempt\_\_\_\_\_ (hereinafter called “ The said Contractor(s)”) from the demand, under the terms and conditions of an Agreement No..... dated\_\_\_\_\_ made between \_\_\_\_\_ and \_\_\_\_\_ for \_\_\_\_\_ (hereinafter called the “ The Said Agreement “) of **security deposit** for the due fulfillment by the said contractor(s) of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only), we , \_\_\_\_\_ (indicate the name of the bank) (hereinafter referred to as “ The Bank”) at the request of contractor(s) do hereby undertake to pay to the Employer an amount not exceeding Rs. \_\_\_\_\_ against any loss or damage caused to or suffered or would be caused to or suffered by the Employer by reason of any breach by the said contractor(s) of any of the terms and conditions contained in the said Agreement.
2. We \_\_\_\_\_ (indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this Guarantee without any demur merely on a demand from the DFCCIL stating that the amount claimed is due by way of loss or damages caused to or would be caused to or suffered by the DFCCIL by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement or by reason of the Contractor(s) failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_.
3. We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s)/ Supplier(s) in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present is being absolute and unequivocal. The payment so made by us under this Bond shall be valid discharges of our liability for payment hereunder the Contractor(S)/Supplier(s) shall have no claim against us for making such payment.
4. We \_\_\_\_\_ (indicate the name of Bank) 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 fully paid and its claims satisfied or discharged or till \_\_\_\_\_ the Employer/DFCCIL certify that terms and conditions of the said Agreement have been fully and properly carried

out by the said Contractor(s) and accordingly discharges the Guarantee. Unless a demand or claim under this Guarantee is made on us in writing on or before the \_\_\_\_\_, we shall be discharged from all liability under this Guarantee thereafter.

5. At any time during the period in which this guarantee is valid the Employer may request for its extension and the Bank will extend this guarantee under the same condition for the required time at the cost of the Contractor.
6. We \_\_\_\_\_ (indicate the name of Bank) further agree with the DFCC that the DFCC shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extent time of performance by the said Contractor(s) from time to time any of the powers exercisable by the DFCCIL against the said Contractor(s) and to forbear or enforce any of terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the DFCCIL or any indulgence by the DFCCIL to the said Contractor(s) 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.
7. This Guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s)/Supplier(s).
8. We \_\_\_\_\_, (indicate the name of Bank) lastly undertake not to revoke this Bank Guarantee during its currency except with the previous consent of the DFCCIL in writing.

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: .....

**ANNEXURE-E****Format of Bank Guarantee for Performance Security**

Bank Guarantee No. : .....

Dated : .....

To,  
CPM/DFCCIL  
Ajmer

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

This deed of guarantee made this day of \_\_\_\_\_ Between \_\_\_\_\_ (Name of Bank) having registered office at \_\_\_\_\_ (hereinafter referred to as "Bank") of the one part, and Dedicated Freight Corridor Corporation of India Limited (hereinafter called the "Client") of the other part.

Whereas Dedicated Freight Corridor Corporation of India Limited has awarded the contract no. \_\_\_\_\_ for \_\_\_\_\_ (hereinafter called "the Contract") to \_\_\_\_\_ (Name of the Firm/ Consultant) having its registered office at \_\_\_\_\_ (hereinafter called the Firm/ Consultant).

AND WHEREAS the Firm/ Consultant is bound by the said Contract to submit to the Client an irrevocable performance security guarantee bond for a total amount of Rs. \_\_\_\_\_ (Rupees Amount in words).

Now, we the undersigned (name of the Bank official), of the Bank being fully authorized to sign and to incur obligations for and on behalf of the Bank hereby declare that the said Bank will guarantee the Employer the full amount of Rs. -----  
----- (Rs. In words) as stated above.

After the Contractor has signed the aforesaid contract with the Employer, the Bank further agrees and promise to pay the amount due and payable under this guarantee without any demure merely on a demand from the Employer stating that the amount claimed is due by way of loss or damage cause to or would be caused or suffered by the Employer by reason of any breach by the said contractor of any of the terms or conditions contained in the said agreement or by reason of the contractor failure to perform the said agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However our liability under this guarantee shall be restricted to an amount not exceeding Rs ----- (in words) only.

