



Name of Work: “Maintenance of 2 x 25KV Power Supply Installations on Madar- Iqbalgarh section of DFCCIL Ajmer unit, for a period of 24 months.

**Single Packet
OPEN E-TENDER**

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

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

INDEX

Tender No.: AII-EL-MD-IQB-PSI-22-T-08

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Note:-

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

Instructions to Bidders For Online Bidding& Check List

PART-I

A. Instructions to bidders for online bidding

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

Instructions:-

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

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

For integrity of data and its authenticity/ non repudiation of electronic records and to be compliant with IT Act 2000, it is necessary for each user to have a Digital Certificate (DC) also referred to as Digital Signature Certificate (DSC) of class III issued by a Certifying Authority (CA) licensed by Controller of Certifying Authority (CCA) (refer <http://www.cca.gov.in>).
- 4.** The Tender documents can be downloaded from the website: ireps.gov.in and to be submitted in the e - format, before the schedule date & time of submission of the tender otherwise the Bid will not be considered.
- 5.** Physical copy of the tender documents would not be sold/accepted.

6. List of Contact persons for this tender details of DFCCIL:

DFCCIL Contact- 1	Sh. Chit Ranjan Kumar
Telephone/Mobile No.	8824912194
E-mail ID	cranjan@dfcc.co.in
DFCCIL Contact- 2	Sh. Manish Kumar Vijay
Telephone/Mobile No.	9001091306
E-mail ID	mkvijay@dfcc.co.in
DFCCIL Contact- 3	Sh. Brij Raj
Telephone/Mobile No.	9001045815
E-mail ID	brijraj@dfcc.co.in

7. **Modification / Withdrawal of bids:**

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

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

9. **Other instructions**

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

B. Check list for Mandatory Annexures:-

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

- 10.1** Annexure I (Firm Details), Annexure II (Tender Certificate), Annexure IV-A/IV-B/IV-C (Completion Certificate), Annexure VIII (CA certificate on letterhead), Annexure XXIII (Information regarding Railway/DFC/Gazetted Employee) and any other Annexures as applicable.
- 10.2** In addition to above following documents are also mandatory as applicable.
Annexures as per Clause 16.2 of General Instruction to Tenderers (As applicable)
- 10.2.1 For Sole Proprietorship Firm:** Annexure IX & Annexure XIV and also other documents as applicable as para 16.2.1
- 10.2.2 For HUF Firm:** Annexure XXIX & Annexure XXX as and also other documents as applicable as para 16.2.2
- 10.2.3 For partnership Firm:** Annexure XIII (Annexure XXXI if newly formed partnership firm; Annexure XXXII for existing partnership firm and also other documents as applicable as para 16.2.3
- 10.2.4 For Companies registered under Companies Act 2013:** Annexure XV; Annexure XXXIII; and also other documents as applicable as para 16.2.4
- 10.2.5 For LLP Firm registered under LLP Act 2008:** Annexure XXI; Annexure XXV; Annexure XXXI; Annexure XXXII and also other documents as applicable as para 16.2.5
- 10.2.6 For registered Society & Registered Trust:** Annexure XXII and also other documents as applicable as para 16.2.6
- 10.2.7 For JV Firm:** Applicable for Tender value more than 10Cr (Please refer para 16.2.7)
- 10.2.7.1 Sole Proprietorship firm participating as member of JV –** Annexure-I & XII and also other documents as applicable as para 16.2.7.1.
- 10.2.7.2 HUF (Hindu Undivided Family) participating as member of JV –** Annexure-XXIX & XII also other documents as applicable as para 16.2.7.2
- 10.2.7.3 Partnership Firm participating as member of JV-** Annexure – XI & XVIII also other documents as applicable as para 16.2.7.3
- 10.2.7.4 Company Participating as member of JV –** Annexure – XII & XVII also other documents as applicable as para 16.2.7.4
- 10.2.7.5 LLP Firm participating as member of JV-**documents as applicable as para 16.2.7.5

GENERAL INFORMATION / DATA SHEET

PART - II
GENERAL INFORMATION/DATA SHEET

Tender Notice No.	AII-EL-MD-IQB-PSI-22-T-08
Name of the work	“Maintenance of 2 x 25KV Power Supply Installations on Madar- Iqbalgarh section of DFCCIL Ajmer unit, for a period of 24 (Twenty-Four) months.
a) Tender Value	Rs. 6,98,47,673.58 (Rupees Six Crore Ninety Eight Lakh Forty Seven Thousand Six Hundred Seventy Three and Fifty Eight Only) including GST.
b) Completion Period	24 Months
c) Type of Bid	Single packet.
d) Earnest Money	Rs. 4,99,200.00/-
e) Last Date and Time of Downloading of Tender from website ireps.gov.in and www.dfccil.com	15:00 Hrs. of 15.02.2023
f) Last date and Time of online submission of Tender on website ireps.gov.in	15:00 Hrs. of 15.02.2023
g) Date and Time of Opening of Tender	15:30 Hrs. of 15.02.2023
h) Validity of offer	45 Days

NOTE:

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

GENERAL INSTRUCTION TO TENDERERS

PART-III
GENERAL INSTRUCTIONS

1.0	For the purpose of this tender in DFCCIL, stipulations and conditions as specified in Indian Railways Standard General Conditions of Contract slips (will be referred as GCC- 2022 in the document) as amended/corrected up to latest correction will be applicable, copies of which can be seen in the office of CGM/GM/Co-ord., DFCCIL, Ajmer.
1.1	<p>DEFINITIONS AND INTERPRETATION</p> <p>(A) Definition: - In these General conditions of Contract, the following terms shall have the meaning assigned hereunder except where the context otherwise requires: -</p> <ol style="list-style-type: none"> 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. "Engineer" and Employer's Engineer shall mean the Chief General Manager/General Manager-Co of DFCCIL appointed by DFCCIL. c. "Engineer's Representative" shall mean the JPM /APM / PM / Dy. CPM / Add. CPM of DFCCIL in direct charge of the work and shall include any Jr. Executive /Executive/Sr. Executive, JPM/APM/PM /Dy.CPM/CPM/GM of DFCCIL of Civil Engineering / Signal & Telecommunication Engineering / Electrical Engineering Department appointed by the DFCCIL and shall mean and include the Engineer's Representative of the successor DFCCIL. d. "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. e. "Contract" shall mean and include the Agreement of Work Order, the accepted schedule of rates of the Schedule or Rates of DFCCIL modified by the tender percentage for items of work quantified, or not quantified, General Conditions of Contract, Special Conditions of Contracts, if any, Drawings, Specifications, Additional / Special Specifications, if any and tender forms, if any, and all other documents included as part of contract. f. "Works" shall mean the works to be executed in accordance with the contract. g. "Specifications" shall mean the Specifications for materials and works referred / mentioned in tender documents. h. "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. i. "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. j. "Constructional Plan" shall mean all appliances or things of whatsoever

	<p>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.</p> <p>k. "Temporary Works" shall mean all temporary works of every kind required for the execution completion and/or maintenance of the works.</p> <p>l. "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> <p>m. "Period of Maintenance" shall mean the defect liability period from the date of completion of the works as certified by the Engineer.</p> <p>(B) Singular and Plural:- Words importing the singular number shall also include the plural and vice versa where the context requires.</p> <p>(C) Headings & marginal headings:-The headings and marginal headings in these general conditions are solely for the purpose of facilitating reference and shall not be deemed to be part thereof or be taken into consideration in the interpretation or construction thereof or the contract.</p>
1.2	IR specifications/Guidelines updated with correction slips, relevant BIS codes updated with correction slips. General Conditions of Contract-2022 and Standard Specifications as laid down in the Indian Railways Unified Standard Specifications (Works and Material) -2010 in the document as amended/corrected up to latest correction will be applicable, copies of which can be seen in the office of CGM, DFCCIL, Ajmer.
1.3	All general and detailed drawings pertaining to this work which will be issued by the Engineer or his representatives (from time to time) with all changes and modifications.
2.0	<p>Drawings for the Work: The Drawing for the work can be seen in the office of CGM, DFCCIL, Ajmer, at any time during the office hours. The drawings are only for the guidance of Tenderer(s). Detailed working drawings (if required) based generally on the drawing mentioned above, will be given by the Engineer or his representative from time to time.</p> <p>As per Clause No. 2 of tender form 2nd sheet Annex.I Part-I of GCC APRIL-2022, with up to date correction slip</p>
3.0	<p>Tender Form: Tender Forms shall embodies the contents of the contract documents either directly or by reference, e-Tender Forms shall be issued free of cost to all tenderers.</p> <p>As per Clause No.3 of Part-I of GCC APRIL-2022 , with up to date correction slip</p>
3.1	<p>Date of inviting tender shall be the date of publishing tender notice on IREPS website if tender is published on website or the date of publication in newspaper in case tender is not published on website.</p> <p>As per Clause No. 1.2 (n) of Part-I of GCC APRIL-2022 , with up to date correction slip</p>

3.2	<p>The Tenderer(s) shall quote his / their rates as a percentage above or below the Schedule of Rates of DFCCIL except where he/they are required to quote item rates and must tender for all the items shown in the Schedule of approximate quantities attached. The quantities shown in the attached Schedule are given as a guide and are approximate only and are subject to variation according to the needs of the DFCCIL. The DFCCIL does not guarantee work under each item of the Schedule. The tenderer(s) shall quote rates / rebates only at specified place in Tender Form supplied by DFCCIL. Any revision of rates / rebates submitted (quoted) through a separate letter whether enclosed with the bid (Tender Form) or submitted separately or mentioned elsewhere in the document other than specified place shall be summarily ignored and will not be considered.</p> <p>As per Clause No. 3 of tender form 2ndsheet Annex. I Part-I of GCC APRIL-2022, with up to date correction slip.</p>
4.0	<p>Tenders containing erasures and / or alterations of tender documents are liable to be rejected. Any correction made by tenderer(s) in his/their entries must be attested by him / them.</p> <p>As per Clause No. 4 of tender form 2ndsheet Annex. I Part-I of GCC APRIL-2022 , with up to date correction slip</p>
5.0	<u>EARNEST MONEY</u>
5.1	For the subject tender, the Earnest Money deposit shall be Rs. 4,99,200/- and shall be governed by Para 5.1.1/ 5.1.2/5.1.3 below.

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

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

sign and incur obligations for and on behalf of the Bank, confirm that the Bank, hereby, unconditionally and irrevocably guarantee to pay to the CPM DFCCIL Ajmer full amount in the sum of **[Insert required Value of Bid Security] as above stated.**

2. The Bank undertakes to immediately pay on presentation of demand by the DFCCIL any amount up to and including aforementioned full amount without any demur, reservation or recourse. Any such demand made by the DFCCIL on the Bank shall be final, conclusive and binding, absolute and unequivocal on the Bank notwithstanding any disputes raised/ pending before any Court, Tribunal, Arbitration or any Authority or any threatened litigation by the Bidder or Bank.

3. The Bank shall pay the amount as demanded immediately on presentation of the demand by DFCCIL without any reference to the Bidder and without the DFCCIL being required to show grounds or give reasons for its demand of the amount so demanded.

4. The guarantee hereinbefore shall not be affected by any change in the constitution of the Bank or in the constitution of the Bidder.

5. The Bank agrees that no change, addition, modifications to the terms of the Bid document or to any documents, which have been or may be made between the DFCCIL and the Bidder, will in any way absolve the Bank from the liability under this guarantee; and the Bank, hereby, waives any requirement for notice of any such change, addition or modification made by DFCCIL at any time.

6. This guarantee will remain valid and effective from.....**[insert date of issue]** till **[insert date, which should be minimum 90 days beyond the expiry of validity of Bid]**. Any demand in respect of this Guarantee should reach the Bank within the validity period of Bid Security.

7. The Bank Guarantee is unconditional and irrevocable.

8. The expressions Bank and DFCCIL herein before used shall include their respective successors and assigns.

9. The Bank hereby undertakes not to revoke the guarantee during its currency, except with the previous consent in writing of the DFCCIL. This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No.758.

10. The Bank hereby confirms that it is on the SFMS (Structured Financial Messaging System) and shall invariably send the advice of this Bank Guarantee to the following bank details –

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

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

Date

Place.....

Bank's Seal and authorized signature(s)
[Name in Block letters]
[Designation with Code

No.].....

	<p>[P/Attorney] No.</p> <p>Witness: 1 Signature, Name & Address & Seal 2 Signature, Name & address & Seal</p> <p>Bank's Seal [P/Attorney]No.</p> <p>Note: 1. All italicized text is for guidance on how to prepare this bank guarantee and shall be deleted from the final document. <i>2. This bank detail only use for submission of Bid Security in the form of Bank Guarantee.</i></p>
6.0	<p>Rights of the DFCCIL to deal with Tender: The authority for the acceptance of the tender will rest with the DFCCIL. It shall not be obligatory on the said authority to accept the lowest tender or any other tender, and tenderer(s) shall neither demand any explanation for the cause of rejection of his/ their tender nor the DFCCIL to assign reasons for declining to consider or reject any particular tender or tenders.</p> <p>As per Clause No. 7 of Tender Form (second sheet) Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
6.1	<p>If the tenderer(s) deliberately gives / give wrong information in his / their tender or creates / create circumstances for the acceptance of his / their tender, the DFCCIL reserves the right to reject such tender at any stage.</p> <p>As per Clause No. 8 of Tender Form (second sheet) Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
6.2	<p>If the tenderer(s) expire(s) after the submission of his / their tender or after the acceptance of his / their offer, the DFCCIL shall deem such tender cancelled. If a partner of a firm expires after the submission of their tender or after the acceptance of their tender, the DFCCIL shall deem such tender as cancelled, unless the firm retains its character.</p> <p>As per Clause No. 9 of Tender Form (second sheet) Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
7.0	<u>SYSTEM OF TENDERING</u>
7.1	<p>Two Packets System of Tendering: With a view to assess the tenders technically without being influenced by the financial bids, 'Two Packets System of tendering' shall be adopted for contract valuing more than Rs. 10 crores or as advised by DFCCIL Board time to time by updated policy guide lines.</p> <p>For Works and Service tenders of value more than Rs. 50 Cr., the Clause no. 26.0 of Electronic Reverse Auction will be applicable</p> <p>As per (a) Clause No. 7A of Part-I of GCC APRIL-2022, with up to date correction slip</p>
7.2	<p>Single Packet Tender:- In case of tenders costing less than Rs. 10 Crore single packet tender system will be followed and technical & financial offer of the tenderer/s shall be opened and evaluated at the same time.</p>
7.3	Tenderer should submit the offer with due diligence after going through the tender

	documents.
7.4	Pre Bid Conference: In tenders having advertised value more than Rs. 50 Crore or as mentioned in the tender document, DFCCIL shall conduct Pre Bid Conference(s) with the prospective bidders. (Not Applicable in this Tender)
7.5	Make in India: - Provisions of Make in India Policy 2017 issued by Govt. of India, as amended from time to time, shall be followed for consideration of tenders. As per Clause No. 7B of Part-I of GCC APRIL-2022, with up to date correction slip
7.6	Permission to Bid for a bidder from a country which shares Land boundary with India: Any bidder from the countries sharing a land border with India will be eligible to bid in any procurement of works (including turnkey projects) only if the bidder is registered with the Competent Authority. The Competent Authority for registration will be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT), Government of India. For interpretation of this para, Department of Expenditure, Ministry of Finance, Government of India letter F.No.6/18/2019-PPD dated 23/07/2020 shall be referred.
7.7	Clarification of Bids: To assist in the examination, evaluation & comparison and prequalification of the Tender, the DFCCIL may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to a request by the DFCCIL shall not be entertained or considered. The Railway request for clarification and the response of the bidder in this regard shall be in writing.
8.0	Execution of Contract Document: The tenderer whose tender is accepted shall be required to appear in person at the office of CGM/GM-Co, DFCCIL, Ajmer, as the case may be, or if tenderer is a firm or corporation, a duly authorized representative shall appear and execute the contract agreement within seven days of notice from DFCCIL that the Contract Agreement is ready. The Contract Agreement shall be entered into by DFCCIL only after submission of valid Performance Guarantee by the Contractor. Failure to do so shall constitute a breach of the agreement affected by the acceptance of the tender. In such cases the DFCCIL may determine that such tenderer has abandoned the contract and there upon his tender and acceptance thereof shall be treated as cancelled and the DFCCIL shall be entitled to forfeit the full amount of the Earnest Money and other dues payable to the Contractor under this contract. The failed Contractor shall be debarred from participating in the re-tender for that work. As per clause No. 8 of Part-I of GCC APRIL-2022 , with up to date correction slip
8.1	In case, the particular work is charged to EBR (IF), than the Indian Railway Finance Corporation (IRFC) shall also be the party in the contract agreement. After submission of valid performance guarantee, the contract agreement shall be entered into between Indian Railways (IR), Indian Railways Finance Corporation (IRFC) and the tenderer, whose tender is accepted. The Contract Agreement shall be signed as per Annexure XXVIII of the STD. The format at Annexure IV of GCC

	<p>APRIL-2022 shall not be applicable for Contract Agreement of EBR (IF) funded contracts.</p> <p>As per Railway Board's letters no 2018/AC-II/1/57(pt.) dated 20.03.20 for EBR (IF) funded contracts</p>
9.0	<p>Documents to be Submitted Along with Tender</p> <p>(i)The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / HUF/Company / Joint Venture (JV) / Registered Society / Registered Trust / LLP etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, authorized signatory and copy of PAN Card along with their tender as per proforma given in Annexure I (mandatory). Tender shall be submitted and signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be.</p> <p>(ii)The various documents to be submitted by the tenderer are as per clause 14 (ii) of the GCC APRIL-2022, the tenderer shall ensure submission of mandatory document as listed in para 16 below along with the offer.</p> <p>(iii)If it is NOT mentioned in the submitted tender that tender is being submitted on behalf of a Sole Proprietorship firm / Partnership firm / Joint Venture / Registered Company etc., then the tender shall be treated as having been submitted by the individual who has signed the tender.</p> <p>(iv)After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm / Partnership Firm / Registered Company/ Registered Trust / Registered Society / HUF etc. shall be neither asked nor considered, if not submitted. Further, no suo moto cognizance of any document available in public domain (i.e., on internet etc.) or in Railway/DFCCIL's record/office files etc. will be taken for consideration of the tender, if no such mention is available in tender offer submitted.</p> <p>(v) A tender from JV / Partnership firm etc. shall be considered only where permissible as per the tender conditions.</p> <p>(vi)The DFCCIL will not be bound by any change in the composition of the firm made subsequent to the submission of tender. DFCCIL may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.</p> <p>As per Clause No. 14 of Tender Form (second sheet) Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
10.0	<p>The tenderer whether sole proprietor/ HUF/ Company or a partnership firm / LLP / joint venture (JV) / registered society / registered trust etc. if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person specifically authorizing him/them to submit the tender, sign the agreement, receive money, co-ordinate measurements through</p>