We ----- (indicate the name of Bank), further undertake to pay to the Employer any money so demanded 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 discharges of our liability for payment there under and the Contractor shall have no claim against us for making such payment.

We------(indicate the name of bank), to further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till at all the dues of the Employer under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged by -----

(Designation & address of contract signing authority) on behalf of Employer certify that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor and accordingly discharges this guarantee.

Not with standing anything to the contrary contained herein the liability of the bank under this guarantee will remain in force and effect until such time as this guarantee is discharged in writing by the Employer or until (date of validity/extended validity) whichever is earlier and no claim shall be valid under the guarantee unless notice in writing , thereof is given by the Employer within validity/extended validity period of guarantee from the date aforesaid.

Provided always that we..... (name of bank) un conditionally undertakes to renew this guarantee or to extend the period of guarantee from year to year before the expiry of the period or the extended period of guarantee, as the case may be on being called upon to do so by the Employer. If the guarantee is not renewed or the period extended on demand, we (name of bank) shall pay the Employer the full amount of the guarantee on demand without demur.

We------(indicate the name of Bank), to further agree with the Employer that the Employer shall have the fullest liberty without our consent and without effecting in any manner out of obligation hereunder to vary any of the terms and conditions of the said contract from time to time or to postpone for any time or from time to time any to power exercisable by the Employer against the said contractor and to forbear or enforce any of the terms and conditions of the said agreement and we shall not be relieved from our liabilities by reason of such variation, or extension being granted to the said contractor for any forbearance act or omission on the part of the Employer or any indulgence by the Employer to the said contractor or by any such matter or thing whatsoever which under the law relating to sureties for the said reservation would relieve us from the liability.

The Guarantee hereinbefore contained shall not be affected by any change in the constitution of Bank or of the Contractor.

The expression “The Employer”, “The Bank” and “The Contractor” hereinbefore used shall include their respective successors and assigns.

We -----(name of the bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing. Notwithstanding anything to the contrary contained hereinbefore:

- i) Our liability under this Bank Guarantee shall not exceed and restricted to Rs. ----  
----- (in words).

- ii) This Bank Guarantee shall be valid up to -----, unless extended on demand by Employer.
- iii) The Bank is liable to pay the Guaranteed amount or any part thereof under this Bank Guarantee only if Employer serve a written claim or demand on or before-----  
-----

IN WITNESS WHEREOF we of the Bank have signed and stamped  
this guarantee on this day of -----being herewith duly authorized.

Bank Seal

Signature of Bank Authorize Official with Seal

Name :.....  
Designation:.....  
Address :

Witness:

1. Name ..... Designation  
:.....  
Address :
2. Name :.....  
Designation:..... Address  
:.....

**ANNEXURE-F****FORM OF AGREEMENT**

(To be executed on requisite value of stamp Papers)

**AGREEMENT****THIS AGREEMENT made on \_\_\_\_\_ day of \_\_\_\_\_ (Month/year) between,****DFCCIL , \_\_\_\_\_ (address).** (Herein after called “the Employer/ Engineer”) of the one part and \_\_\_\_\_

(name and address of the Contractor) (herein after called “the Contractor”) of the other part.

WHEREAS the Employer is desirous that certain works should be executed by the Contractor viz. **Contract No.** \_\_\_\_\_ (hereinafter called “the works, and has accepted a Bid by the Contractor for the execution and completion of such works and the remedying of any defects therein.**NOW THIS AGREEMENT WITNESSETH as follows:**

1.0 In this Agreement, words and expressions shall have the same meaning as are respectively assigned to them in the Conditions of Contract hereinafter referred to.

The following documents shall be deemed to form and be read and construed as part of this Agreement: -

- i) The Contract Agreement.
- ii) Letter of Acceptance.
- iii) Form of bid
- iv) General Information
- v) Notice Inviting Tender ( with Annexes )
- vi) Instructions to Tenderers
- vii) Special Conditions of Contract
- viii) Annexures
- ix) Bill of Quantities (BOQ)
- x) General Conditions of Contract

3.0 In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the works and remedy any defects therein in conformity in all respects with the provisions of the Contract.

4.0 The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the works and the remedying of defects therein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement executed the day and year first before written.

(Name, Designation and address of the authorized signatory)	(Name, Designation and address of the authorized signatory)
Signed for and on behalf of the Contractor in the presence of:	Signed for and on behalf of the Employer in the presence of:
<i>Witness:</i>	<i>Witness:</i>
1.	1.
2.	2.

Name and address of the witnesses to be indicate.



**Annexure -G****PRE CONTRACT INTEGRITY PACT****General**

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on..... day of the month of----- 20xx, between, on one hand, the DFCCIL acting through Shri ----- Designation of the officer, (hereinafter called the CLIENT, which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and M/s----- represented by Shri -----Chief Executive Officer (hereinafter called the "BIDDER/SELLER" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second part.

WHEREAS the CLIENT proposes to procure (Name of the Stores/Equipment/Item, Name of the Consultancy Service, Name of Works Contract, Name of Services) and the [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 or behalf of the President of India.

NOW, THEREFOR,

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

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

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure [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**

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 implementationprocess related to the [B].

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.

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 official(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.

### **Commitments of BIDDERS**

3. 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:-

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].

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 disfavor to any person in relation to the [B] or any other [B] with the Government.

\* [A] shall disclose the name and address of agents and representatives and Indian [A] shall disclose their foreign principals or associates.

\* [A] shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.

The [A] further confirms and declares to the CLIENT that the [A] is the original manufacturer/integrator/authorized government sponsored export entity of the defense stores and has not engaged any individual or firm or company whether

Indian or foreign to intercede, facilitate or in any way to recommend to the CLIENT or any of its functionaries, whether officially or unofficially to the award of the [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.

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.

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].

The [A] will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

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.

The [A] commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

The [A] shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.

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.

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**

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 from the tender process.

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)**

While submitting commercial bid, the [A] shall deposit an amount Rs ...(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 favor 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 of payment.
- iii. Any other mode or through any other instrument (to be specified in the RFP). Latest financial instrument as per DFCCIL list will be binding for EMD.

The earnest money/Security deposit shall be valid up to a period of six months beyond contract completion date or the contractual obligations to the complete satisfaction of both the BIDDER and the CLIENT, including warranty period, whichever is later.

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 client to forfeit the same without assigning any reason for imposing sanction for violation of this pact.

No interest shall be payable by CLIENT to the [A] on earnest Money/Security Deposit for the period of its currency.

## **6. Sanctions for Violations**

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 [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, if furnished by the [A], in order to recover the payments, already made by CLIENT, along with interest.
- (vi) To cancel all or any other contracts with the [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 so payable 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.

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.

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/system or sub systems were supplied by [A] to any other Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case

and the difference in the cost would be refunded by the [A] to the CLIENT, if the [B] has already been concluded.

## 8. **Independent Monitors**

The CLIENT has appointed Independent Monitors (hereinafter referred to as Monitors) for this pact in consultant with the central vigilance commission (Names and addresses of the Monitors to be given) 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.

The monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.

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

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.

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.

The monitor will submit a written report to the MD/DFCCIL within 8 to 10 weeks from the date of reference or intimation to him by the CLIENT/BIDDER and, should the occasion arise, submit proposal for correcting problematic situations.

## 9. **Facilitation of Investigation**

In case of any allegation of violation of any provisions of this Pact or payment of commission, the CLIENT or its agencies shall be entitled to examine all the documents including the Books of Accounts of the [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**

The validity of this integrity pact shall be from date of its signing and extend upto 1 years or the complete execution of the [B] to the satisfaction of both the CLIENT and the [A] including warranty period, whichever is Should one or several provisions of this pact turn out to be invalid; the remainder of this pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

13. The parties hereby sign this integrity pact at .....on  
.....

CLIENT  
Name of the officer  
OFFICER  
Designation  
Deptt./Ministry/PSU

BIDDER  
CHIEF EXECUTIVE

Witness

witness

1. .... 2. ....