	<p>contractor's authorized engineer, witness measurements, sign measurement books, compromise, settle, relinquish any claim(s) preferred by the firm and sign "No Claim Certificate" and refer all or any disputes to arbitration. The above power of attorney shall be submitted even if such specific person is authorized for above purposes through partnership deed / Memorandum of Understanding / Article of Association or such other document, failing which tender is liable to be rejected.</p> <p>As per Clause No. 15 of Tender Form (second sheet) Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
11.0	<p>Employment/Partnership etc. of Retired Railway/DFCCIL Employees:</p> <p>(a) Should a tenderer</p>
	<p>i) be a retired Engineer of the Gazetted rank or any other Gazetted officer working before his retirement, whether in the executive or administrative capacity or whether holding a pensionable post or not, in the Engineering or any other department of any of the Railways/DFCCIL owned and administered by the President of India for the time being, OR ii) being partnership firm / joint venture (JV) / registered society / registered trust etc have as one of its partners a retired Engineer of the Gazetted rank or any other Gazetted officer working before his retirement, OR iii) being an incorporated company have any such retired Engineer of the Gazetted rank or any other Gazetted officer working before his retirement as one of its directors</p> <p style="text-align: center;">AND</p> <p>in case where such Engineer or officer had not retired from government service at least 1 year prior to the date of submission of the tender</p> <p style="text-align: center;">THEN</p> <p>the tenderer will give full information as to the date of retirement of such Engineer or gazetted officer from the said service and as to whether permission for taking such contract, or if the Contractor be a partnership firm or an incorporated company, to become a partner or director as the case may be, has been obtained by the tenderer or the Engineer or officer, as the case may be from the President of India or any officer, duly authorized by him in this behalf, shall be clearly stated in writing at the time of submitting the tender.</p> <p>b) In case, upon successful award of contract, should a tenderer depute for execution of the works under or to deal matters related with this contract, any retired Engineer of gazette rank or retired gazetted officer working before his retirement in the Engineering or any other department of any of the Railways/DFCCIL owned and administered by the President of India for the time being, and now in his employment, then the tenderer will ensure that retired Engineer or retired gazetted officer had retired from government service at least 1 year prior to the date of his employment with tenderer and in case he had retired from service within a year then he possesses the requisite permission from the President of India or any officer, duly authorized by him in this behalf, to</p>

	<p>get associated with the tenderer.</p> <p>(c) Should a tenderer or Contractor being an individual on the list of approved Contractors, have a relative(s) or in the case of proprietorship firm/ partnership firm/ company / joint venture (JV) / registered society / registered trust/ LLP/ HUF etc. one or more of his partner(s)/shareholder(s) or member(s) of the family of partner(s)/shareholder(s) having share of more than 1% in the tendering entity employed in gazetted capacity in one or more of his shareholder(s) or a relative(s) of the shareholder(s) employed in gazetted capacity in the Engineering or any other department of the Railways/DFCCIL, the authority inviting tenders shall be informed of the fact at the time of submission of tender, failing which the tender may be disqualified/rejected or if such fact subsequently comes to light, the contract may be rescinded in accordance with provision in clause 62 of standard general conditions of contract.</p> <p>Note:-If information as required as per 11 (a), (b), (c) above has not been furnished, contract is liable to be dealt in accordance with provision of clause 62 of Standard General Condition of Contract. As per Clause No. 16, of Tender Form (second sheet) Annex. I of GCC APRIL-2022, with up to date correction slip.</p>
12.0	<p>Omissions & Discrepancies: Should a tenderer find discrepancies in or omissions from the drawings or any of the Tender Forms or should he be in doubt as to their meaning, he should at once notify the authority inviting tenders. The tender inviting authority may, if deemed necessary, clarify the same to all tenderers. It shall be understood that every endeavor has been made to avoid any error which can materially affect the basis of tender and successful tenderer shall take upon himself and provide for the risk of any error which may subsequently be discovered and shall make no subsequent claim on account thereof.</p> <p>As per Clause No. 4 of Part-I of GCC APRIL-2022, with up to date correction slip</p>
13.1(A)	<p>(i) Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate and all-inclusive in accordance with the provisions of Clause-37 of the General Conditions of Contract for the completion of works to the entire satisfaction of the Engineer. (As per Clause No. 6 (a)(i) of G.C.C. 2022 Part-I with up to date correction slip)</p> <p>(ii) Tenderers will examine the various provisions of the Central Goods and Services Tax Act, 2017 (CGST)/Integrated Goods and Services Tax Act, 2017 (IGST)/ Union Territory Goods and Services Tax Act, 2017 (UTGST)/ respective State's State Goods and Services Tax Act (SGST) also, as notified by Central/State Govt. & as amended from time to time and applicable taxes before bidding. Tenderer(s) will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates. (As per Clause No. 6 (a) (ii) of G.C.C. 2022 Part-I with up to date correction slip)</p>

	<p>(iii)The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to DFCCIL immediately after the award of contract, without which no payment shall be released to the contractor. The contractor shall be responsible for deposition of applicable GST to the concerned authority. (As per Clause No. 6 (a) (iii)of G.C.C. 2022 Part-I with up to date correction slip)</p> <p>(iv)In case the successful tenderer is not liable to be registered under CGST/IGST/UTGST/SGST Act, the DFCCIL shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority.</p> <p>As per Clause No. 6(a)(iv) of Part-I of GCC APRIL-2022, with up to date correction slip.</p>
13.1(B)	<p>When work is tendered for by a firm or company, the tender shall be digitally signed by the individual legally authorized to enter into commitments on their behalf.</p> <p>As per Clause No. 6(b) of Part-I of GGC-2022, with up to date correction slip</p>
13.1(C)	<p>In E-tender, all submissions of documents are to be uploaded on web-site. There may be last minute hic-cups and delay in uploading the Documents and payment of Earnest Money etc. Tenderers/Prospective bidders are advised to upload their offer well in time. DFCCIL will not be responsible for any delay/non submission of offer due to any reason whatsoever.</p>
13.1(D)	<p>The DFCCIL will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. It may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.</p> <p>As per Clause No. 6 (c) of Part-I of GCC APRIL-2022, with up to date correction slip.</p>
13.2	<p>The tenderers shall submit a copy of certificate stating that all their statements/documents submitted along with bid are true and factual. Standard format of the certificate to be submitted by the bidder is enclosed as Annexure-II. Non submission of the certificate by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self-attested by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document.</p> <p>As per Clause No. 6.1 of Part-I of GCC APRIL-2022, with up to date correction slip.</p>
14	<u>RIGHT OF DFCCIL TO DEAL WITH TENDERS</u>

14.1	<p>If, the DFCCIL decides to negotiate, in view to bring down the rates, the tenderer, who is called for negotiation, shall furnish the following form of declaration before commencement of the negotiation:</p> <p>I/we do declare that in the event of failure of the contemplated negotiations relating to Tender No.dated..... Opened on my original tender shall remain open for acceptance on its original terms and conditions up to the date specified in the tender or the date extended by mutual agreement from time to time.</p>
14.2	<p>The tenderer/s are required to quote his/their rates as % (percentage) Above/Below /At Par in figures on IREPS while submitting his/their offer.</p>
15.0	<p><u>ELIGIBILITY CRITERIA</u></p>
15.1.1	<p>Technical Eligibility Criteria</p> <p>(a) The tenderer must have successfully or substantially* completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:</p> <p>Three similar works, each costing not less than the amount equal to 30% of advertised value of the tender,</p> <p style="text-align: center;">OR</p> <p>Two similar works, each costing not less than the amount equal to 40% of advertised value of the tender,</p> <p style="text-align: center;">OR</p> <p>One similar work, each costing not less than the amount equal to 60%of advertised value of the tender.</p> <p>(b) The similar nature of work is defined as-</p> <p style="padding-left: 40px;">“Rehabilitation/Maintenance/design supply erection testing commissioning of at least one 132 kV or Higher Grid Substation.”</p> <p style="text-align: center;">OR</p> <p style="padding-left: 40px;">“Rehabilitation/Maintenance/design supply erection testing commissioning of 25/2X25 kV AC Traction Substation/Switching Stations.”</p> <p>(c) ELECTRICAL CONTRACTOR LICENSE:-</p> <p>(i) The Contractor should have valid A-Class Electrical license to be submitted along with tender failing which tender would be consider ineligible (i.e. not eligible).</p> <p>(ii) The work shall be carried out by the contractor, having valid Electrical Contractor`s License for carrying out installation work under the direct supervision of the persons holding valid certificates of competency issued by the State Government.</p> <p>(iii) The successful tenderer shall furnish the names and particulars of the certificate of competency of supervisor and workmen to be engaged for carrying out this work</p> <p>*To be read along with 15.8.</p>

15.1.2	<p>Technical Eligibility Criteria for JV ('a' or 'b' mentioned hereunder):</p> <p>(a) For Works without composite components: - The technical eligibility for the work as per para 15.1.1 above, shall be satisfied by either the 'JV in its own name & style' or 'Lead Manager of the JV'. Each other (non-lead) member(s) of JV, who is/ are not satisfying the technical eligibility for the work as per para 15.1.1 above, shall have technical capacity of minimum 10% of the cost of work i.e., each non-lead member of JV member must have satisfactorily completed or substantially completed during the last 07 (seven) years, ending last day of month previous to the one in which tender is invited, one similar single work for a minimum of 10% of advertised value of the tender. (Not Applicable in this Tender).</p> <p>(b) For works with composite components: - (Not applicable in this Tender)</p> <p>Note for Clause 15.1.2: Value of a completed work done by a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying his/her compliance to the above-mentioned technical eligibility criteria in the tender under consideration.</p> <p>As per Clause No. 17.0-17.14 and clause 17.15 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up-to-date correction slip</p>
15.2	<p>Financial Eligibility Criteria: The tenderer must have minimum average annual contractual turnover of V/N or 'V' Whichever is less; where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited.</p> <p>The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover.</p> <p>The tenderers shall submit requisite information as per Annexure-VIB of GCC APRIL-2022, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.</p> <p>Note: Client certificate from other than Govt. Organization should be duly supported by Form 16A/26AS generated through TRACES of Income Tax Department of India.</p> <p>As per Clause No. 10.2 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip.</p>
15.2.1	<p>Financial Eligibility for JV- (Not applicable)</p> <p>Criteria The JV shall satisfy the requirement of "Financial Eligibility" mentioned at para 15.2 above.</p> <p>The "financial capacity" of the lead partner of JV shall not be less than 51% of the financial eligibility criteria mentioned at para 15.2 above.</p> <p>The arithmetic sum of individual "financial capacity" of all the members shall be taken as JV's "Financial capacity" to satisfy this requirement.</p> <p>Note: Contractual payment received by a Member in an earlier JV shall be</p>

	reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying compliance of the above mentioned financial eligibility criteria in the tender under consideration. As per Clause No. 17.15.2 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip
15.3	Bid Capacity: The tender/technical bid will be evaluated based on bid capacity formula detailed as Annexure-VI of GCC APRIL-2022. (Not applicable) As per Clause No. 10.3 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip.
15.3.1	Bid Capacity for JV- (Not applicable) The JV shall satisfy the requirement of "Bid Capacity" requirement mentioned at para 15.3 above. The arithmetic sum of individual "Bid capacity" of all the members shall be taken as JV's "Bid capacity" to satisfy this requirement. As per Clause No. 17.15.3 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip
15.4	No Technical and Financial credentials are required for tenders having value up to Rs 50 lakh.
15.5	<u>Note to Para 15</u> (i) Certificate issued by Chartered Accountants based on the audited balance sheets will also be accepted. (as per Annexure-VIII) The criteria for completed works shall be as under: - (ii) Entire work has to be completed in all respects as per contract agreement. Part completed work shall not be considered. (iii) Completion certificate from following organizations shall only be considered:- (a) The work(s) should have been directly awarded to the tenderer by Govt. Organization/ Semi Govt. Organization/ Public Sector Undertaking / Autonomous bodies/ Municipal Bodies/Public listed company having average annual turnover of Rs. 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of opening of tender The credentials of a wholly owned subsidiary of a parent company will also be considered in respect of works mentioned above if tender is submitted by the parent company. (b) Completion certificate should be as per proforma given in Annexure- IV-A or IV-B or IVC, as applicable or in the format containing all information required as per the Annexure- IV-A or IV-B or IV-C. (c) Work experience certificate issued by Public listed company shall be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate the relevant copy of work order, bill of quantities bill wise details of payment received duly

certified by Chartered Accountant, TDS certificates for all payments received an copy of final/last bill paid by company in support of above work experience certificate.

Details of works physically completed should be submitted in the proforma as per 'Annexure-III'.

(iv) The total value of similar nature of work completed during the qualifying period and not the payments received within qualifying period alone, should be considered.

In case, the final bill of similar nature of work has not been passed and final measurements have not been recorded, the paid amount including statutory deduction is to be considered. If final measurements have been recorded and work has been completed with negative variation, then also the paid amount including statutory deduction is to be considered.

However, if final measurements have been recorded and work has been completed with positive variation but variation has not been sanctioned, original agreement value or last sanctioned agreement value whichever is lower should be considered for judging eligibility.

(v) The amount given at Sr. No. 11 in proforma vides Annexure-IV for the completion certificate will be the value of completed work, if nomenclature of work as given in completion certificate matches with similar nature work.

(vi) The amount mentioned at Sr. No. 12 in 'Annexure-IV' for the completion certificate shall be the value of completed work if the nomenclature of completed work includes additional components of work which are not matching with similar nature of works.

(vii) Certificate from private individuals for whom such works are executed shall not be considered for eligibility.

(viii) Conditional tenders are liable to be rejected straight away. DFCCIL reserves the right to reject such tenders summarily without assigning any reasons whatsoever.

(ix) The total value of similar nature of work completed during the qualifying period and not the payments received within qualifying period alone, should be considered.

In case, the final bill of similar nature of work has not been passed and final measurements have not been recorded, the paid amount including statutory deduction is to be considered. If final measurements have been recorded and work has been completed with negative variation, then also the paid amount including statutory deduction is to be considered.

However, if final measurements have been recorded and work has been completed with positive variation but variation has not been sanctioned, original agreement value or last sanctioned agreement value whichever is lower should be considered for judging eligibility.

(x) The amount given at Sr. No. 11 in proforma vide Annexure-IV for the completion certificate will be the value of completed work, if nomenclature of work

	<p>as given in completion certificate matches with similar nature work.</p> <p>(xi) The amount mentioned at Sr. No. 12 in 'Annexure-IV' for the completion certificate shall be the value of completed work if the nomenclature of completed work includes additional components of work which are not matching with similar nature of works.</p> <p>(xii) Certificate from private individuals for whom such works are executed shall not be considered for eligibility.</p> <p>(xiii) Conditional tenders are liable to be rejected straight away. DFCCIL reserves the right to reject such tenders summarily without assigning any reasons whatsoever.</p> <p>As per Clause No. 10.1 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
15.6	<p>Credentials if submitted in foreign currency shall be converted into Indian currency i.e., Indian Rupee as under:</p> <p>The conversion rate of US Dollars into Rupees shall be the daily representative exchange rates published by the Reserve Bank of India for the relevant date. Where, relevant date shall be as on the last day of month previous to the one in which tender is invited. In case of any other currency, the same shall first be converted to US Dollars as on the last day of month previous to the one in which tender is invited, and the amount so derived in US Dollars shall be converted into Rupees at the aforesaid rate. The conversion rate of such currencies shall be the daily representative exchange rates published by the International Monetary Fund for the relevant date or immediately previous date for which rates have been published.</p> <p>As per Clause No. 10.1 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip</p>
15.7	<p>If a bidder has successfully completed a work as subcontractor and the work experience certificate has been issued for such work to subcontractor by a Govt. organization or public listed company as defined in Note for Item 10.1 part-I of GCC, the same shall be considered for the purpose of fulfillment of credentials.</p>

15.8	<p>Explanation for clause 15 (clause 15.1 to 15.6) - Eligibility Criteria:</p> <ol style="list-style-type: none"> 1) Substantially Completed Work means an ongoing work in which payment equal to or more than 90% of the present contract value (excluding the payment made for adjustment of Price variation (PVC), if any) has been made to the contractor in that ongoing contract and no proceedings of termination of contract on Contractor's default has been initiated. The credential certificate in this regard should have been issued not prior to 60 days of date of invitation of present tender. 2) In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials. 3) If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials. 4) In case of completed work, the value of final bill (gross amount) including the PVC amount (if paid) shall be considered as the completion cost of work. In case final bill is pending, only the total gross amount already paid including the PVC amount (if paid) shall be considered as the completion cost of work. In case of substantially completed work, the total gross amount already paid including the PVC amount (if paid), as mentioned in the certificate, shall be considered as the cost of substantially completed work. 5) If a bidder has successfully completed a work as subcontractor and the work experience certificate has been issued for such work to the subcontractor by a Govt. Organization or public listed company as defined in Note for Item 10.1 Para 10 of the Tender Form (Second Sheet) of GCC APRIL-2022, the same shall be considered for the purpose of fulfilment of credentials. 6) In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost of that work including PVC amount if any shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility. 7) In case of newly formed partnership firm, the credentials of individual partners from previous propriety firm(s) or dissolved previous partnership firm(s) or split previous partnership firm(s), shall be considered only to the extent of their share in previous entity on the date of dissolution / split and their share in newly formed partnership firm. For example, a partner A had 30% share in previous entity and his share in present partnership firm is 20%. In the present tender under consideration, the credentials of partner A will be considered to the extent of 0.3×0.2 * value of the work done in the previous entity. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No. (s) in case of dissolution of partnership firm(s) etc.
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	<p>8) In case of existing partnership firm, if any one or more partners quit the partnership firm, the credentials of remaining partnership firm shall be re-worked out i.e., the quitting partner(s) shall take away his credentials to the extent of his share on the date of quitting the partnership firm (e.g. in a partnership firm of partners A, B & C having share 30%, 30% & 40% respectively and credentials of Rs 10 crore; in case partner C quits the firm, the credentials of this partnership firm shall remain as Rs 6 crore). For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.</p> <p>9) In case of existing partnership firm if any new partner(s) joins the firm without any modification in the name and PAN/TAN no. of the firm, the credentials of partnership firm shall get enhanced to the extent of credentials of newly added partner(s) on the same principles as mentioned in item 6 above. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deeds, dissolution/splitting deeds and proof of surrender of PAN No.(s) in case of dissolution of partnership firm etc.</p> <p>10) Any partner in a partnership firm cannot use or claim his credentials in any other firm without leaving the partnership firm i.e., In a partnership firm of A&B partners, A or B partner cannot use credentials of partnership firm of A & B partners in any other partnership firm or propriety firm without leaving partnership firm of A & B partners.</p> <p>11) In case a partner in a partnership firm is replaced due to succession as per succession law, the proportion of credentials of the previous partner will be passed on to the successor.</p> <p>12) If percentage share among partners of a partnership firm is changed, but the partners remain the same, the credentials of the firm before such modification in the share will continue to be considered for the firm as it is without any change in their value. Further, in case a partner of partnership firm retires without taking away any credentials from the firm, the credentials of partnership firm shall remain the same as it is without any change in their value.</p> <p>13) In a partnership firm "AB" of A&B partners, in case A also works as propriety firm "P" or partner in some other partnership firm "AX", credentials of A in propriety firm "P" or in other partnership firm "AX" earned after the date of becoming a partner of the firm AB shall not be added in partnership firm AB.</p> <p>14) In case a tenderer is LLP, the credentials of tenderer shall be worked out on above lines similar to a partnership firm.</p> <p>15) In case company A is merged with company B, then company B would get the credentials of company A also.</p>
16.0	<p><u>THE LIST OF DOCUMENTS TO BE UPLOADED FOR THIS TENDER</u> (Note: - Information as required as per various Forms/Annexures to tender document should be submitted by the tenderers without fail strictly as per formats. Offers submitted without Mandatory documents shall be summarily rejected.)</p>

16.1	Following documents are common for all types of firm i.e. Sole proprietorship, Partnership, Limited Liability Partnership Firm, Registered Society/ Trust, Limited Company or JV.
(a)	Firm details as per proforma given in Annexure-I (Mandatory) .
(b)	A Copy of the Certificate as per Performa given in Annexure-II (Mandatory) .
(c) (i)	List of similar nature of works physically completed in all respects during last 7 years, ending last day of month previous to one in which tender is invited, shall be submitted as per Performa given in Annexure-III for works (i) directly awarded by Govt./Semi Govt./Public sector undertaking / Autonomous bodies /Municipal bodies/ Railway Siding owners (ii)Concessionaire (to whom the work is awarded by Indian Railways/ DFCCIL/CPWD/NHAI/ PWD/State Road Development Corporation on PPP/DBFOT or any other mode) (iii) Public listed company having average annual turnover of Rs. 500 crores and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of opening of tender Note- Works under item (ii) are to be submitted only for tenders costing Rs.50.00 Cr. and above
(c) (ii)	Details of similar nature of works successfully during last seven years, ending last day of month previous to the one in which tender is invited as per Performa given in Annexure-III
(d)	Attested copy of Completion Certificate of works mentioned in para (c) above from the Organizations with whom they worked as per proforma given in Annexure-IV-A or IV-B or IV-C as applicable. (Mandatory)
(e)	Secondary Components-(Not Applicable in this Tender).
(f)	List of works on hand, existing commitments and balance amount of ongoing works as per format given in ' Annexure-V Duly verified by Chartered Accountant to evaluate bid capacity of the tenderer (Mandatory for tender value more than Rs. 20 crores).
(g)	A statement showing construction works executed and payment received during the previous three financial years and the current financial year (up to date of inviting tender), taking into account the completed as well as work in progress as per Annexure-XIX on the letter head of Chartered Accountant, to evaluate bid capacity of the tenderer (Mandatory for tender value more than Rs. 20 Crores)
(h)	List of plants & Machinery available on hand (own) and proposed to be inducted (own and hired to be given separately) for the subject work in Annexure-VI .
(i)	List of Personnel, Organization available on hand and proposed to be engaged for the subject work in Annexure -VII .
(j)	Earnest money should be in proper form. Earnest Money by the tenderer only through net banking or payment gateway in favour of CPM DFCCIL, Ajmer or as mentioned in the tender document.