Note:

[A]- To be replaced by BIDDER/Seller/Consultant/Consultancy firm/Service provider as the case may be

[B]- To be replaced by contract/supply contract/consultancy contract/works contract as the case may be

(Rly Bd's L.No. 202/CE-I/CT/3E/GCC/Policy Dated 30.12.2020)

**Annexure-H****BID SECURITY DECLARATION**

(Applicable in case..... of Para..... STD )

I/We..... (Name of bidder)  
 am/are aware that I/we..... have been exempted from submission of Bid  
 Security/ Earnest Money deposit in lieu of this Bid Security Declaration.  
 I/we..... understand and accept that if I/We withdraw my/our bid within  
 bid validity period or if awarded the tender and on being called upon to submit the Performance Guarantee/  
 Performance Security fail to submit the same within the stipulated time period mentioned in tender  
 documents or on being called upon to sign the contract agreement fail to sign the same within stipulated  
 period mentioned in tender documents,

I/ We.....i.e., the bidder shall be banned from submission of bids in any  
 Works/ Service Tender issued by DFCCILs for a period of 12 months from the date of such banning done on  
 e-platform IREPS.

If the bidder is banned for submission of bids on the date of closing of tender, such bid, even if received,  
 shall be treated as invalid while evaluating the bids.

Signature of Tenderer/s

Note :-

1.0 The bid security/ Earnest Money for the tender is NIL .

2.0 This is submitted in lieu of Bid Security Deposit/ Earnest Money for the particular tender.



## **(PART - 2)**

### **FINANCIAL OFFER**

**SCHEDULE OF RATES**

**Maintenance of 2x25 KV High Rise Overhead equipment along with Power Supply Installation maintenance on Madar-Iqbalgadh section of DFCCIL including IR connecting lines for a period of 12 Months under CGM Ajmer.**

**Schedule 1: HIGH RISE OHE Maintenance Activity****Part A - Regular Maintenance Activity**

<b>S.No</b>	<b>Description of Work</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate (Rs)</b>	<b>Total Amount (Rs.)</b>
<b>1</b>	<b>Checking and Maintenance of Cantilever assembly</b>	Each	8186	754	6172244
<b>2</b>	<b>Checking and maintenance of 25 kV HIGH RISE OHE conductors</b>	TKM	740	4823	3569020
<b>3</b>	<b>Checking &amp; maintenance of all type of 25 KV HIGH RISE OHE Jumpers</b>	Each	810	441	357210
<b>4</b>	<b>Checking &amp; maintenance of Overlaps (IOL) &amp; (UIOL)</b>	Each	700	1608	1125600
<b>5</b>	<b>Checking &amp; Maintenance of Anti Creep arrangement</b>	Each	357	1206	430542
<b>6</b>	<b>Checking &amp; Maintenance of 25 KV Isolator (SP/DP) including earthing heel arrangement if any</b>	Each	15	1290	19350
<b>7</b>	<b>Checking &amp; Maintenance of 25 KV HIGH RISE OHE at Turnouts</b>	Each	15	1237	18555
<b>8</b>	<b>Checking &amp; Maintenance of 25 KV HIGH RISE OHE on a cross over</b>	Each	114	2472	281808
<b>9</b>	<b>Checking &amp; Maintenance of Section Insulator Assembly</b>	Each	50	1237	61850
<b>10</b>	<b>Checking &amp; Maintenance of Auto tension Device (ATD)</b>	Each	837	2612	2186244
<b>11</b>	<b>Checking &amp; Maintenance of Aerial earth wire, Feeder wire &amp; Feeder Termination / Fixed Anchor Termination</b>	Km	370	10	3700
<b>12</b>	<b>Foot patrolling to be carried out along with schedule with one DFCCIL staff</b>	TKM	740	144	106560
<b>13</b>	<b>Checking &amp; maintenance of all type of bonds including cleaning of muffs at HIGH RISE OHE mast (Structure/longitudinal/transverse bonds &amp; earth electrode)</b>	Each	1817	29	52693