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

	<p>the existing partnership firm, (b) quitting of new one or more partner(s) from the existing partnership firm –</p> <p>Following additional documents are required to be furnished (mandatory as applicable)</p> <p>a) Details of previous Propriety firm / Partnership Firm/ LLP firm as per annexure I</p> <p>b) A copy of previous partnership Firm (Notarized or duly registered with the Registrar)</p> <p>c) Affidavit as per proforma given of Annexure –IX for previous Propriety firm (duly executed on stamp paper and notarized).</p> <p>d) Copy of previous LLP agreement and certificate of incorporation.</p> <p>e) Dissolution deed/ splitting deed of the previous partnership deed or LLP agreement (in case of dissolution of previous partnership firm/ LLP firm)</p> <p>f) Proof of surrender of previous PAN no (in case of dissolution of previous partnership firm,</p> <p>g) LLP firm or propriety firm)</p> <p>h) Documents for the technical, financial criteria, bid capacity as claimed w.r.t. such partner(s) joining the new/ existing partnership firm, as per para 16.1 (c), (d), (f),(g), (k) above.</p> <p>As per Clause No. 14(ii)(c), 15, 18 & explanation to Clause 10.1 to 10.5 of Annex. I Part-I of GCC APRIL-2022, with up to date correction slip)</p>
16.2.4	<p><u>FOR COMPANY REGISTERED UNDER COMPANIES ACT 2013</u></p> <p>a) Copy of Memorandum of association/ Articles of Association of Company.</p> <p>b) Copy of Certificate of Incorporation</p> <p>(c) Copy of resolution passed by Board of Directors authorizing its Director/Employee to deal with tender on behalf of company</p> <p>(d) Special Power of Attorney/ Authorization issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender, sign the MOU/ JV agreement on behalf of the company and create liability against the Company, as per proforma given in Annexure-XV (duly registered with the Registrar or notarized). (Required even if tender documents are submitted by the authorized/ power of attorney holder himself as per (c) above)</p> <p>(e) Declaration regarding constitution of the Company, for merging of another company, details required for the entire period for last seven years as per proforma given in Annexure-XXXIII.</p> <p>(f) Following additional documents are required to be furnished (mandatory in case of merger with another company)</p> <p>(1) Details of company getting merged as per annexure I</p> <p>(2) Copy of Memorandum of Association/ Articles of Association of the Company getting merged</p> <p>(3) Copy of certificate of incorporation of previous company getting Merged</p> <p>(4) Resolution by the Board of Directors for the Merger of the company(s) with</p>

	<p>the tenderer</p> <p>(5) Proof of surrender of previous PAN no</p> <p>(6) Document for the technical, financial criteria, bid capacity as claimed w.r.t. such Company(s) joining the new/Existing Company as per para 16.1 (c), (d), (f), (g), (k) above.</p> <p>As per Clause No. 14 (ii) (e), 15 & explanation to Clause 10.1 to 10.5 of Annex. I Part-I of GCC APRIL-2022, with up to date correction slip.</p>
16.2.5	<p><u>FOR LLP FIRM REGISTERED UNDER LLP ACT 2008</u></p> <p>(a) A copy of LLP Agreement.</p> <p>(b) A copy of certificate of Incorporation and</p> <p>(c) A copy of resolution passed by partner of LLP firm for submitting tender by LLP firm and to deal with tender on behalf of the firm as per proforma given in Annexure-XXI.</p> <p>(d) Special Power of Attorney/ Authorization issued by LLP firm in favor of the individual to sign the tender on behalf of the LLP firm and create liabilities against the LLP as per proforma given in Annexure-XXV (duly registered with the Registrar or notarized). (Required even if tender documents are submitted by the authorized/ power of attorney holder himself as per (c) above) (e) Declaration by the newly formed LLP firm as per proforma given in Annexure-XXXI. (mandatory if tenderer is newly formed partnership firm)</p> <p>(e) Declaration by the existing LLP firm as per Performa given in Annexure-XXXII. (mandatory if tenderer is an existing partnership firm) (f) With respect to the declaration above, in case of</p> <p style="padding-left: 40px;">(i) Newly formed LLP firm has/ have as one or more partner(s) from previous propriety firm(s) or dissolved previous partnership firm(s) or LLP firm or split previous partnership firm(s) or LLP firm, existing LLP firm (a) joining of new one or more partner(s) in the existing LLP firm,</p> <p style="padding-left: 40px;">(ii) quitting of new one or more partner(s) from the existing LLP firm –</p> <p style="padding-left: 40px;">Following additional documents are required to be furnished (mandatory as applicable)</p> <p>(1) Details of previous Propriety firm / Partnership Firm/ LLP firm as per annexure I</p> <p>(2) A copy of previous partnership Firm (Notarized or duly registered with the Registrar)</p> <p>(3) Affidavit as per proforma given of Annexure –IX for previous Propriety firm (duly executed on stamp paper and notarized).</p> <p>(4) (4) Copy of previous LLP agreement and certificate of incorporation.</p> <p>(5) Dissolution deed/ splitting deed of the previous partnership deed or LLP agreement (in case of dissolution of previous partnership firm/ LLP firm)</p> <p>(6) Proof of surrender of previous PAN no (in case of dissolution of previous partnership firm, LLP firm or propriety firm)</p> <p>(7) Documents for the technical, financial criteria, bid capacity as claimed w.r.t.</p>

	<p>such partner(s) joining the new/ existing partnership firm, as per para 16.1 (c), (d), (f),(g), (k) above.</p> <p>As per Clause No. 14(f), 15 & explanation to Clause 10.1 to 10.5 of Annex. I Part-I of GCC APRIL-2022, with up to date correction slip</p>
16.2.6	<p><u>FOR REGISTERED SOCIETY & REGISTERED TRUST</u></p> <p>(a) A copy of the certificate of registration.</p> <p>(b) A copy of Memorandum of Association of Society/Trust Deed</p> <p>(c) A copy of Rules & Regulations of the Society</p> <p>(d) A copy of Special Power of Attorney/ Authorization in favor of the individual to sign the tender and create liabilities against the Registered Society/ Trust as per proforma given in Annexure-XXII (duly registered with the Registrar or notarized). (Required even if tender documents are submitted by the authorized/ power of attorney holder himself as per (a), (b) above)</p> <p>As per Clause No. 14(g), 15 Annex. I Part-I of GCC APRIL-2022, with up to date correction slip</p>
16.2.7	<p><u>FOR JV FIRM:- (Not Applicable in this tender)</u></p> <p>Following documents are mandatorily to be submitted by constituents of the JV firm depending upon their status</p> <p>As per clause no. 14(d), 17.0 Annex. I Part-I, GCC APRIL-2022, with up to date correction slip</p> <p>a) Memorandum of Understanding of JV as per pro forma given in Annex. X (duly executed on stamp paper and notarized)</p>
16.2.7.1	<p><u>DOCUMENTS MANDATORY FOR SOLE PROPRIETORSHIP FIRM PARTICIPATING AS MEMBER OF JV</u></p> <p>(a) Affidavit as per proforma given of Annexure –IX (duly executed on stamp paper and notarized).</p> <p>(b) Special Power of Attorney to be submitted by Sole Proprietor participating as member of JV firm as per proforma given in Annexure-XII (duly registered with the Registrar or notarized) (Not Required if MOU/JV agreement is signed by the sole Proprietor himself as per (a) above).</p> <p>As per Clause No.15 Annex. I of Part-I GCC APRIL-2022, with up to date correction slip</p>
16.2.7.2	<p><u>DOCUMENTS MANDATORY FOR HUF (HINDU UNDIVIDED FAMILY) PARTICIPATING AS MEMBER OF JV</u></p> <p>(a) Affidavit as per proforma given of Annexure –XXIX (duly executed on stamp paper and notarized).</p> <p>(b) Special Power of Attorney to be submitted by HUF participating as member of JV firm as per proforma given in Annexure-XII (duly registered with the Registrar or notarized) (Not required if MOU/JV agreement is signed by the Karta of HUF himself as per (a) above).</p> <p>As per Clause No. 17.14.2, 15 Annex. I of Part-I GCC APRIL-2022, with up to date correction slip</p>

16.2.7.3	<p><u>DOCUMENTS MANDATORY FOR PARTNERSHIP FIRM PARTICIPATING AS MEMBER OF JV</u></p> <p>(a) Copy of Partnership Deed (duly registered with the Registrar or notarized prior to date of tender opening as per the Indian Partnership Act.).</p> <p>(b) Copy of letter of consent of all the Partners or individual authorized by partnership firm to enter into JV Agreement as per Proforma given in Annex-XI (duly executed on stamp paper).</p> <p>(c) Special Power of attorney to be submitted by Partnership firm in favor of the individual to sign the tender, to sign the MOU/JV agreement on behalf of the Partnership Firm and to create liability against the firm as per Proforma given in Annexure-XVIII (duly registered with the Registrar or notarized). (Required even if MOU/JV agreement is signed by one or more partners authorized in Partnership deed, letter of consent to sign on behalf of the firm is given in (a), (b) above)</p> <p>As per Clause 17.14.1, 15 & 18.2 of Annex. I Part-I GCC APRIL-2022, with up to date correction slip</p>
16.2.7.4	<p><u>DOCUMENTS MANDATORY FOR COMPANY PARTICIPATING AS MEMBER OF JV</u></p> <p>a) A Copy of Memorandum of Association/ Articles of Association of Company.</p> <p>b) A Copy of certificate of Incorporation</p> <p>c) A Copy of resolutions passed by Board of Directors of the Company permitting the Company to enter into a JV agreement, to be submitted as per Annexure-XVII.</p> <p>d) Special Power of Attorney/ Authorization issued by the Company (backed by the Resolution of Board of Directors) in favor of the individual to sign the tender, to sign the MOU/JV agreement on behalf of the company and create liability against the Company, as per proforma given in Annexure-XII (duly registered with the Registrar or notarized). (Required even if MOU/JV agreement is signed by the authorized/ power of attorney holder himself as per (c) above)</p> <p>As per Clause No. 17.14.3, 15 of Annex. I Part-I GCC APRIL-2022, with up to date correction slip</p>
16.2.7.5	<p><u>DOCUMENTS MANDATORY FOR LLP FIRM PARTICIPATING AS MEMBER OF JV</u></p> <p>(a) A copy of LLP agreement.</p> <p>(b) A copy of Certificate of incorporation of LLP</p> <p>(c) A copy of Resolution passed by the partners of LLP firm permitting the firm to enter into a JV agreement to be submitted as per Proforma given in Annexure-XXIV</p> <p>(d) Special Power of Attorney/ Authorization issued by LLP firm (backed by resolution of partners) in favor of the individual to sign the tender, sign the MOU/ JV agreement on behalf of the LLP firm and create liabilities against the LLP firm as per proforma given in Annexure XX(duly registered with the Registrar or notarized).(Required even if MOU/JV agreement is signed by the authorized/ power of attorney holder himself as per (c) above)</p>

16.27.6	<p><u>DOCUMENTS MANDATORY FOR REGISTERED SOCIETY AND TRUST PARTICIPATING AS A MEMBER OF JV</u></p> <ul style="list-style-type: none"> (a) A copy of Deed of Formation (b) A copy of certificate of Registration. (c) A copy of Resolution passed by the executive members of Registered Society/Trust permitting the registered society/Trust to enter into a JV agreement as per proforma given in Annexure XXVI. (d) Special Power of Attorney/ Authorization issued by the registered society/ trust (backed by resolution of partners) in favour of the individual to sign the tender, to sign the MOU/ JV agreement and create liabilities against the Registered Society/ Trust as per proforma given in Annexure-XXVII(duly registered with the Registrar or notarized). (Required even if tender documents are submitted by the authorized/ power of attorney holder himself as per (c) above) (e) A copy of Rules & Regulations of the Society.
	<p><u>Note to Para 16</u></p> <ol style="list-style-type: none"> 1. The tenderers shall submit a certificate stating that they are not liable to be disqualified and all their statements/documents submitted along with bid are true and factual. Standard format of the certificate to be submitted by the bidder is enclosed as Annexure-II as mentioned in clause No. 16.1(b). Non submission of a certificate by the bidder shall result in summarily rejection of his/their bid. And it shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self-attested by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document. 2. It will not be obligatory on the part of Tender Committee to scrutinize beyond the submitted document of tenderer as far as his qualification for the tender is concerned. 3. The DFCCIL reserves the right to verify all statements, information and documents submitted by the bidder in his tender offer, and the bidder shall, when so required by the DFCCIL, make available all such information, evidence and documents as may be necessary for such verification. 4. Any such verification or lack of such verification by the DFCCIL shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of the DFCCIL there under. 4.1 In case of any wrong information submitted by tenderer, the contract shall be terminated, Earnest Money Deposit (EMD), Performance Guarantee (PG) and Security Deposit (SD) of contract forfeited and agency barred for doing business on entire DFCCIL for 5 (five) years. 4.2 In case of any information submitted by tenderer is found to be false forged or incorrect after the award of contract, the contract shall be terminated. Earnest Money Deposit (EMD), Performance Guarantee and Security Deposit available with the DFCCIL shall be forfeited. In addition, other dues of the contractor, if any, under this contract shall be forfeited and agency shall be banned for doing

	<p>business for a period of up to five years.</p> <p>5. No post tender submission of documents shall be permitted in respect of tender. However, only clarification can be called for by DFCCIL in respect of any part / document submitted by the tenderer which shall be responded to by the tenderer within 10 working days of the date of issue of such letter for clarifications, failing which the offer shall be dealt with as per available documents.</p> <p>6. The documents mentioned 'mandatory' in clause No. 16 above are required to be uploaded by the contractor with tender document. If any of these documents is not uploaded along with the tender, the offer shall be summarily rejected.</p> <p>7. In addition to above Tenderer have to certify that neither I /We (name of the sole Proprietor firm/ Partnership Firm/Limited Company/ LLP/Registered Society/Trust / JV firm) nor any of the partner or partnership firm/ LLP /Member of Registered Society/ Trust / Constituent of JV firm including partner of partnership firm in JV has/ have been black listed or debarred by DFCCIL or any other Ministry /Department/ Public Sector Undertaking of the Government of India/ any State from participation in tenders/contract on the date of opening of bids either in our individual capacity or in any firm in which we are partners.</p> <p>As per Clause No. 11(v),11(vi) Annexure 1 part I of GCC APRIL-2022, with up to date correction slip</p>
17.0	<p>Participation of Partnership Firms in works tenders</p> <p>The partnership firm shall be governed as per Clause No. 18.1 to 18.12 of Tender Form (second Sheet) Annex. I Part-I of GCC APRIL-2022, with up to date correction slip.</p>
18.0	<p>Participation of Joint Venture (JV) in Works Tender shall be governed as per Clause No. 17 of Tender Form (second Sheet) Annex. I Part-I of GCC APRIL-2022, with up to date correction slip. :</p>
19.	<p>The tenderer shall submit the original copies of the documents as per Annexure II, IX, X, XI, XII, XIII, XIV, XV, XVII, XVIII, XX, XXI, XXII, XXIII, XXIV, XXV , XXVI and XXVII etc. as applicable for Sole Proprietor/Partnership firm/LLP/Registered Society & Trust /Limited Company/JV Firms as and when required by the DFCCIL for the verification. If the required documents are not submitted by the tenderer or any discrepancy between the scanned uploaded documents and original documents then the offer of the tenderer will be summary rejected and the action will be taken as per the various provisions of Affidavit to be submitted by the tenderer as per Annexure-II.</p>
20.0	<p>Security Deposit:</p>
20.1	<p>The Earnest Money deposited by the Contractor with his tender will be retained by the DFCCIL as part of security for the due and faithful fulfillment of the contract by the Contractor. The Security Deposit shall be 5% of the contract value. Security Deposit may be deposited by the Contractor before release of first on account bill in cash or Term Deposit Receipt issued from Scheduled Bank, or may be</p>

	<p>recovered at the rate of 6% of the bill amount till the full Security Deposit is recovered. Provided also that in case of defaulting Contractor, the DFCCIL may retain any amount due for payment to the Contractor on the pending "on account bills" so that the amounts so retained (including amount guaranteed through Performance Guarantee) may not exceed 10% of the total value of the contract.</p> <p>Further, in case of contracts having value equal to or more than Rs. 50 crore (Rs Fifty crore) the Security Deposit may be deposited as Bank Guarantee Bond also, issued by a scheduled bank after execution of contract documents, but before payment of 1st on account bill. Provided further that the validity of Bank Guarantee Bond shall be extended from time to time, depending upon extension of contract granted in terms of Clause 17 of the Standard General Conditions of Contract.</p> <p>Further, in case Security Deposit has been submitted as Term Deposit Receipt/Bank Guarantee Bond in full amount, the Earnest Money deposited by the Contractor with his tender will be returned by the DFCCIL.</p> <p>Note: Security Deposit deposited in cash by the Contractor or recovered from the running bills of a Contractor or submitted by contractor as Term Deposit Receipt(s) can be refunded/returned to the contractor, in lieu of irrevocable Bank Guarantee bond issued from scheduled commercial bank of India, to be submitted by him, for an amount equal to or more than the already available Security Deposit, provided however that, in a contract of value less than Rs. 50 Crore, such refund/ return of the already available Security Deposit is permitted up to two times and in a contract of value equal to or more than Rs. 50 Crore, such refund / return of the already available Security Deposit is permitted up to three times.</p> <p>As per Clause No. 16.(1) Part-II of GCC APRIL-2022 , with up to date correction slip</p>
20.2	<p>Refund of Security Deposit: Security Deposit mentioned in sub clause (1) above shall be returned to the Contractor along with or after the following:</p> <ul style="list-style-type: none"> (a) Final Payment of the Contract as per clause 51.(1) and (b) Execution of Final Supplementary Agreement or Certification by Engineer that DFCCIL has No Claim on Contractor and (c) Maintenance Certificate issued, on expiry of the maintenance period as per clause 50 (1), in case applicable. <p>(d) As per Clause No. 51.(1) and 16.2(i) Part-II of GCC APRIL-2022, with up to date correction slip</p>
20.3	<p>Forfeiture of Security Deposit: Whenever the contract is rescinded as a whole under clause 62 (1) of GCC, the Security Deposit already with DFCCIL under the contract shall be forfeited. However, in case the contract is rescinded in part or parts under clause 62 (1) of GCC, the Security Deposit shall not be forfeited.</p> <p>As per Clause No. 16.2(ii) Part-II of GCC APRIL-2022, with up to date correction slip</p>

21.0	<p>No interest shall be payable upon the Earnest Money and Security Deposit or amounts payable to the Contractor under the Contract, but Government Securities deposited in terms of Sub Clause 16.4(b) of GCC APRIL-2022 with up to date correction slip will be payable with interest accrued thereon.</p> <p>As per Clause No. 16.3, Part-II of GCC APRIL-2022, with up to date correction slip</p>
22.0	<p>Performance Guarantee</p> <p>The procedure for obtaining Performance Guarantee is outlined below:</p> <p>(a) The successful bidder shall have to submit a Performance Guarantee (PG) within 21 (Twenty one) days from the date of issue of Letter of Acceptance (LOA). Extension of time for submission of PG beyond 21 (Twenty one) days and up to 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12% per annum shall be charged for the delay beyond 21 (Twenty one) days, i.e. from 22nd day after the date of issue of LOA. Further, if the 60th day happens to be a declared holiday in the concerned office of the DFCCIL, submission of PG can be accepted on the next working day. In all other cases, if the Contractor fails to submit the requisite PG even after 60 days from the date of issue of LOA, the contract is liable to be terminated. In case contract is terminated DFCCIL shall be entitled to forfeit Earnest Money Deposit and other dues payable against that contract. In case a tenderer has not submitted Earnest Money Deposit on the strength of their registration as a Startup recognized by Department of Industrial Policy and Promotion (DIPP) under Ministry of Commerce and Industry, DIPP shall be informed to this effect.</p> <p>The failed Contractor shall be debarred from participating in re-tender for that work. 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 31.03.2023). 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 31.03.2023.</p> <p>(As per Railway Board Letter no. 2020/CE-I/CT/3E/GCC/Policy dated 10.01.2022)</p> <ul style="list-style-type: none"> (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 Defense Certificates;

	<p>(ix) Ten years Defense Deposits;</p> <p>(x) National Defense Bonds and</p> <p>(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.</p> <p>(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.</p> <p>(d) The value of PG to be submitted by the Contractor is based on original contract value and shall not change due to subsequent variation(s) in the original contract value.</p> <p>(e) The Performance Guarantee (PG) shall be released after physical completion of the work based on 'Completion Certificate' issued by the competent authority stating that the Contractor has completed the work in all respects satisfactorily. (Completion certificate shall be governed as per As per Clause No.48.(1) & 48.(2), Part-II of GCC APRIL-2022, with up to date correction slip</p> <p>(f) Whenever the contract is rescinded, the Performance Guarantee already submitted for the contract shall be encased.</p> <p>(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:</p> <p>(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.</p> <p>(ii) Failure by the Contractor to pay President of India any amount due, either as agreed by the Contractor or determined under any of the Clauses/Conditions of the Agreement, within 30 days of the service of notice to this effect by Engineer.</p> <p>(iii) The Contract being determined or rescinded under clause 62 of the GCC As per Clause No.16.(4), Part-II of GCC APRIL-2022, with up to date correction slip</p>
23	MEASUREMENTS OF CONTRACTOR WORKS.
23.1	The tenderer whether sole proprietor, a company or a partnership firm / joint venture (JV) / registered society /registered trust etc. if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favor of the specific person whether he/they be partner(s) of the firm or any other person specifically authorizing him/them to submit the tender, sign the agreement, receive money, co-ordinate measurements through contractor's

	<p>authorized engineer, witness measurements, sign measurement books, compromise, settle, relinquish any claim(s) preferred by the firm and sign "No Claim Certificate" and refer all or any disputes to arbitration.</p> <p>As per Clause No. 15 of Annexure I part 1 of GCC APRIL-2022, with up to date correction slip</p>
23.2	<p>Measurement of works by DFCCIL:</p> <p>The contractor shall be paid for the works at the rates in the accepted Schedule or Rates and for extra works at rates determined under Clause 39 of these Conditions on the measurements taken by the Engineer or the Engineer's representative in accordance with the rules prescribed for the purpose by the DFCCIL. The quantities for items the unit of which in the accepted Schedule of Rates is 100 or 1000 shall be calculated to the nearest whole number, any fraction below half being dropped and half and above being taken as one, for items the unit of which in the accepted Schedule of Rates is single, the quantities shall be calculated to two places of decimals. Such measurements will be taken of the work in progress from time to time and at such intervals as in the opinion of the Engineer shall be proper having regard to the progress of works. The date and time on which 'on account' or 'final' measurements are to be made shall be communicated to the contractor who shall be present at the site and shall sign the results of the measurements (which shall also be signed by the Engineer or the Engineer's representative) recorded in the official measurements book as an acknowledgement of his acceptance of the accuracy of the measurements. Failing the contractor's attendance, the work may be measured up in his absence and such measurements shall notwithstanding such absence, be binding upon the contractor whether or not he shall have signed the measurement books provided always that any objection made by him to measurement shall be duly investigated and considered in the manner set out below:</p> <ol style="list-style-type: none"> It shall be open to the contractor to take specific objection to any recorded measurements or Classification on any ground within seven days of the date of such measurements. Any re-measurement taken by the Engineer or the Engineer's representative in the presence of the Contractor or in his absence after due notice has been given to him in consequence of objection made by the Contractor shall be final and binding on the Contractor and no claim whatsoever shall thereafter be entertained regarding the accuracy and classification of the measurements. If an objection raised by the Contractor is found by the Engineer to be incorrect the Contractor shall be liable to pay the actual expenses incurred in measurements. <p>(As per Clause No. 45 (i), Part-II of GCC APRIL-2022, with up to date correction slip)</p>

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

24.4	<p>Final Payment: On the Engineer's certificate of completion in respect of the works, adjustment shall be made and the balance of account based on the Engineer or the Engineer's representative's certified measurements or Engineer's certified "contractor's authorized engineer's measurements" of the total quantity of work executed by the Contractor up to the date of completion and on the accepted schedule of rates and for extra works on rates determined under Clause 39 of these Conditions shall be paid to the Contractor subject always to any deduction which may be made under these presents and further subject to the Contractor having signed delivered to the Engineer enclosing either a full account in detail of all claims he may have on the DFCCIL in respect of the works or having delivered No Claim Certificate and the Engineer having after the receipt of such account given a certificate in writing that such claims are not covered under excepted matter i.e. Clauses 7(j), 8, 18, 22(5), 39, 43(2), 45(a), 48(1), 48(2), 48(3), 55, 55-A(5), 57, 57A, 61(1), 61(2) and 62(1)(i) to xv (B) of Standard General Conditions of Contract or in any Clause (stated as excepted matter) of the Special Conditions of the Contract, that the whole of the works to be done under the provisions of the Contracts have been completed, that they have been inspected by him since their completion and found to be in good and substantial order, that all properties, works and things, removed, disturbed or injured in consequence of the works have been properly replaced and made good and all expenses and demands incurred by or made upon the DFCCIL for or in the respect of damage or loss by from or in consequence of the works, have been satisfied agreeably and in conformity with the contract.</p>
25.0	<p><u>INSTRUCTIONS OF MODE OF PAYMENT IN WORKS TENDERS OR SERVICE TENDER THROUGH LETTER OF CREDIT (LC)</u></p>
25.1.1	For all the tenders having advertised cost of Rs. 10 lakh or above, the contractor shall have the option to take payment from DFCCIL through a letter of credit (LC) arrangement.
25.1.2	This option of taking payment through LC arrangement has to be exercised in IREPS (Indian Railways Electronic Procurement System - the e-application on which tenders are called by DFCCIL) by the tenderer at the time of bidding itself, and the tenderer shall affirm having read over and agreed to the terms and conditions of the LC option.
25.1.3	The option so exercised, shall be an integral part of the bidder's offer.
25.1.4	<p>The above option of taking payment through LC arrangement, once exercised by tenderer at the time of bidding, shall be final and no change shall be permitted, thereafter, during execution of contract.</p> <p>In case tenderer opts for payment through LC following shall be the procedure to deal release of payment through LC:</p> <p>(a) The LC shall be a sight LC,</p> <p>(b) The contractor shall select his Advising/Negotiating bank for LC. The incidental cost towards issue of LC and its operation thereof shall be borne by the contractor.</p>

- (c) SBI, New Delhi, Main Branch will be the nodal branch for issue of LCs based on online requests received from DFCCIL Accounts Units for tenders opened in financial year 202019. SBI branches where the respective DFCCIL Accounts Office has its Account (local SBI branch) will be the issuance/ reimbursing branch for LC issued under this arrangement. The Bank shall remain same for this tender till completion of contract. The incidental cost @ 0.15% per annum of LC value, towards issue of LC and operation thereof shall be borne by the contractor and shall be recovered from his bills.
- (d) The LC shall be opened initially for duration of 180 to 365 days in consultation with contractor. The LC shall be extended time to time as per the progress of the contract, on the
- e) The LC terms and conditions shall inter-alia indemnify and save harmless the DFCCIL from and against all losses, claims and demands of every nature and description brought or recovered against the DFCCIL by reason of any act or omission of the contractor, his agents or employees, in relation to the Letter of Credit (LC). All sums payable/borne by DFCCIL on this account shall be considered as reasonable compensation and paid by contractor.
- (f) The LC terms and conditions shall inter-alia provide that DFCCIL will issue a Document of Authorization (format enclosed as **Annexure-‘B’**) after passing the bill for completed work, to enable contractor to claim the authorized amount from their bank.
- (g) The acceptable, agreed upon document for payments to be released under the LC shall be the Document of Authorization.
- (h) The Document of Authorization shall be issued by DFCCIL Accounts Office against each bill passed by DFCCIL.
- (i) On issuance of Document of Authorization, a copy of Document of Authorization shall be posted on IREPS for download by the contractor. A digitally signed copy of Document of Authorization shall also be sent by DFCCIL Accounts Office to DFCCIL’s bank (Local SBI Branch).
- (j) The contractor shall take print out of the Document of Authorization available on IREPS and present his claim to his bank (advising Bank) for necessary payments as per LC terms and conditions. The claim shall comprise of copy of Document of Authorization, Bill of Exchange and Bill.
- (k) The payment against LC shall be subject to verification from DFCCIL’s Bank (Local SBI Branch).
- (l) The contractor’s bank (advising bank) shall submit the documents to the DFCCIL’s Bank (Local SBI Branch).
- (m) The DFCCIL’s bank (issuing bank) shall, after verifying the claim so received with reference to the digitally signed Document of Authorization received from DFCCIL Accounts Office, release the payment to contractor’s bank (advising bank) for crediting the same to contractor’s account.
- (n) Any number of bills can be dealt within one LC, provided the sum total of

payments to contractor is within the amount for which LC has been opened.
 (o) The LC shall be closed after the release of final payment including PVC amount, if any to the contractor.
 (p) The release of performance guarantee or security deposit shall be dealt directly by DFCCIL with the contractor i.e., not through LC.
 For opening of LC, executive department shall make a request letter to concerned Accounts Department on a format, placed as ***Annexure-'A'***.

Annexure-'A'

Clause No. 24.2 of General Instructions to Tenderers) Request letter from Executive branch to Accounts Office for opening of LC

Office of DFCCIL

No.....

Dated.....

The Dy. CPM/Finance
 Ajmer

Sub:- Opening of LC

Ref:-Supply Order / Contract Agreement No.

It is requested to open a sight LC against the above referred order/Agreement in favour of

The details of beneficiary are as under:

- i) Name of Contractor/Supplier
- ii) Vendor code
- iii) Address
- iv) Tender No.
- v) Contract Agreement No.
- vi) Description of Goods/Service
- vii) Value of Contract
- viii) Stages of payment
- xi) Expected payment within 6 months (LC Amount)
- xii) Beneficiary bank details;
 - a. Bank name
 - b. Address
 - c. Account No.
 - d. IFSC Code

It is certified that the supplier/contractor has exercised the option of taking payment due against the tender, through LC arrangement in IREPS portal at the time of bidding itself and the option has been flagged in the IREPS. This has the

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

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

(a)	Financial Bid Financial Bid shall comprise of Final Price Offer obtained through Reverse Auction. Following conditions and procedure shall be followed in selection of bidders for conduct of Reverse Auction:		
(b)	Selection of vendors for Reverse Auction for award of Contract in Works and Services tenders :		
	Number of tenderers Qualified for Award Of contract/ Bulk order	Number of tenderers to be selected for Reverse Auction.	Remarks
	< 3	NIL*	The bids disallowed from participating in the Reverse Auction shall be the highest bidder(s) in the tabulation of Initial Price Offer. In case the highest bidders quote the same rate, the Initial Price Offer received last, as per time log of IREPS, shall be removed first, on the principle of last in first out, by IREPS system itself.
	3 to 6	3	
	More than 6	50% of Vendors Qualified for Bulk Order/ award of contract (rounded off to next higher integer).	
<p>Note:- (i)* If the number of tenderers qualified for Award of Contract is less than 3 RA shall not be done and tender may be decided on the basis of Initial Price Offer(s).</p> <p>(ii) Make in India criteria: All bidders eligible for benefits under Public Procurement (Preference to Make in India) Order – 2017, found Qualified for Award of Contract and are within the specified range of price preference of lowest Initial Price Bid shall be permitted to participate in the Reverse Auction, irrespective of their inter-se ranking on the basis of Initial Price Bid. Such bidders shall be over and above the number of vendors selected for Reverse Auction, as per Para 24.2.2(a) above. During Reverse Auction process, bidders shall not be allowed to bid a rate higher than the lowest Initial Price Offer.</p>			

Procedure for Conduct and Reporting of R.A.

1. The tendering authority shall solicit bids through an invitation to the electronic Reverse Auction to be published or communicated in accordance with the provisions similar to e-procurement.
2. Depending upon the nature of item/work/service and complexity of case on hand, following shall be indicated in the tender for e-RA itself.
 - (a) Initial e-RA period: This shall be the initial time interval for e-RA, e-RA Shall be open for this duration.
 - (b) Auto extension period: In case any offer is received in the time period equal to auto extension period before close of initial e-RA period, the e-RA shall be extended for time equal to auto extension period from the time of last bid. There shall be no upper limit on number of auto extensions. When no offer is received in the last auto extension period, e-RA shall close.
 - (c) Minimum decrement in percentage of value of the last successful bid.
3. Date and time for start of e-RA shall be communicated to qualified tenderers by the convener after evaluation of the Technical Bids.
4. After submission of Initial Price Bid, tenderers will not be allowed to revise the taxes and other levies.
5. During auction period, identities of the participating tenderers will be kept hidden.
6. Minimum admissible bid value will be last bid value minus minimum decrement as specified by the tendering authority before starting of reverse auction. Starting point for reverse auction shall be the lowest initial Price Bid of the Tenderer eligible for award of contract.
7. After close of the RA, tabulation of last (minimum) bids received from all the tenderers will be generated and made visible to Railways and participating tenderers.
8. Railway users can also view the bidding history in chronological order.
9. Bidders not be allowed to withdraw their last offer.
10. L-1 will be defined as the lowest bid obtained after the closure of R.A. session for Goods Works and Services tenders.

(Authority : No. 2017/Trans/01/Policy/Pt-S Dated 28.03.2018)

SPECIAL CONDITIONS OF CONTRACT (GENERAL)

PART-IV
SPECIAL CONDITIONS OF CONTRACT (GENERAL)

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

	outside DFCCIL limits for due fulfillment of contract or for borrow pits, approaches, etc., directly with the land owners or local authority and to pay such rents if any as are payable as may be mutually agreed upon between them.
6.	<u>FIGURES, DIMENSIONS ETC.</u> Figures, dimensions and drawings shall supersede measurements by scale and drawing to larger scale shall take precedence over those to a smaller scale. Special dimensions or directions in the specification shall supersede all else.
7.	<u>PLEA OF CUSTOM</u> The plea of custom prevailing will not on any account be permitted as excuse for an infringement of any of the conditions of the contract or specifications
8.0 8.1	<u>SEIGNIORAGE CHARGES</u> The contractor/s shall comply with all the instructions issued by the Chief Inspector of Mines in respect to the safety of the workmen and the working of quarries and maintain register in which shall be recorded, such information/s for supply annually to Chief Inspector of Mines of the Government of India, as required by him. Final payment will be released after producing the no dues certificate from Mining department or any other concerned office of the area. The contractor/s are required to produce necessary documentary proof regarding payment of royalty to Mining Department of the stone ballast supplied, as and when demanded by the DFCCIL administration. Final Bill shall be released only after production of "No Dues" certificate from the Mines Department, by the contractor.
8.2	The rates quoted by the tenderer shall be inclusive of seigniorage charges on all items of work to be executed under the contract, applicable as on the last date of submission of tender.
9.0	<u>TAXES</u> -The accepted rates should be deemed to include all taxes direct or indirect Including Income Tax leviable under Central/State or Local Bodies Act or Rules, Octroies, Tolls, Royalties, Seigniorages, Cess and similar imposts that may be prevailing from time to time in respect of land, structures and all materials supplied in the Performance of this Contract.
10.0	The Building and Other Construction workers (Regulation of Employment and conditions of service) Act, 1996 and the Building and Other Construction Workers Welfare Cess Act, 1996: The tenderers for carrying out any construction work must get themselves Registered with the Registering Officer under section 7 of the "Building and other construction workers act, 1996" and rules made there to by the concerned state Govt. and submit certificate of Registration issued from the Registering Officer of the concerned State Govt. (Labour Department). The Cess shall be deducted from contractor's Bills as per provision of Act.