14	Removal of & Re erection of bonds of various type during track machine working or Erection of missing/new bonds Paint etc. supplied by DFC)	Each	909	75	68175
15	Checking & Maintenance of all additional Insulators	Each	1000	344	344000
16	Checking & maintenance of leaning of HIGH RISE OHE mast till a new mast erected	Each	30	3439	103170
17	Checking & Maintenance of PTFE type neutral section (Quarterly)	Each	96	5243	503328
18	Checking and Maintenance of Portal boom drop arms and fabricated Masts free from bird nests	Each	200	384	76800
19	Trimming of tree branches	Each	400	26	10400
20	Manning and housekeeping in the IMD/IMSD	Man days	1460	649	947540
21	Erection of 25 KV over head equipment as per requirement	per TKM	10	41734	417340
<b>Schedule 1 - Total Part A</b>					<b>16856129</b>
<b>Part B -Emergency &amp; other maintenance activities</b>					
S.No	Description of Work	Unit	Qty.	Rate (Rs)	Total Amount (Rs.)
01	Loading, unloading of DFCCIL supplied material to places directed by Engineer in charge (i.e. From station to tower wagon, station to station etc.)	Each occasion	100	3895	389500
02	Erection of Catenary wire splicing or Contact wire splicing.	Each	50	3009	150450
03	Replacement / Re-erection of various types of insulators	Each	200	860	172000
04	Breakdown attention by a gang for restoration of 25 KV HIGH RISE OHE during accidents/ unusual occurrence for checking HIGH RISE OHE parameters- (one gang consisting of 7 staff)	Hour	150	1525	228750

05	Erection of traction masts & portal other than boom	Nos.	30	2843	85290
	Schedule 1 - Total Part B				1025990
Part C - Foundation item					
S.No	Description of Work	Unit	Qty.	Rate (Rs)	Total Amount (Rs.)
01	Casting of all types of foundation (The rate includes supply of the material-ballast, sand, cement, mixture & reinforcement etc.)	CuM	350	7185	2514750
	Schedule 1 - Total Part C				2514750
	Schedule 1 - Grand Total				20396869
Schedule 2: PSI Maintenance Activity					
Part A TSS & SP/SSP maintenance					
S.No	Description of Work	Unit	Qty.	Rate (Rs)	Total Amount (Rs.)
1	Monthly Bay Maintenance of Traction Substations	Each	144	5251	756144
2	Half yearly Bay Maintenance of Traction Substations	Each	24	8079	193896
3	Yearly Bay Maintenance of Traction Substations	Each	12	10701	128412
4	Half yearly 25 KV bay Isolator maintenance	Each	24	11655	279720
5	Half yearly maintenance of Feeding post gantry TSS and associated equipments.	Each	12	15200	182400
6	Quarterly Maintenance of 25 KV bay equipments other than isolators and maintenance of feeding post CB in TSS.	Each	96	12385	1188960
7	Half yearly maintenance of Earthing station in TTS/SP/SSP	Each	1301	140	182140
8	Monthly panel maintenance in TSS/SP/SSP	Each	288	2625	756000