11.0	<p><u>DEDUCTION OF INCOME TAX AT SOURCE</u></p> <p>In terms of new section 194 inserted by the Finance Act 1972 in the Income Tax Act 1961, the DFCCIL shall at all the time arranging payment to the contractor sub-contractor (in case of sub-contractor only when the DFCCIL responsible for payment of the consideration to him under the contract) for carryout any work (including supply of labour for carryout the work under the contract) be entitled to deduct income tax at source or income comprised in the sum of such payments. The deduction towards income tax to be made at source from the payments due to non-residents shall continue to be governed by section 195 of the Income Tax Act, 1961.</p>
12.0	<p><u>ROYALTIES AND PATENT RIGHTS</u></p> <p>The contractor shall defray the cost of all royalties, fees and payment in respect of patents, patent rights and licenses which may be payable to patentee, license or other person or corporation and shall obtain all necessary licenses. In case of any breach (whether willfully or inadvertently) by the contractor of this provision, the contractor shall indemnify the DFCCIL and its officers, servants, representatives against all claims, proceedings, damages, cost, charges, acceptance, loss and liability which they or any of them, may sustain, incur or be put to by reason or inconsequence of directly or indirectly or any such breach and against payment of any royalties, damages or other monies which the DFCCIL may have to make to any person or paid in total to patent rights in respect of the users of any machine, instrument, process, articles, matters of thing constructed, manufactured, supplied or delivered by the contractors to his order under this contract.</p>
13.0	<p><u>NOTICE TO PUBLIC BODIES</u></p> <p>The Contractor(s) shall give to the municipality, police and other authorities all notices that may be required by law and obtain all requisite licenses for temporary obstructions, enclosures and pay all fees, taxes and charges, which may be leviable on account of his operations in executing the contract. He should make good any damage to adjoining premises whether public or private and supply and maintain any lights, etc., required at night.</p>
14.0	<p><u>DAMAGE BY ACCIDENTS, FLOODS OR TIDES</u></p> <p>The contractor shall take all precautions against damage from accident, floods or tides. No compensation shall be paid to the contractor for his plant or material lost or damaged by any cause whatsoever. The contractor shall make good the damages at his cost to any structure or part thereof by any cause during the course of the work.</p>

15.0	<p><u>SERVICE ROADS</u></p> <p>The Contractor/s will be permitted to make use of existing service roads, or service roads constructed by the DFCCIL for its use free of cost. New service roads required by the contractor/s either near the work site or elsewhere within or outside DFCCIL limits for carriage of materials or for any other purpose whatsoever, will have to be constructed and maintained by the contractor/s at his/their own cost. For the purpose of construction of service roads on DFCCIL land, permission will be given free of charge. If any land other than DFCCIL land is necessary to be acquired or to be entered upon, permission to enter in the land will have to be arranged by the contractor/s at his/ their cost. The contractor/s will not prefer any claim, whatsoever on this account. The DFCCIL, however, reserves the right to make use of such service roads as may be constructed by the contractor/s without payment of any charges.</p>
16.0	<p><u>EMERGENCY WORKS</u></p> <p>In the event of any accident or failure occurring in, on or about the work or arising out of or in connection with the construction, completion or maintenance of the works, which in the opinion of the Engineer requires immediate attention, the DFCCIL may bring its own workmen or other agency to execute or partly execute the necessary work or carry out repairs if the Engineer considers that the contractor/s is/are not in a position to do so in time and charge the cost thereof, which will be determined by the CGM, DFCCIL, to the contractor.</p>
17.0	<p><u>MAINTENANCE PERIOD/DEFECT LIABILITY PERIOD:-</u></p> <p>(a) The Contractor shall guarantee that all the works executed under this contract shall be free from all defects and faults in material, workmanship and manufacture and shall be of acceptable standards for the contracted work and in full conformity with the technical specifications, drawings and other contract stipulations, for a period of 06 months from the date of taking over by the Employer</p> <p>(b) During the period of guarantee the Contractor shall keep available an experienced engineer / man power to attend to any defective works / installations resulting from defective erection/defective or poor quality maintenance and/or defect in the installation supplied by the Contractor. This engineer shall not attend to rectification of defects which arise out of normal wear and tear and come within the purview of routine maintenance work. The contractor shall bear the cost of modifications, additions or substitutions that may be considered necessary due to faulty materials or workmanship for the satisfactory working of the equipment. The final decision shall rest with the Engineer his successor(s)/Nominee.</p> <p>(c) During the period of Guarantee the Contractor shall be liable for the replacement at site of any parts which may be found defective in the executed work whether such parts / structural elements of his own manufacture or those of his sub-contractor / supplier whether arising from faulty materials,</p>

	<p>workmanship or negligence in any manner on the part of the Contractor provided always that such defective parts as are not repairable at site are promptly returned to the Contractor if so required by him at his (Contractor's) own expenses. In case of parts of executed work detected during guarantee period, contractor should replace all such items irrespective of the fact whether all such items have failed or not. The Contractor shall bear the cost of repairs carried out on his behalf by the Employer at site. In such a case, the contractor shall be informed in advance of the works proposed to be carried out by the Employer.</p> <p>(d) If it becomes necessary for the Contractor to replace or renew any defective portion of the structural elements until the expiration of six month from the date of such replacement or renewal or until the end of the above mentioned period whichever is later. Such extension shall not apply in case of defects of a minor nature, the decision of the Chief General Manager or his successor/nominee being final in the matter. If any defect be not remedied within a reasonable time during the aforesaid period the Employer may proceed to do work at the Contractor's risk and expense, but without prejudice to any other rights and remedies which the Employer may have against the Contractor in respect of such defects or faults.</p> <p>(e) The repaired or renewal parts structure shall be delivered / supplied and erected / executed on site free of charge to the Employer.</p> <p>(f) Any materials, fittings, components or equipment / structure supplied under items for supplying / providing and fixing in schedule shall also be covered by the provisions of this paragraph. The liability of the Contractor under the guarantee will be limited to re-supply of components / structure installation and fittings.</p>
18.0	<u>INSTRUCTIONS/DIRECTIVES OF THE ENGINEER'S REPRESENTATIVE</u>
18.1	The contractor shall at all times, execute the contract work only in the presence and under the supervision of the Engineer's Representative or a DFCCIL employee specifically appointed on his behalf. No work under the contract shall, therefore, be commenced by the contractor without the express permission of the Engineer's representative.
18.2	The contractor shall always execute the work under this contract in strict compliance with the instructions/directives by the Engineer's representative. Any act of non-compliance with the instruction/directives issued by the Engineer's representative shall be considered as a default of the contractor where after the DFCCIL shall be free to take further appropriate action as provided in the contract for dealing with such defaults of the contractors. The decision of the Engineer-in-charge whether there has been an act of noncompliance with the instruction/directives of the Engineer's representative for the purpose of this clause shall be final and conclusive.
18.3	The instructions/directives by the Engineer's representative shall not, however, absolve the contractor of his responsibility or reduce his responsibility in any

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

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

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

26.7	<p><u>Advances in Exceptional Cases –</u></p> <p>The power to grant advances in exceptional cases upto a maximum of Rs. 20 lacs in respect of even contracts of value less than Rs. 25 crore, considered absolutely essential, depending on the merits of each case and circumstances in each situation, lies with Chief General manager/General Manager-Co. Advance Correction slip no 56 for Indian railway Code for Engineering Department dated 05.03.2019.</p>
27.0	<p><u>STAGE PAYMENT</u> (For contract value Rs. 15.00 crores & above): (Not Applicable in this Tender)</p>
27.1	<p>Stage payment for steel physically brought by the contractor to the site (even before its actual use in work) can be made subjected to following conditions:-</p> <ul style="list-style-type: none"> (a) The material shall be strictly in accordance with the contract specifications. (b) The material shall be delivered a site and properly stored under covered sheds in measurable stacks. (c) The quantities of materials shall be brought to the site only in such installments that would facilitate smooth progress of work and consumed in reasonable time. (d) Proper accountal in the material register to be maintained in the prescribed format at the site for the receipt and use of the material. (e) Ownership of such material shall be deemed to rest with the DFCCIL for which the contractor should submit an indemnity bond in prescribed format. (f) Before releasing the stage payment, the contractor shall insure the material at his own cost in favour of DFCCIL against theft, damages, fire etc. (g) Stage payment in all such cases shall not be more than 75% of the rate of steel awarded in the contract. The balance payment shall be released only after the material is actually consumed in the work. (h) The price variation claim for steel would continue to be governed as per extant PV clause and with reference to delivery at site.
28.0	<p><u>BONUS FOR EARLY COMPLETION OF WORK:</u> In case of open tenders having value more than Rs. 20 crore and original period of completion 12 months or more, when there is no reduction in original scope of work by more than 10%, and no extension granted on either DFCCIL or Contractor's account, Contractor shall be entitled for a bonus of 1% for each 30 days early completion of work. The period of less than 30 days shall be ignored while working out bonus. The maximum bonus shall be limited to 5% of original contract value. The completion date shall be reckoned as the date of issuance of completion certificate by Engineer.</p> <p>As per Clause No. 17(c) Part-II of GCC APRIL-2022, with up to date correction slip</p>
29.0	<p>Contractor shall provide suitable manpower to Engineer in Charge or his representative at all times during currency of the contract for assisting him in giving layout of work, carrying out quality checks, taking measurements and other associated activities for effective supervision of work.</p>

30.0	<u>DEPLOYMENT OF QUALIFIED ENGINEERS AT WORK SITES BY THE CONTRACTOR</u> (As per Clause No.26-A of G.C.C. April-2022 Part-II with up to date correction slip)
30.1	The contractor shall also employ Qualified Graduate Engineer or Qualified Diploma Holder Engineer, based on value of contract, as may be prescribed by the DFCCIL through separate instructions from time to time.
30.2	In case the contractor fails to employ the Engineer, as aforesaid in Para 30.1, he shall be liable to pay liquidated damages at the rates, as prescribed in the tender document penalty at the rates, as may be prescribed by the DFCCIL (Para 30.4) through separate instructions from time to time for the default period for the provisions, as contained in Para 30.1.
30.3	No. of qualified Engineers required to be deployed by the Contractor for various activities contained in this works contract shall be as under:- (i) For tenders costing below Rs.50.00 Cr. 1) Graduate Engineer – Minimum 1 Nos. 2) Diploma Engineer – Minimum 1 Nos. (ii) For tenders costing Rs.50.00 Cr. and above. 1) Graduate Engineer – Minimum 2 Nos. 2) Diploma Engineer – Minimum 2 Nos.
30.4	In case the contractor fails to employ the Qualified Engineer, as aforesaid in Para 30.1 above, he, in terms of provisions of Clause 30.2 to the Conditions of Contract, shall be liable to pay an amount of Rs. 40,000/- and Rs. 25,000/- for each month or part thereof for the default period for the provisions, as contained in Para 30.3 above respectively.
31.0	<u>PRICE VARIATION CLAUSE</u> (As per Clause No. 46 A of GCC APRIL-2022 with up-to-date correction slip (Not Applicable))
31.1	Applicability: Price Variation Clause shall be applicable only for works contracts having advertised value above Rs. 2 Crore . Materials supplied free of cost by Railway to the contractors and any extra NS items included in subsequent variations falling outside the purview of the Schedule of Items of tender shall fall outside the purview of PVC. If, in any case, accepted offer includes some specific payment to be made to consultant or some materials supplied by Railway free or at fixed rate, such payments shall be excluded from the gross value of work for the purpose of payments/ recovery of Price variation. For calculation of price variation, cut-off date quarter for running bills/final bills will be as under: (a) In case of running bill, the date of measurement recorded in MB, shall be considered. If measurement date is more than one, then 1 st date of measurement recorded in MB will be considered. (b) In case of final bill, the date of completion or 1 st date of measurement recorded in MB, whichever is earlier, will be considered.

32.A	<p>Communications to be in Writing:</p> <p>All notices, communications, reference and complaints made by the DFCCIL or the Engineer or the Engineer's Representative or the Contractor inter-se concerning the works shall be in writing or e-mail on registered e-mail IDs i.e. the e mail id provided for correspondence in the contract agreement, otherwise email id registered with IREPS and no notice, communication, reference or complaint not in writing or through e-mail, shall be recognized.</p> <p>(As per Clause No. 4 Part-II of GCC APRIL-2022, with up to date correction slip)</p>
32.B	<p><u>Assignment or subletting of the contract:</u></p> <p>(a) In case contractor intends to subcontract part of work, he shall submit a proposal in writing seeking permission of CGM for the same. While submitting the proposal to DFCCIL, contractor shall ensure the following :(As per Clause No. 7 Part-II of GCC APRIL-2022, with up to date correction slip)</p> <p>(i) Total value of work to be assigned to sub-contractor(s) shall not be more than 50% of total contract value.</p> <p>(ii) The subcontractor shall have successfully completed at least one work similar to work proposed for subcontract, costing not less than 35% value of work to be sub-letted, in last 5 years through a works contract directly given to him by a Govt. Department; or by a Public listed company having average annual turnover of Rs. 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, registered at least 5 years back from the date of submission of proposal by contractor to DFCCIL and work experience certificate issued by a person authorized by the Public Listed Company to issue such certificates.</p> <p><i>Note: For subletting of work costing up to Rs 50 lakh no previous work experience shall be asked for by the DFCCIL.</i></p> <p>In case contractor submits subcontractor's work experience certificate issued by public listed company, the contractor shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate. The details shall be furnished as per the annexure IV A, IV-B, IV-C as applicable to the Engineer in charge.</p> <p>(iii) There is no banning of business with the sub-contractor in force over IR/DFCCIL.</p> <p>(b) The Contractor shall provide to the Engineer a copy of the agreement to be entered into by Contractor with subcontractor. No subcontractor shall be permitted without a formal agreement between Contractor and subcontractor. This agreement shall clearly define the scope of work to be carried out by subcontractor and the terms of payment in clear & unambiguous manner.</p> <p>(c) On receipt of approval from CGM, Contractor shall enter into a formal agreement legally enforceable in Court of Law with subcontractor and submit a copy of the</p>

	<p>same to the Engineer.</p> <p>(d)The Contractor shall intimate to the Engineer not less than 7 days in advance, the intended date of commencement of subcontractor's work.</p> <p>(e)Once having entered into above arrangement, Contractor shall discontinue such arrangement, if he intends to do so at his own or on the instructions of DFCCIL, with prior intimation to CGM.</p> <p>(f)The Contractor shall indemnify DFCCIL against any claim of subcontractor.</p> <p>(g)The Contractor shall endeavor to resolve all matters and payments amicably and speedily with the subcontractor.</p> <p>(h) In addition to issuance of work experience certificate to Contractor, the Engineer, when, based on documents, is satisfied that subcontracted work has been carried out by subcontractor, shall issue work experience certificate to the subcontractor also for the portion of work subcontracted and successfully completed by the sub-contractor.</p> <p>Note: Work Experience Certificate to the subcontractor shall be issued only when the contractor's work is complete and contractor is entitled for the issuance of Work Experience Certificate. However, in the same contract, when the Chief Engineer, based on documents, is satisfied that the subcontractor has successfully carried out subletted work, without issuance of work experience certificate to subcontractor at this stage, the Chief Engineer can, only once, consider the successfully completed subletted work for the fulfilment of eligibility for further subletting of work to the subcontractor in the same contract. When the contractor's work is complete and contractor is entitled for the issuance of work experience certificate, the subcontractor shall be issued one Work Experience Certificate for the total scope of work executed by the subcontractor in the contract.</p> <p>(i)The responsibility of successful completion of work by subcontractor shall lie with Contractor. Subcontracting will in no way relieve the Contractor to execute the work as per terms of the Contract.</p> <p>(j)Further, in case Engineer is of the view that subcontractor's performance is not satisfactory, he may instruct the Contractor to remove the subcontractor from the work and Contractor has to comply with the above instructions with due promptness. Contractor shall intimate the actual date of discontinuation of subcontract to Engineer. No claim of Contractor whatsoever on this account shall be entertained by the DFCCIL and this shall be deemed as 'excepted matter' (matter not arbitrable).</p> <p>(k)The permitted subcontracting of work by the Contractor shall not establish any contractual relationship between the sub-contractor and the DFCCIL and shall not relieve the Contractor of any responsibility under the Contract.</p>
33	<p>Display Board: The Contractor shall be responsible for displaying the details of works i.e. name of work, approximate cost, expected date of completion, name and address of the Contractor and address of Engineer on a proper steel Board of size not less than 1m x 1m. As per Clause No. 34.(5) Part-II of GGC-2022 with</p>

	up to date correction slip
34.0	VARIATIONS & MODIFICATION IN EXTENT OF CONTRACT
34.1	Modification to Contract to be in Writing: In the event of any of the provisions of the contract required to be modified after the contract documents have been signed, the modifications shall be made in writing and signed by the Railway and the Contractor and no work shall proceed under such modifications until this has been done. Any verbal or written arrangement abandoning, modifying, extending, reducing or supplementing the contract or any of the terms thereof shall be deemed conditional and shall not be binding on the Railway unless and until the same is incorporated in a formal instrument and signed by the Railway and the Contractor, and till then the Railway shall have the right to repudiate such arrangements. As per Clause No. 41 Part-II of GGC-2022 with up to date correction slip
34.2.1	Powers of Modification to Contract: The Engineer on behalf of the Railway shall be entitled by order in writing to enlarge or extend, diminish or reduce the works or make any alterations in their design, character position, site, quantities, dimensions or in the method of their execution or in the combination and use of materials for the execution thereof or to order any additional work to be done or any works not to be done and the Contractor will not be entitled, to any compensation for any increase/reduction in the quantities of work but will be paid only for the actual amount of work done and for approved materials supplied against a specific order. As per Clause No. 42(1) Part-II of GGC-2022 with up to date correction slip
34.2.2	<p>(i) Unless otherwise specified in the special conditions of the contract, the accepted variation in quantity of each individual item of the contract would be upto 25% of the quantity originally contracted, except in case of foundation work.</p> <p>(ii) The Contractor shall be bound to carry out the work at the agreed rates and shall not be entitled to any claim or any compensation whatsoever upto the limit of 25% variation in quantity of individual item of works.</p> <p>(iii) In case an increase in quantity of an individual item by more than 25% of the agreement quantity is considered unavoidable, then same shall be executed at following rates</p> <p>(a) Quantities operated in excess of 125% but upto 140% of the agreement quantity of the concerned item, shall be paid at 98% of the rate awarded for that item in that particular tender;</p> <p>(b) Quantities operated in excess of 140% but upto 150% of the agreement quantity of the concerned item shall be paid at 96% of the rate awarded for that item in that particular tender;</p> <p>(c) Variation in quantities of individual items beyond 150% will be avoided and would be permitted only in exceptional unavoidable circumstances and shall be paid at 96% of the rate awarded for that item in that particular tender.</p> <p>(d) Variation to quantities of Minor Value Item:</p>

	<p>The limit for varying quantities for minor value items shall be 100% (as against 25% prescribed for other items). A minor value item for this purpose is defined as an item whose original agreement value is less than 1 % of the total original agreement value.</p> <p>d.(i) Quantities operated upto and including 100% of the agreement quantity of the concerned minor value item, shall be paid at the rate awarded for that item in that particular tender;</p> <p>d.(ii) Quantities operated in excess of 100% but upto 200% of the agreement quantity of the concerned minor value item, shall be paid at 98% of the rate awarded for that item in that particular tender;</p> <p>d.(iii) Variation in quantities of individual minor value item beyond 200% will be avoided and would be permitted only in exceptional unavoidable circumstances and shall be paid at 96% of the rate awarded for that item in that particular tender.</p> <p>(iv) In case of earthwork, the variation limit of 25% shall apply to the gross quantity of earthwork and variation in the quantities of individual classifications of soil shall not be subject to this limit.</p> <p>As far as Standard Schedule of Rates (SSOR) items are concerned, the variation limit of 25% would apply to the value of SSOR schedule(s) as a whole and not on individual SSOR items. However, in case of Non Standard Schedule of Rates (SSOR) items, the limit of 25% would apply on the individual items irrespective of the manner of quoting the rate (single percentage rate or individual item rate).</p> <p>As per Clause No. 42(2) Part-II of GGC-2022 with up to date correction slip</p>
34.3	<p>Valuation of Variations: The enlargements, extensions, diminution, reduction, alterations or additions referred to in Sub-Clause (2) of this Clause shall in no degree affect the validity of the contract; but shall be performed by the Contractor as provided therein and be subject to the same conditions, stipulations and obligations as if they had been originally and expressively included and provided for in the Specifications and Drawings and the amounts to be paid therefor shall be calculated in accordance with the accepted Schedule of Rates. Any extra items/quantities of work falling outside the purview of the provisions of Sub-Clause (2) above shall be paid for at the rates determined under Clause-39 of these Conditions.</p>

34.4	<p><u>Rates for Extra Items of Works:</u> Any item of work carried out by the Contractor on the instructions of the Engineer which is not included in the accepted Schedules of Rates shall be executed at the rates set forth in the "IR USSOR-2010" modified by the tender percentage, and for such items not contained in the latter, at the rate agreed upon between the Engineer and the Contractor before the execution of such items of work and the Contractors shall be bound to notify the Engineer at least seven days before the necessity arises for the execution of such items of works that the accepted Schedule of Rates does not include rate or rates for the extra work involved. The rates payable for such items shall be decided at the meeting to be held between the Engineer and Contractor, in as short a period as possible after the need for the special item has come to the notice. In case the Contractor fails to attend the meeting after being notified to do so or in the event of no settlement being arrived at, the DFCCIL shall be entitled to execute the extra works by other means and the Contractor shall have no claim for loss or damage that may result from such procedure. The assessment of rates for extra items shall be arrived at based on the prevailing rates and by taking guidance from the following documents in order of priority:</p> <p>(i) Analysis of Unified Schedule of Rates of Indian Railways. (ii) Market Analysis</p>									
35.0	<p>HANDLING VITIATION DURING VARIATION IN CONTRACT QUANTITIES</p> <p>In partial modification of existing instructions, it has been decided that as a result of variations, a contract shall be considered “vitiating” only when, the following percentage variation in contract value between tenderers are noticed to have been exceeded.</p> <table><tr><td>S N</td><td>Value of contract</td><td>Percentage difference bet. Present contractor and new L1 as a result of variation. (Percentage shall be calculated with base as the revised contract quantities multiplied by the rates of the present contractor).</td></tr><tr><td>1</td><td>Small value contracts (Tender value less than Rs. 50 lakh)</td><td>10</td></tr><tr><td>2</td><td>Other than small value contracts (Tender Value equal to or more than Rs. 50 lakh).</td><td>5</td></tr></table>	S N	Value of contract	Percentage difference bet. Present contractor and new L1 as a result of variation. (Percentage shall be calculated with base as the revised contract quantities multiplied by the rates of the present contractor).	1	Small value contracts (Tender value less than Rs. 50 lakh)	10	2	Other than small value contracts (Tender Value equal to or more than Rs. 50 lakh).	5
S N	Value of contract	Percentage difference bet. Present contractor and new L1 as a result of variation. (Percentage shall be calculated with base as the revised contract quantities multiplied by the rates of the present contractor).								
1	Small value contracts (Tender value less than Rs. 50 lakh)	10								
2	Other than small value contracts (Tender Value equal to or more than Rs. 50 lakh).	5								
35.1	<p>When the percentage difference between present Contractor and new L-1 is noticed as becoming beyond the values specified above, the following action shall be taken.</p>									

35.1.1	<p>The DFCCIL administration should immediately examine whether it is practicable to bring in a new agency to carry out the extra quantity of work keeping in view the progress of the work in accordance with the original contract and the nature and layout of the work. If it is found that there will be no serious practical difficulty in meeting the additional quantity of work done by another agency, then fresh tenders for the extra quantity maybe invited otherwise negotiating the rate with the existing contractor for arriving at a reasonable rate for the additional quantities of work, may be adopted.</p>
35.2	<p>The above shall be regulated as under:</p> <p>(a) The case shall be decided by the tender accepting authority (competent for the revised quantity) and shall not be treated as a case of single tender. The provisions of Railway Board letter No. 2007/CE.I/CT/18/Pt. XII dated 31.12.2010 hereby gets superseded.</p> <p>(b) These instructions will be similarly applicable to earning contracts with H-1, H-2 Substituted for L-1, L-2 and so on.</p> <p>(c) Executives while executing the work shall make all efforts to ensure that no Vitiating takes place in normal circumstances. Vitiating should be exceptions rather than a routine affair. Efforts should be made to invite bids on the basis of percentage above/below/at Par.</p> <p>(d) Vitiating should always be computed with respect to the items, rates, quantities and conditions as available at the time of Tender Opening and subsequent changes/ additions by way of new items will not be counted for computing Vitiating.</p>
36.0	<p><u>EXTENSION OF TIME WITH LIQUIDATED DAMAGE (LD): FOR DELAY DUE TO CONTRACTOR</u></p> <p>The time for the execution of the work or part of the works specified in the contract documents shall be deemed to be the essence of the contract and the works must be completed not later than the date(s) as specified in the contract. If the Contractor fails to complete the works within the time as specified in the contract for the reasons other than the reasons specified in Clause 17 and 17-B, of Part-II of GCC APRIL-2022, with up to date correction slip the DFCCIL may, if satisfied that the works can be completed by the Contractor within reasonable short time thereafter, allow the Contractor for further extension of time as the Engineer may decide. On such extension the DFCCIL will be entitled without prejudice to any other right and remedy available on that behalf, to recover from the Contractor as agreed damages and not by way of penalty for each week or part of the week, a sum calculated at the rate of Liquidated Damages as decided by Engineer, between 0.05% to 0.30% of the contract value of the works for each week or part of week.</p> <p>For the purpose of this Clause, the contract value of the works shall be taken as value of work as per contract agreement including any supplementary work order/contract agreement issued. Provided also, that the total amount of liquidated damages under this condition shall not exceed 5% of the contract value or of the</p>

	<p>total value of the item or groups of items of work for which a separate distinct completion period is specified in the contract.</p> <p>Provided further, that if the DFCCIL is not satisfied that the works can be completed by the Contractor and in the event of failure on the part of the contractor to complete the work within further extension of time allowed as aforesaid, the DFCCIL shall be entitled without prejudice to any other right or remedy available in that behalf, to appropriate the contractor's Security Deposit and rescind the contract under Clause 62 of these Conditions, whether or not actual damage is caused by such default.</p> <p>NOTE:</p> <p>In a contract, where extension(s) of time have been allowed once under clause 17B, further request(s) for extension of time under clause 17A can also be considered under exceptional circumstances. Such extension(s) of time under clause 17A shall be without any Liquidated damages, but the Liquidated damages already recovered during extension(s) of time granted previously under clause 17B shall not be waived. However, Price variation during such extension(s) shall be dealt as applicable for extension(s) of time under clause 17B.</p> <p>As per Clause No. 17(B) Part-II of GCC APRIL-2022 with up to date correction slip</p>
37.0	<p>Quarterly Statement of Claims: The Contractor shall prepare and furnish to the Engineer once in every quarter commencing from the month following the month of issue of Letter of Acceptance, an account giving full and detailed particulars of all claims for any additional expenses to which the Contractor may consider himself entitled to and of all extra or additional works ordered by the Engineer which he has executed during the preceding quarter and no claim for payment for such work will be considered which has not been included in such particulars.</p>
38.0	<p>Settlement of disputes – Indian Railways Arbitration & Conciliation Rules (As per Clause 63 & 64 and its Sub Clauses GCC APRIL-2022 with up to date correction slip).</p> <p>Conciliation of Disputes:</p> <ol style="list-style-type: none"> 1. This clause is applicable in the tender having advertised value less than or equal to Rs 50 Crore. 2. All disputes and differences of any kind whatsoever arising out of or in connection with the contract, whether during the progress of the work or after its completion and whether before or after the determination of the contract, shall be referred by the Contractor to the "Chief General Manager" or " General Manager/Co-ord" through "Notice of Dispute" provided that no such notice shall be served later than 30 days after the date of issue of Completion Certificate by the Engineer. Chief General Manager or General Manager/Co-ord shall, within 30 days after receipt of the Contractor's "Notice of Dispute", notify the name of conciliator(s) to the Contractor. 3. The Conciliator(s) shall assist the parties to reach an amicable settlement in an independent and impartial manner within the terms of contract.

	<p>4. If the parties reach agreement on a settlement of the dispute, they shall draw up and sign a written settlement agreement duly signed by Engineer In-charge, Contractor and conciliator(s). When the parties sign the settlement agreement, it shall be final and binding on the parties.</p> <p>5. The parties shall not initiate, during the conciliation proceedings, any arbitral or judicial proceedings in respect of a dispute that is the subject matter of the conciliation proceedings.</p> <p>6. The conciliation proceedings shall be terminated as per Section 76 of 'The Arbitration and Conciliation Act, 1996.</p>
38.1	<p>Matters Finally Determined by the DFCCIL: All disputes and differences of any kind whatsoever arising out of or in connection with the contract, whether during the progress of the work or after its completion and whether before or after the determination of the contract, shall be referred by the Contractor to the CGM/GM-Co-ord and the CGM/GM-Co-ord shall, within 120 days after receipt of the Contractor's representation, make and notify decisions on all matters referred to by the Contractor in writing provided that matters for which provision has been made in Clauses 7(j), 8, 18, 22(5), 39.1, 39.2, 40A, 43(2), 45(i)(a), 55, 55-A(5), 57, 57A, 61(1), 61(2), 62(1), 63(iv) and 63.2.11 of the Standard General Conditions of Contract or in any Clause (stated as excepted matter) of the Special Conditions of the Contract, shall be deemed as 'excepted matters' (matters not arbitrable) and GCC April 2022 decisions of the DFCCIL authority, thereon shall be final and binding on the Contractor; provided further that 'excepted matters' shall stand specifically excluded from the purview of the Dispute Adjudication Board (DAB) and Arbitration.</p>
39.0	<p>All the Provisions as illustrated in clause 54 to 60 of GCC APRIL-2022, related to 'Labour' shall have to be complied with, by the contractor.</p>
40.0	<p>Accepted Program of Work: The Contractor who has been awarded the work shall as soon as possible but not later than 30 days after the date of receipt of the acceptance letter in respect of contracts with initial completion period of two years or less or not later than 90 days for other contracts have to submit the detailed program of work indicating the time schedule of various items of works in the form of Bar Chart/PERT/CPM. He shall also submit the details of organisation (in terms of labour and supervisors), plant and machinery that he intends to utilize (from time to time) for execution of the work within stipulated date of completion. The program of work amended as necessary by discussions with the Engineer, shall be treated as the agreed program of the work for the purpose of this contract and the Contractor shall endeavor to fulfill this program of work. The progress of work will be watched accordingly and the liquidated damages will be with reference to the overall completion date. Nothing stated herein shall preclude the Contractor in achieving earlier completion of item or whole of the works than indicated in the program.</p> <p>In Contracts for works of New Line/Gauge Conversion/Doubling/Railway Electrification, finalized through Tenders having advertised value more than Rs.100crores, the Contractor shall submit a detailed time programme to the Engineer within 30 days after issue of LOA. The program shall include the physical</p>

and Financial Progress vis-à-vis program and forecast cash flow adopting Project Management Software such as Primavera/Sure Track/MS Project etc. The program must identify the milestones, interface requirements and program reporting elements. The Contractor shall supply, free of cost one set of authorized software to the Engineer and the soft copy of structured program for the project. This shall be updated every month. The Contractor shall also submit a revised programme whenever the previous programme is inconsistent with actual progress. Each programme shall include:

The order in which the Contractor intends to carry out the Works, including the anticipated timing of each stage, Contractor's Documents, procurement, manufacture of Plant, delivery to Site, construction, erection and testing, each of these stages for work by each Subcontractor, if any, the sequence and timing of inspections and tests specified in the Contract, and a supporting report which includes:

a general description of the methods which the Contractor intends to adopt, and of the major stages, in the execution of the Works, and details showing the Contractor's reasonable estimate for the number of each class of Contractor's Personnel & Equipment, required on the Site for each major stage.

Unless the Engineer, within 21 days after receiving a programme, gives notice to the Contractor stating the extent to which it does not comply with the Contract, the Contractor shall proceed in accordance with the programme, subject to his other obligations under the Contract. The Engineer shall be entitled to rely upon the programme when planning their activities.

If, at any time, the Engineer gives notice to the Contractor that a programme fails (to the extent stated) to comply with the Contract or to be consistent with actual progress and the Contractor's stated intentions, the Contractor shall submit a revised programme to the Engineer within 15 days in accordance with this Sub-Clause.

As per Clause No. 19(3) Part-II of GCC APRIL-2022 with up to date correction slip

41.0	<p>Commencement of Works: The Contractor shall commence the works within 15 days after the receipt by him of an order in writing to this effect from the Engineer and shall proceed with the same with due expedition and without delay. The Contractor shall establish a quality control mechanism before execution of the work,</p> <p>(i) Contractor shall submit a QAP “Quality Assurance Plan” for the scope of work to be executed.</p> <p>The QAP shall be submitted within 15 days of the issue of LoA and which shall be approved by the Engineer In charge. The QAP shall extensively include the organization, duties and responsibilities, procedures, inspections, documentation and quality control mechanism including sampling and testing of Materials, test frequencies, standards, acceptance criteria, testing facilities, reporting, recording and interpretation of test results, approvals, check list for site activities, and proforma for testing and calibration in accordance with the Specifications and Standards etc.</p> <p>Prior to the commencement of any construction activity, a method statement, proposed to be adopted for executing the Work shall be submitted to Engineer in Charge. The method statement shall include details of material acceptance, execution procedures, checks at various levels, quality parameters, equipment/ machineries, quality assurance, quality control measures, traffic management, inspection checklist, documentation and remedial works etc.</p> <p>As per Clause No. 19(2) Part-II of GCC APRIL-2022 with up to date correction slip</p>
42.0	<p>Workmanship and Testing: The whole of the works and/or supply of materials specified and provided in the contract or that may be necessary to be done in order to form and complete any part thereof shall be executed in the best and most substantial workman like manner with materials of the best and most approved quality of their respective kinds, agreeable to the particulars contained in or implied by the specifications and as referred to in and represented by the drawings or in such other additional particulars, instructions and drawings given during the carrying on of the works and to the entire satisfaction of the Engineer according to the instructions and directions which the Contractors may from time to time receive from the Engineer. The materials may be subjected to tests by means of such machines, instruments and appliances as the Engineer may direct and wholly at the expense of the Contractor</p> <p>As per Clause No. 27(1) Part-II of GCC APRIL-2022 with up to date correction slip</p>
43.0	<p>A. Improvement of Quality in Constructions works – Regarding submission of invoices of materials, the provision of Clause 51 A of GCC is reproduced below :-</p> <p>(i) For a contract of more than one crore of rupees, the Contractor shall, whenever required, produce or cause to be produced for examination by the Engineer any quotation, invoice, cost or other account, book of accounts, voucher, receipt, letter, memorandum, paper of writing or any copy of or extract from any such document and also furnish information and returns verified in such manner as may be</p>

	<p>required in any way relating to the execution of this contract or relevant for verifying or ascertaining cost of execution of this contract (the decision of the Engineer on the question of relevancy of any documents, information or return being final and binding in the parties).The Contractor shall similarly produce vouchers etc., if required to prove to the Engineer, that materials supplied by him, are in accordance with the specifications laid down in the contract.</p> <p>(ii) If any portion of the work in a contract of value more than one crore of rupees be carried out by a sub-contractor or any subsidiary or allied firm or company (as per Clause 7 of the Standard General Conditions of Contract), the Engineer shall have power to secure the books of such sub-contract or any subsidiary or allied firm or company, through the Contractor, and such books shall be open to his inspection.</p> <p>(iii) The obligation imposed by Sub Clause (i) &(ii) above is without prejudice to the obligations of the Contractor under any statute rules or orders binding on the Contractor.</p> <p>(Authority: Rly Bd's letter No.2021/CE-I/CT/SI/1 dated 04.03.2021) (As per Clause No. 51-A of Part-II GCC-2020, with up to date correction slip) B. Post Payment Audit: It is an agreed term of contract that the DFCCIL reserves to itself the right to carry out a post-payment audit and/ or technical examination of the works and the Final Bill including all supporting vouchers, abstracts etc. and to make a claim on the Contractor for the refund of any excess amount paid to him till the release of security deposit or settlement of claims, whichever is later, if as a result of such examination any over-payment to him is discovered to have been made in respect of any works done or alleged to have been done by him under the contract .</p>
44.0	<p>Infringement of patents:</p> <p>The Contractor is forbidden to use any patents or registered drawings, process or pattern in fulfilling his contract without the previous consent in writing of the owner of such patent, drawing, pattern or trade mark, except where these are specified by the Employer himself. Royalties where payable for the use of such patented processes, registered drawings of patterns shall be borne exclusively by the Contractor. The contractor shall advise the Employer of any proprietary right that may exist on such processed drawings or patterns which he may use of his own accord.</p> <p>In the case of patent taken out by the Contractor of the drawings or patterns registered by him, or of those patents, drawings, or patents for which he holds a license, the signing of the Contract automatically gives the Employer the right to repair by himself the purchased articles covered by the patent or by any person or body chosen by him and to obtain from any sources he desires the component parts required by him in carrying out the repair work. In the event of infringement of any patent rights due to above action of the Employer, he shall be entitled to claim damages from the contractor on the grounds of any loss of any nature which he</p>