9	Fortnightly battery & battery charger maintenance of TSS	Each	288	1679	483552
10	Quarterly maintenance of CB in SP/SSP.	Each	976	2988	2916288
11	Fortnightly maintenance of battery & battery charger at SP/SSP and yard cleaning.	Each	238	1206	287028
12	Half yearly gantry maintenance of SP/SSP	Each	20	10501	210020
13	Quarterly maintenance of AT (Auxiliary transformer) at TSS/SP/SSP and HIGH RISE OHE at stations & open section	Each	816	861	702576
Schedule 2 -Total Part A					<b>8267136</b>
<b>Part B -Emergency &amp; other maintenance activity</b>					
S.No	Description of Work	Unit	Qty.	Rate (Rs)	Total Amount (Rs.)
14	Maintenance of 25 KV dropout fuse AT TSS/SP/SSP and HIGH RISE OHE at stations & open section	Nos	816	945	771120
15	Breakdown attention of PSI equipment	Per hour	120	564	67680
16	Removal and re erection of PSI equipment	Each	14	5251	73514
Schedule 2 -Total Part B					<b>912314</b>
<b>Part C -TSS Manning &amp; House keeping</b>					
S.No	Description of Work	Unit	Qty.	Rate (Rs)	Total Amount (Rs.)
17	Regular House Keeping of TSS	Man day	730	649	473770
18	Manning of TSS	Man day	730	2836	2070280
Schedule 2 - Total Part C					<b>2544050</b>
<b>Part D - Transformer oil testing by Accredited agency</b>					
S.No	Description of Work	Unit	Qty.	Rate (Rs)	Total Amount (Rs.)

<b>19</b>	<b>Transformer oil Testing</b>	<b>Occasion</b>	<b>6</b>	<b>21759</b>	<b>130554</b>
	<b>Schedule 2 - Total Part D</b>				<b>130554</b>
	<b>Schedule 2 - Grand Total</b>				<b>11854054</b>
<b>Total of Schedule 1 of HIGH RISE OHE maintenance activity for 12 months</b>					<b>20396869</b>
<b>Total of Schedule 2 of PSI maintenance activity for 12 months</b>					<b>11854054</b>
<b>Grand Total of Schedule 1 &amp; 2 for 12 months for HIGH RISE OHE&amp; PSI</b>					<b>32250923</b>
<b>Total estimated value is Rs.3,22,50,923.00 (Rs. Three Crore Twenty Two Lakh Fifty Thousand Nine Hundred and Twenty Three only). GST as applicables shall be paid extra</b>					
<b>Note: Every month is taken as 30 days</b>					

**Estimated Cost–Rs. 3,22,50,923.00 Only.**

**Signature of tenderer with seal**

<b>Offer sheet</b>			
<b>Offer to be filled by tenderer(s) in below table</b>			
<b>Maintenance of 2x25 KV High Rise Overhead equipment along with Power Supply Installation maintenance on Madar-Iqbalgadh section of DFCCIL including IR connecting lines for a period of 12 Months under CGM Ajmer.</b>			
<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>	
<b>S.N.</b>	<b>Description of Work</b>	<b>Estimated Rate</b>	
<b>1</b>	<b>Schedule 1: HIGH RISE OHE Maintenance Activity</b>		
A	Part A - Regular Maintenance Activity	<b>16856129</b>	
B	Part B -Emergency & other maintenance activities	<b>1025990</b>	
C	Part C - Foundation item	<b>2514750</b>	
<b>2</b>	<b>Schedule 2: PSI Maintenance Activity</b>		
A	Part A - TSS & SP/SSP maintenance	<b>8267136</b>	
B	Part B -Emergency & other maintenance activity	<b>912314</b>	
C	Part C -TSS Manning & House keeping	<b>2544050</b>	
D	Part D - Transformer oil testing by (NABL certified) Accredited agency	<b>130554</b>	
	<b>Total</b>	<b>32250923.00</b>	
<b>Note : 1. Offered rate shall be quoted under this table in % below, above &amp; at par in figures as well as in words.</b> <b>2. GST as applicable shall be paid extra as per actual on production of challans by contractor.</b>			

**Quoting of rates**

Rate will be ..... % ( Percentage) below/above/ at par (to be filled by the bidder in figure).

Rate will be ..... (Percentage) below/above/at par (to be filled by the bidder in words).

**I/We offer and agree to execute the above work at rate uploaded online at [www.ireps.gov.in](http://www.ireps.gov.in) through digital Signature.**

**Signature of tenderer with seal**

**(END OF THE DOCUMENT)**