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

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

48.0	<p>PERMITS, FEES, TAXES & ROYALTIES</p> <p>Unless otherwise provided in the contract documents, the contractor shall secure and pay for all permits, Government fees and licenses necessary for the execution and completion of the works. The contractor shall pay all taxes and duties.</p> <p>The DFCCIL authorities will not take any responsibility of refund of such taxes/fees. Any violation, in the legal provision of taxes, duties, permits and fees, carried out by the Contractor and detected subsequently shall be sole responsibility of the Contractor and his legal heirs.</p>
49.0	<p>STATUTORY INCREASE IN DUTIES, TAXES ETC.</p> <p>Tenderers will examine the various provisions of the central Goods and services Tax Act, 2017 (CGST)/ Integrated goods and service tax Act, 2017 (IGST)/ Union Territory Goods and services tax Act, 2017/(UTGST)/respective state's state Goods and services tax Act (SGST) also, as notified by central/state Govt & as amended from time to time and applicable taxes before bidding. Tenders will ensure that full benefit of input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates.</p> <p>All the taxes and duties levied by the State and Central Govt. and by Local Bodies at the prevailing rates applicable on the date of receipt of tender shall be fully borne by the Contractor and shall not be reimbursed to him on any account. The tender shall be inclusive of all taxes levies as mentioned in 1.7 above.</p> <p>Further DFCCIL shall not honour any claim arising out of any increase in any of the prevailing statutory duties, taxes, levies, octroi, etc. At the time of quoting/bidding contractor should bear the above fact in mind. The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to DFCCIL immediately after the award of contract, without which no payment shall be released to the contractor. The contractor shall be responsible for deposition of applicable GST to the concerned authority.</p>
50.0	<p>EXCISE DUTY OR ANY OTHER TAXES/DUTIES:</p> <p>The contractor shall bear full taxes /duties levied by state government and / or Central Government/ Local bodies from time to time. This would be entirely a matter between the contractor and the State / Central Government/ Local bodies. No claim, what so ever, on this account shall be entertained by DFCCIL.</p>
51.0	<p>ROAD TAX CHARGES:</p> <p>Road Tax/Charges levied by Government for movement of vehicles of contractor, used in transportation, shall be borne by the contractor and no re-imbursement on this account will be made by the DFCCIL.</p>

52.0	FOREIGN EXCHANGE REQUIREMENTS: Any demand of foreign exchange for importing of equipment's and materials shall not be accepted.
53.0	ANTI PROFITEERING CLAUSE: - The contractor should adhere to anti profiteering provisions as per section 171 of the CGST Act. Where due to change in the rates GST/Change in law, the contractor gets any credits/benefits, the same shall be passed on to DFCCIL by way of reduction in prices.
54.0	INTEGRITY PACT:- As per office memorandum no F. No DPE/13(12)/11-Fin Dated 09.09.2011 issued by Ministry of Heavy Industries (DPE) all PSU should enter into Integrity pact in the required proforma in their procurement transaction/ Contracts with suitable changes specific to the situation in which the pact is to be used. The pact, entering into which would be a preliminary qualification for any bidder, essentially envisages an agreement between the prospective vendors / bidders and the DFCCIL, committing the persons/ officials on both sides not to resort to any corrupt practices in any aspect / stage of the contract. A copy of pre contract integrity pact is enclosed as form no 4 for signature of bidder as acceptance, as and when Independent External monitor is appointed.
55.0	TOOLS- Until and unless specifically mentioned in the special condition and scope of work/explanatory notes , tools required for this work will be arranged by the contractor. <ol style="list-style-type: none"> All the tools and plants as required to execute the work will be arranged by contractor at his cost and nothing extra shall be paid on this account. The contractor will ensure reconditioning / repair of the tools and plants at his own cost to keep them fit for use. He will repair the worn out tools at his own cost and nothing extra will be paid on this account. The contractor should ensure that labour on work removes their tools clear of the track on the approach of the train. After the day's work the contractor should secure tools in proper tool boxes and in no case the labour be permitted to take tools to their homes. Tools should not be allowed to fall in unwanted hands who can tamper with the Railway/DFCCIL track. In the event of accident at the work site the departmental enquiry will be held and in case it is established that derailment/accident has occurred on account of the contractor's negligence or the negligence of his men, damages as mentioned in the clause of penalty will be recovered.

56.0	<p>PENALTY –</p> <p>(a) In the event of accident at the work site the departmental enquiry will be held and in case it is established that derailment/accident has occurred on account of the contractor's negligence or the negligence of his men, damages at the following rates will be recovered from contractor: - Accident involving use of accident Relief train = Rs.50000/- Nominal accident not involving use of accident relief train Rs. 10000/-</p> <p>(b) Penalty for an amount of Rs. 500/- to Rs.2000/- depending on the nature of unsatisfactory service, will be deducted from the due amount in the following conditions:</p> <ul style="list-style-type: none">Any undisciplined behavior by the staff.Discourteous behavior towards any officer or staff of DFCCIL.Not wearing proper Safety PPE Kit.Not carrying out the duties listed in the scope of work in a satisfactory Manner.Damage or stealing of any asset or property of DFCCIL or officers and staff of DFCCIL <p>(c) Penalty for some of the breaches in services will be as follows: -</p> <table><tr><th>S.N</th><th>Type of breaches</th><th>Amount of Penalty</th></tr><tr><td>1</td><td>Staff not in proper PPE Kit.</td><td>Rs.50/- per staff per day</td></tr><tr><td>2</td><td>Staff turn up late</td><td>Rs. 100/- per staff per Hour (After one hour late staff will not be allow to work)</td></tr><tr><td>3</td><td>Failure to provide replacement in Time</td><td>Rs.100/- per staff per day</td></tr></table>	S.N	Type of breaches	Amount of Penalty	1	Staff not in proper PPE Kit.	Rs.50/- per staff per day	2	Staff turn up late	Rs. 100/- per staff per Hour (After one hour late staff will not be allow to work)	3	Failure to provide replacement in Time	Rs.100/- per staff per day
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57.0	<p>WORKING HOURS OF PERSONS/ SUPERVISOR :-</p> <p>Contractor shall provide the staff on all days of the months. The working hours of workman shall be 8 hrs in 24 hours or as specified in the schedule, However, timings may be advised without any overall impact on the period of duty as per DFCCIL requirement.</p>												
58.0	<p>DFCCIL not to Provide Quarters for Contractors: No quarters shall normally be provided by the Railway for the accommodation of the Contractor or any of his staff employed on the work. In exceptional cases where accommodation is provided to the Contractor at the Railway's discretion, recoveries shall be made at such rates as may be fixed by the Railway for the full rent of the buildings and equipments therein as well as charges for electric current, water supply and conservancy.</p>												
59.0	<p>In case the services of the Contractor are not found satisfactory, or there is a breach of any of the terms & conditions of the contract and/or fails/neglects to carry out any instruction issued to it by DFCCIL from time to time the same can be terminated by DFCCIL on giving of a notice of one month. In case of unsatisfactory performance of the contract, a warning letter will be issued to the Contractor. In case corrective action is not taken, DFCCIL shall have the right to terminate the agreement without any further notice. Unsatisfactory service in this case would be frequent absence or poor attendance of workman, inability to provide replacement, lackadaisical work in maintaining cleanliness, indiscipline in</p>												

	<p>the premises (which includes taking alcohol, using foul language, getting involved in objectionable activities, etc.) or any other non-compliance of the provisions of the Agreement.</p> <p>The Contractor shall not terminate the services of hired staff unilaterally. In case any hired staff is proposed to be replaced/ terminated by the Contractor, such action should be taken only with approval of DFCCIL.</p>
60.0	<p>SITE OFFICE:-</p> <p>The Contractor shall establish the camp office at site and keep on the works at all times efficient and competent staff to give the necessary directions to his workmen and to see that they execute their work in sound proper manner and shall employ only such supervisors, workmen & laborers in or about the execution of any of these works as are careful and skilled in the various trades. The Camp office shall be completely equipped for office working with provision of sufficient T&Ps, Office Equipment, accessories including advance version of PCs, printer, Fax, mail, phone etc and also with facilities like sitting, drinking water etc. The area of the office and facilities required must be sufficient enough to ensure effective office working at site office itself without any difficulties and issues. Suitable site on railway land, if conveniently available, may be allowed to the contractor for setting up the site office, site laboratory, either free of charge or on such terms and conditions that may be prescribed by DFCCIL.</p>

SPECIAL CONDITIONS OF CONTRACT (SAFETY PRECAUTIONS)

PART-V**SPECIAL CONDITIONS OF CONTRACT**
(SAFETY PRECAUTIONS)

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

	by sectional APM/DPM/PM/Dy.CPM
XIII.	Supplementary site specific instructions, wherever considered necessary shall be issued by the Engineer in Charge
XIV.	Standard Check list on Safety at Work Sites shall be used to ensure that all the requisite measures have been taken before start of work.
2.0	<u>PLYING OF ROAD VEHICLES AND WORKING OF MACHINERIES CLOSE TO RUNNING TRACKS</u>
(i)	Normally, the road vehicles shall be run or machinery shall be worked so as not to come closer than 6.0m from center line of nearest running track.
(ii)	The land strip adjacent to running tracks, where road vehicle is to ply or machinery is to work, shall be demarcated by lime in advance in consultation with the DFCCIL's Supervisor. Wooden pegs at interval not exceeding 75mts shall be provided along the line marking as permanent marks. The road vehicles shall ply or machinery shall work so as not to infringe the line of demarcation.
(iii)	If a road vehicle or machinery is to work closer to 6.0m due to site conditions or requirement of work, following precautions shall be observed.
a.	In no case the road vehicle shall run or machinery shall work at distance less than 3.5m from center line of track.
b.	Demarcation of land shall be done by bright colored ribbon/nylon cord suspended on 120 cm high wooden/bamboo posts at distance of 3.5 m from center line of nearest running track.
c.	Presence of an authorized DFCCIL's representative shall be ensured before plying of vehicle or working of machinery.
d.	DFCCIL's Supervisor shall issue suitable caution order to Drivers of approaching train about road vehicles plying or machineries working close to running tracks. The train drivers shall be advised to whistle freely to warn about the approaching train. Whistle boards shall be provided wherever considered necessary.
e.	Lookout men shall be posted along the track at a distance of 800m from such locations who will carry red flag and whistles to warn the road vehicle/machinery users about the approaching trains. Lookout man shall be deputed for Safety at Work Sites.
f.	On curves where visibility is poor, additional lookout men shall be posted.
(iv)	If vehicle/machinery is to be worked closer to 3.5m from running track. Under unavoidable conditions, if road vehicles is to play or machinery is to work closer to 3.5m due to site conditions or requirement of work, following precautions shall be observed.
a.	Plying of vehicles or working of machinery closer to 3.5m of running track shall be done only under protection of track. Traffic block shall be imposed wherever considered necessary. The site shall be protected as per provisions of Para No. 806 & 807 of P-Way Manual as case may be.
b.	Presence of a DFCCIL's Supervisor shall be ensured at worksite.
c.	DFCCIL's Supervisor shall issue suitable caution order to Drivers of approaching train about road vehicles plying or machineries working close to running tracks. The train drivers shall be advised to whistle freely to warn about the approaching train.
(v)	Precaution to be taken while reversing road vehicle alongside the track. The location where vehicle will take a turn shall be demarcated duly approved by DFCCIL's representative. The road vehicle driver shall always face the DFCCIL track during the course of turning/reversing his vehicle. Presence of an authorized DFCCIL representative shall be ensured at such location.

(vi)	Road vehicle shall not be allowed to run along the track during night hours generally. In unavoidable situations, however, vehicles shall be allowed to work during night hours only in the presence of an authorized DFCCIL's representative and where adequate lighting arrangements are made and where adequate precautions as mentioned earlier have been ensured.
(vii)	Road vehicles/machinery/plant etc. when stabled near running tracks shall be properly secured against any possible roll off and always be manned even during off hours.
3.0	<u>EXECUTION OF WORKS CLOSE TO OR ON RUNNING LINES</u> Any work close to or on running tracks shall be executed under the presence of a DFCCIL's Supervisor only.
(i)	Precaution to be taken to ensure safety of trains while execution of work close to the running line or on running lines.
(a)	Contractor has deputed trained supervisors in required number at worksites duly certified by APM/DPM/PM/Dy. CPM in charge of the works.
(b)	Drivers of vehicle/operators of the machines have been briefed about the safety and precautions to be taken while moving / working close to traffic.
(c)	Contractor shall ply road vehicles/working of machinery only between sunset and sunrise. In case of emergency where it is necessary to work during night hours sufficient lighting shall be ensured in the complete work area for the safety of public and passengers. Also additional staff shall be posted as necessary for night working and taking safety precautions.
(d)	The contractor shall not change the approved vehicle/machinery and driver/operator for working at site. Contractor shall not induct any new vehicle/machinery and driver/operator without prior written approval of APM/DPM and the list of such changes with numbers of individual vehicle, name and license particulars of the driver shall be given to APM/DPM/PM/Dy. CPM of the section.
(e)	Contractor shall ensure that road vehicle/machinery ply/work in a way so that these do not infringe the line of demonstration.
(f)	Lookout men with required safety equipment shall be posted where necessary.
(g)	In unusual circumstances, where operator apprehends danger to track while working truck/machinery near running track, following action shall be taken.
a)	The contractor/supervisor/vehicle operator immediately advice the situation to DFCCIL official/officials of the organization executing the work and assist him/them in protecting the track.
b)	Protection shall be done as done for other emergencies
(h)	Individual vehicle/machinery shall not be left unattended at site of work. If it is unavoidable and becomes necessary to stable the road vehicle/machinery at site near the running track, these shall be properly secured against any possible roll off and always be manned even during non-working hours. In addition the road vehicle / machinery should be stabled parallel to track only so that incase of failure of any securing arrangement, it may not roll towards the track.
(i)	All temporary arrangements required to be made during execution of work shall be made in such a manner that moving dimensions do not infringe. Necessary checks shall be exercised by site in charge from time to time.
(j)	During the hours of night, lamps of temporary indicators which are not of reflective type should be lit at sun-set and kept burning till sun rise, where trains run at night.
(ii)	Precaution to be taken to ensure safety of electrical/signal/ telephone cables

	while excavating near tracks.
(a)	Particular care shall be taken to mark the locations of buried electrical/signal/telephone cables on the plans jointly with S & T/Electric supervisor and also at site so that these are not damaged during excavation
(b)	Copy of the cable plan should be given to the contractor's authorized representative before handing over the site to start the work.
(c)	Due care shall be taken to ensure that any part of the equipment or machinery or temporary arrangement does not come close to cables while working.
(iii)	Precaution to be taken during execution of works requiring traffic blocks.
a)	Any work, which infringes the moving dimensions or causes discontinuity in the track any activity making the existing track unsafe for passage of trains etc. Shall be started only after the traffic block has been imposed, DFCCIL servant in charge of the work is present at the worksite, engineering signals are exhibited at specified distance and flagmen are posted with necessary equipment to man them etc
b)	Before closing the work, the track shall be left with the proper track geometry so that the trains run safely and flagmen are kept in the night with safety and track protection equipment to patrol the stretch and take action to protect the track, if so warranted and inform the DFCCIL supervisors.
c)	After completion of work the released sleeper and fittings should be properly stacked away from the track to be kept clear of moving dimensions.
d)	Block shall be removed only when all the temporary arrangement, machineries, tools, plants etc. have been kept clear of moving dimensions.
(iv)	Precaution to be taken during execution of works during night. The work close to running line, generally, shall be carried out only during day hours. At locations, however, where night working is unavoidable, proper lighting arrangement should be made. The engineering indicator boards shall be lighted during night hours as per the provisions of IRPWM. The staff deputed for night working should have taken adequate rest before deploying them in night shift. We can specify duration of night shift from 20.00 hrs to 04.00 hrs. All other safety precautions applicable for day time work should be strictly observed during night working.
(v)	Precautions to be taken to ensure safety of workers while working close to running lines.
a)	Any work close to or on running tracks shall be executed under the presence of a DFCCIL's supervisor only.
b)	Precaution to be taken to ensure safety of trains while execution of work close to the running line or on running lines.
	<ul style="list-style-type: none"> (i) Such works shall be planned and necessary drawings particularly with regard to infringement to moving dimensions shall be finalized duly approved by competent authority before execution of work. The work shall be executed only as per approved procedure and drawings. (ii) All temporary arrangements required to be made during execution of work shall be made in such a manner that moving dimension do not infringe. (iii) Suitable speed restriction shall be imposed or Traffic block shall be ensured as required. (iv) The site shall be protected as per provisions of Para No. 806 & 807 of P.Way Manual as case may be. (v) Necessary equipment for safety of trains during emergency shall be kept ready

	at site.
c)	A 'first aid kit' shall always be kept ready at site.
(vi)	Precaution shall be taken for safety of public or passengers, while executing works at locations, used by passengers and public. The worksite shall be suitably demarcated to keep public and passengers away from work area. Necessary signage boards such as "Work in progress. Inconvenience is regretted" etc. shall be provided at appropriate locations to warn the public/ passengers. Adequate lighting arrangement of worksite wherever required shall be done to ensure safety of public/passengers during night.
(vii)	Precaution to be taken before stacking materials alongside the track to ensure that safety of trains is not affected. The following precautions shall be taken before stacking the materials along the track for stacking of ballast, rails, sleepers etc.
a)	The sites for material stacking should be selected in advance in such a manner as to ensure that no part of the material to be stacked is infringing the Standard Moving Dimensions. A plan of proposed stacking locations be made and signed jointly by an authorized DFCCIL's representative and contractor's representative.
b)	The selected locations shall be marked by lime in advance.
c)	Presence of an authorized DFCCIL's representative while unloading and stacking shall be ensured.
d)	The material shall be stacked in such a height so as to not to infringe SOD in case of accidental roll off.
(viii)	Precaution for handling of departmental material trains Instructions for working of material trains are contained in Chapter XII of IRPWM which should be brought to the notice of the supervisors and other staff working on the material trains. In addition to this, following precautions should be taken:
(a)	Issue of 'fit to run' certificate. As per Para 1207 before a material train is allowed to work, the complete rake should be examined by the Carriage and Wagon staff and a 'fit to run' certificate issued to the Guard.
(b)	As per Para 1208 of IRPWM, a qualified Engineering official should be deputed on the train to ensure working of the material train as the Guard is not qualified to carry out such duties like Supervising of loading and unloading of materials.
(c)	As per Para 1204 of IRPWM, the material train should not be permitted to work during the period of poor visibility due to fog, storm or any other cause except with the permission of the APM/DPM/PM/Dy. CPM. Working of the material trains carrying labour should not be permitted between sunset and sunrise except in an emergency.
(d)	While unloading rail panels by the side of the running track, placement of the panels, clear of the maximum moving dimensions should be ensured.
(e)	Unloading of rail panels should be done by a team of trained staff under the active supervision of competent Supervisor/Officer.
(f)	Before unloading of rail panels, site should be prepared by way of leveling/removing extra ballast, if any, from the crib and shoulder with the objective to ensure requisite lateral and vertical clearances so as to prevent slippage of rail panels due to vibration during the passage of trains.
(g)	Reasonably adequate block should be asked and provided for unloading of the material and the work should be done preferably in day light to avoid shortcut in haste which may infringe the safety requirements.
(ix)	SAFETY ASPECTS TO BE OBSERVED WHILE WORKING IN OHE AREA
(a)	No electrical work close to running track shall be carried out without permission of

	DFCCIL representative.
(b)	A minimum distance of 2m has to be maintained between live OHE wire and body part of worker or tools or metallic supports etc.
(c)	No electric connection etc. can be tapped from OHE.
(d)	Authorized OHE staff should invariably be present when the relaying work or any major work is carried out.
(e)	Power block is correctly taken and 'permit to work' is issued.
(f)	The structure bonds, track bonds, cross bonds, longitudinal rail bonds are not disturbed and
(g)	If disconnected for the work, they are reconnected properly when the work is completed.
(h)	The track level is not raised beyond the permissible limit during the work.
4.0	<u>PROTECTION OF TRACK DURING EMERGENCY</u>
(i)	<p>Action to be taken when a contractor's supervisor or vehicle operator apprehends any unusual circumstances likely to infringe the track and endanger safe running of trains. At any time if a contractor's supervisor or vehicle operator observes any unusual circumstances likely to infringe the track and apprehend danger to safe running of track, he shall take immediate steps to advise a DFCCIL official of such danger and assist him in protection of track.</p> <p>The track shall be protected as under. One person shall immediately plant a red flag (red lamp during night) at the spot and proceed with all haste in the direction of approaching train with a red flag in hand (red lamp during night) and plant a detonator on rail at a distance of 600m from the place of obstruction of BG track after which he shall further proceed for not less than 1200m from the place of obstruction from BG track and plant three detonators at 10m apart on rails. After this he shall display the red flag (red lamp during night) at a distance of 45m from the detonators.</p> <p>Attempts shall also be made to send an advice to nearest DFCCIL station about the incident immediately.</p>
(ii)	<p>Action to be taken if train is seen approaching to site of danger and there is no time to protect the track as per guidelines mentioned above.</p> <p>In such a case the detonators shall be planted on rails immediately at distance away from place of danger as far as possible and attention of driver of approaching train shall be invited by whistling, waving the red flag vigorously, gesticulating and shouting.</p>
(iii)	Action to be taken if more than one track is obstructed.
a)	In case of single line protection as above shall be done in both the directions from place of danger.
b)	<p>In case of double line or multiple lines, if other tracks are also obstructed, the protection as above shall be done for other track also.</p> <p>The protection shall be done in that direction and on that track first on which train is likely to arrive first.</p>
c)	The Contractor's Supervisors, Operators and lookout men shall be properly explained about the direction of trains on running tracks.
(iv)	<p>Equipment required for protection of track.</p> <p>Minimum compliment of protection equipment i.e. 10 detonators, 4 red hand flags, 4 red hand lamps, 4 banner flags and whistles etc. shall always be kept ready at worksites for use in case of emergency. DFCCIL will arrange to provide detonators, whereas Contractor shall arrange other equipment at his own cost.</p>

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

	<p>responsible. Contractor's reply to show cause notice will be considered by the Engineer in Charge before taking final decision. In case contractor is found responsible for the mishap, recovery from him will be affected for only tangible direct losses.</p>
	<p style="text-align: right;"><u>Annexure-A</u></p> <p style="text-align: center;"><u>Competency Certificate</u></p> <p>Certified that Shri _____ Supervisor/Operator of M/s. _____ has been trained and examined in safety measures to be followed while working in the vicinity of running DFCCIL track for the work _____. His knowledge has been found satisfactory and he is capable of supervising the work safely.</p> <p>This certificate is valid only for the work mentioned in this certificate only.</p> <p style="text-align: right;">Signature and designation of the officer</p>

SPECIAL CONDITIONS OF CONTRACT (TECHNICAL)

PART-VI

Part A

SPECIAL CONDITIONS OF CONTRACT (TECHNICAL)

1.0 SCOPE OF WORK -

The scope of work includes “Maintenance of 2 x 25kV Power Supply Installations on Madar-Iqbalgarh section of DFCCIL including IR connecting lines, for a period of 24 (Twenty-Four) months under CGM/ GM-Co./DFCCIL Ajmer Unit.”

2.0 Preamble:

The contract is aimed to carry out preventive maintenance activities for Power Supply Installations (PSI) on Madar- Iqbalgarh section as per schedule laid down in this tender document. The maintenance activities involve checking of PSI installation by visual examinations, tightness of fasteners, testing & recording required parameters with the help of instruments/Kits, rectification of any defects, correction in parameter, adjustment work, replacement of defective parts, provision of deficient parts, and reporting major defect/ abnormalities in time to avoid any failure/breakdown.

The maintenance work shall be carried out as per laid down schedules in this tender, however the successful tenderer may be asked to comply special maintenance instructions as per latest technical developments. The contractor shall make himself conversant with maintenance guidelines of OEMs of equipments, maintenance instructions of RDSO and prevailing practices in various Railways. The contractor is supposed to adopt best maintenance practices so as to insure 100% reliability and availability of Power Supply Installations.

Best endeavors shall be made to avoid any outage/ breakdown of any PSI Equipments.

3.0 Brief details of 2x 25KV PSI & Traction System in Madar Iqbalgarh section-

3.1 Power Supply Installations:

- (i) 06 nos. 220KV /2x25KV TSSs at Mangliyawas (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 Srimirgadh (02 nos. traction transformer) with 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.
- (ii) 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.
- (iii) 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.
- (iv) 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.

The subject tender is for maintenance/ breakdown attention of all the equipments situated at above TSS and SCPs.

3.2 Over Head Equipements:

- (i) On main line High Rise OHE with 125 Sqmm catenary and 150 Sqmm contact wire with 1200Kg tension in each wire, contact height 7.54 m, 5 Pulley ATD, Modified DFCCIL type Cantilever, Composite Insulators, steel/ copper anticreep.
- (ii) On loop lines High Rise OHE with 65 Sqmm catenary and 107 Sqmm contact wire with 1000Kg tension in each wire, contact height 7.54 m, 3 Pulley ATD, IR type Cantilever, Composite Insulators, steel/ copper anticreep.
- (iii) 25 KV along track feeder (AAC)
- (iv) Aerial Earth conductor (AEC- ACSR- 288 Sqmm)
- (v) Buried Earth Conductor (BEC, Galvanised Steel conductor -182 Sqmm)
- (vi) Bonding & Earthing as per approved E&B plan.
- (vii) OHE Structures viz. Mast, Portals, Super Mast, Cross Arm, AT Structure, TTC, Gantry Structure, SPS etc.
- (viii) OHE Mast on Bridge Piers along with spare rag bolts.
- (ix) PTFE type short Neutral section with associates caution boards
- (x) IOLs, UIOLs, Section Insulators (Galland make and IR type)
- (xi) Various caution boards viz. Number plates, Unwired turn out boards, Neutral section Boards, Power block Limit boards, Electric Engine stop board, restricted clearance board, 25 KV danger boards, Sigma Boards for foggy weather etc.

3.3 Auxiliary Power Supply system for ALH/TH and Stations:

- (i) 02 Nos. Auxiliary Transformer (25 KV/ 240 V) for each crossing / Junction stations (50KVA for crossing Station and 100KVA for Junction Stations.) with twin 2C x 150 sqmm aluminum conductor, XLPE insulated cables upto ACO panel in S&T Power Supply room, including ACO panels.
- (ii) 02 Nos. Auxiliary Transformer (25 KV/ 240 V) for each ALH/TH (25KVA) with single 2C x 150 sqmm aluminum conductor, XLPE insulated cables upto ACO panel in ALH/TH, including ACO panels.

3.4 SCADA:

SCADA system has been provided to control power supply system through remote control from OCC. TPC organization has been set at OCC to grant power blocks and carry out operations of various equipments.

4. (A) Maintenance Infrastructure of DFCCIL:

- (i) 03 no. IMDs (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. DFCCIL will keep required tools & plants and materials at these IMDs/ IMSDs.
- (ii) 03 nos. 08 wheelers Tower Wagons with drivers at New Saradhana, New Marwar and New Keshavganj IMDs.
- (iii) 03 nos. Emergency Van with driver at IMDs New Saradhana, New Marwar and New Keshavganj IMDs

- (iv) Vehicle mounted Oil filtration machines (02 Nos.) (In case provided by DFCCIL, no rates will be payable for oil filtration.)

4 (B) Maintenance Strategy under this contract:

- (i) **The subject tender is for maintenance & breakdown attention for Power supply equipments situated at TSS and SCPs only. OHE, Auxiliary TRF for ALH/TH/stations, 33 KV cables, SCADA etc. are not in the scope of this tender.**
- (ii) The Truck/ Emergency Van / mini truck with driver will be provided by DFCCIL for Movement of PSI maintenance gangs from nominated IMD/IMSDs to work place and back in normal as well as emergent situation. However, contractor shall arrange his own transportation for his staff from their residences to IMDs/IMSDs and back.
- (iii) The tools & plants/ instruments/ testing kits maintained by the DFCCIL at IMDs/ IMSDs will be issued to contractor on loan as per requirement of work.. The contractor shall keep these T&Ps in his custody and return to DFCCIL daily after work completion. He shall handle the items in reasonable in good manner to avoid any damage or loss. DFCCIL will recover the cost of lost/damage items due to negligence of contractor staff.
It may be noted that few instruments / testing kits like CB Analyzer, Meggers, CB operation Timers, Relay testing kits, Cable fault locator, thermo vision camera, Tan- Delta & capacitance testing kit etc are very delicate and high value equipments. This shall be handled with utmost care to prevent any failure/ damage. Further these equipments shall be used for necessary measurement and testing by highly skilled staff having good experience in this regard. Contractor shall be fully responsible for any damage caused to above equipments and DFCCIL may recover cost of repair/ replacement if equipment fails due to negligence of contractor staff.
- (iv) 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 to contractor staff . The details of location where material has been used shall be given in daily progress report jointly signed by DFCCIL site representative and contractor staff.
- (v) The released material received from site shall be handed over to DFCCIL incharge at IMD/IMSD. The details of locations from where material released, shall be given in daily progress report.
- (vi) The daily loading/ unloading of T&P items, instruments/ testing kits, PSI fittings , PSI material in the truck, emergency Van , camper as required for carrying out maintenance / breakdown attention form IMD/IMSD to work site and back, shall be in the contractors scope. The maintenance teams shall be assigned this work for which no additional rates will be payable.
- (vii) **The contractor shall submit planning of carrying out PSI maintenance schedules IMD/ IMSD wise with requirement of power cum traffic blocks, Permit to Work, Grid Shutdown, T&P and spares/ materials as soon as the contract is awarded. The planning shall be comprehensive to complete schedule maintenance of all the PSI assets in first year of contract. No asset/ maintenance activity shall be left out.**
- (viii) Permit to Work/ Power cum Traffic block for various PSI maintenance activities shall be arranged by DFCCIL normally in daytime or sometimes in nighttime as per slot available in the section. No additional payment will be made for night working. Normally maintenance blocks/ PTW are provided during corridor block as per decision of DFCCIL time to time. The block timing keep on changing as per weather condition, traffic pattern etc. The contractor shall insure that his staff reaches at work place well in time.

- (ix) The power cum traffic block will be taken by authorized staff of DFCCIL. The contractor staff shall ensure all safety measures i.e. use of safety equipments (Helmet, PPE Kit, Safety shoes, safety belts etc), provision of discharge rod on OHE, Bus- bars and feeder wire. In case works is to be done under traffic block, fixing of banner flag, detonators etc shall be done by contractor as per guidance of DFCCIL. The contractor shall complete the work within allowed block/PTW timings and help returning power cum traffic block/PTW in time.
- (x) In case of any breakdown, contractor staff will be asked to report IMDs/IMSDs within short period of time i.e. within 20 minutes in day time and 25 minutes in night time of giving call to supervisor of contractor. Further the contractor shall make best efforts with enthusiasm to restore the breakdown in minimum possible time.
- (xi) The contractor shall keep required numbers of staff in each IMD section. In case any shortage is noticed, DFCCIL may impose penalty in this regard.
- (xii) The contractor staff shall carry out each maintenance activity carefully ensuring quality of maintenance. Any defect noticed shall be rectified on same day or next day so that no breakdown takes place. The activities and testing as prescribed in monthly, quarterly, half yearly and yearly schedule shall be compulsorily completed. Any omission in this regard will be viewed seriously and if any negligence is found on the part of contractor same shall be subjected to penalty.
- (xiii) Each maintenance team/ staff shall submit daily progress report giving details of Power cum Traffic Block/ PTW availed, Name of staff, Maintenance work done with parameter recorded, testing done, material provided / released and defects noticed / rectified. The report shall be prepared in 02 copies and 01 copy shall be kept by DFCCIL and contractor. Copy of the DPR format is enclosed with this tender documents. **Contractor shall enclose details of maintenance carried out for each equipment in maintenance sheet as per format of maintenance schedule given in Annexure –Z of this tender document. Contractor shall print maintenance sheet as per requirement at his own cost. The details of maintenance done and value recorded shall be mentioned in this maintenance sheet. The DPR duly enclosed with maintenance sheets shall be submitted in two copies to IMD/IMSD in charge by 17:00 hrs of the day of maintenance.**
- (xiv) The each activity of PSI maintenance shall be completed in time bound manner. Contractor shall ensure that each type of maintenance schedule is completed in specified period.
The contractor shall complete each schedule in reasonable time. Additional time may be taken in case of any defect noticed however in no case allowed block / PTW should be bursted.
- (xv) Various schedules i.e. fortnightly, monthly, quarterly, half yearly and yearly shall be carried out at specified time i.e. at the time of completion of schedule time after previous maintenance schedule. For ex. Monthly schedule of any equipment shall be carried out at the time of completion of 30 days from previous maintenance date. Preponed or delayed maintenance will be viewed adversely.
- (xvi) Special Checks & Preventive maintenance of the 2x25 kV A.C. PSI Equipment under Power Block/ PTW should be carried out 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.
- (xvii) Explanatory notes are given below for each item of maintenance which shall be followed. The activities to be done and parameters to be recorded have been given. Contractor staff shall record parameter and submit with daily progress report.

- (xviii) 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.
- (xix) 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.
- (xx) 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
- (xxi) 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.
- (xxii) Explanatory note for various items of works in the Schedule of item, quantities and prices are given below. The Checking and maintenance of all equipments of PSI as the case may be shall be carried out in line with maintenance manual and as per Latest SMIs of RDSO/DFCCIL if any, during contract period OR as per the Procedure in vogue in TrD organization. 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 CGM/GM-Co. Ajmer is the final and contractor is bound to act accordingly.
- (xxiii) The special condition & Technical specifications for schedule items are enclosed and Tenderer shall go through them thoroughly before submitting offer.
- (xxiv) Power cum Traffic block/PTW/ Shutdown 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.
- (xxv) The maintenance activity shall be carried out with the help of required team strength of supervisory, high skilled , semi-skilled and unskilled staff. The team strength shall be adequate to undertake the various maintenance and rectification work. Large teams may be used for optimum use of available blocks/ PTW.
- (xxvi) The contractor shall give the names and qualifications of each staff to be employed by him for maintenance and breakdown attention. The proposed staff will be examined for their suitability by a committee of DyPM/Elect and Executive/Elect and can be deployed on being found suitable by the committee.
- (xxvii) The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer for each maintenance activity. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL. The payment will be released based on these Progress Report/Maintenance sheets.
- (xxviii) As the Contractor's each gang of staff is head quartered at respective TSS, the TSS yard shall be maintained vegetation free for which no additional payments are admissible.
- (xxix) In the rainy season, there would be need to pump out rainy water accumulated in oil sumps, cable trenches and nearby area at TSS and SCPs. Contractor shall promptly send staff for this work as and when required. Water pumps will be given by DFCCIL.
- (xxx) Contractor shall keep the TSS neat and clean all the times during currency of contract. He shall arrange to broom and mop the floors of TSS building all rooms. He shall clean the toilets on daily

basis for which all items will be supplied by DFCCIL. The oil sumps shall be cleaned after rainy season after pumping out water.

5.0 TIME SCHEDULE

5.1. TIME OF START AND COMPLETION

1. The subject maintenance contract is for period of **24 (Twenty Four) 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. The probable date of start of services will be within 15 days from the date of issue of LOA.
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.

6.1 Manpower Organization: The Contractor is required to deploy Supervisors, Technicians and Helpers round the clock for all PSI maintenance activities and shall ensure the required minimum educational qualifications & experience for his deployed Supervisors, Technicians and Helpers. The Tenderer shall have adequate Manpower Organization required for the execution of the tendered work.

The details are given below :

- (i) Manpower deployed by the Contractor: The Contractor should employ the following personnel for execution of the contract/ maintenance work, with the minimum qualification & experience as given in the para 6.2 (a) below:
 - (a) Supervisor In-charge
 - (b) Asst. Supervisor
 - (c) Technicians/Fitters (Highly Skilled)
 - (d) Skilled
 - (e) Semi Skilled (PSI)
 - (f) Helpers (Un-Skilled)
- (iii) The contractor shall maintain the minimum manpower at the PSI depots /TSS as under apart from Break down Gangs in Schedule-05:

Category of staff	IMD/ SDHN	IMSD/ HRPN	IMD/ MJND	IMD/ KVJN	IMSD/ SRPD	IMSD/ SIMN	Total
Supervisor	1	0	1	1	0	1	04
Asst. Supervisor	1	1	1	1	1	1	06
Highly Skilled/Skilled	4	4	4	4	4	4	24
Unskilled/Helper	5	5	5	5	5	5	30
Total	11	10	11	11	10	11	64

Note (i) In case the deployed Supervisor will take leave or out of his headquarters, contractor will deploy another employee/s having equivalent educational & experienced as “Supervisor” for the work. At no time the gang shall be permitted to work at site without contractor’s supervisor. (ii) Above staff does not include staff deployed for TSS/SCP manning, battery maintenance and housekeeping.

(iv) **Required gang size:**

The contractor shall maintain minimum gang size and further should proportionately increase the size of the gang (i.e. Technicians and Helpers) during major maintenance activity/ Jumbo long blocks/Break down/ night working/ special engineering works to cater the requirements. The contractor shall work out manpower requirement to comply with various schedules of all the equipments and access workmen requirement .

(v) **Suitable reliever:**

Since HIGH RISE 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.

6.2. Qualification of the contractor’s Personnel for 2x25kV HIGH RISE OHE Maintenance work:

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

- (i) **Supervisor-in-Charge/ Design Engineer:** The supervisory staff posted by the contractor should at least be Engineering degree holder in Electrical/ Mechanical/ Electronics/computer discipline OR Diploma in Electrical / Mechanical / Electronics / Computer engineering & should have 3 years’ experience in similar works

OR

Should have worked at the supervisory level (SSE/JE of OHE/PSI/RC) in Railway for a minimum period of 3 years.

- (ii) **Assistant Supervisor:** Assistant supervisory staff posted by the contractor should at least be Diploma in Electrical/Mechanical/Electronics/Computer Engineering & should have 1 year experience in similar works.

OR should have worked at the Assistant supervisory level (JE/Sr. Tech of OHE/PSI/RC) in Railway for a minimum period of 1 year.

- (iii) **Technician/Fitter (Highly Skilled & Skilled):** Should have certificate of ITI issued by any recognized institution and with minimum 3 years’ experience in relevant field OR Should have worked as OHE/PSI technician in Railways for a minimum period of 2 years

OR 5 Years’ Experience in the relevant OHE field.

- (iv) Semi-Skilled: Should have passed Matriculation and have minimum 3 years' experience in relevant field.
- (v) Unskilled: Should have minimum 2 years' experience in the relevant field.

Note:1 Photostat copies above educational qualification Certificates shall be self-attested by the concerned person. The certificate of experience shall be submitted duly countersigned by the successful tenderer.

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

The contractor is supposed to engage various type of staff capable of carrying out maintenance activities independently. Generally no technical/ on the job training will be given by DFCCIL. However, General acquaintance and Safety training for the Contractor's personnel will be given free of cost by DFCCIL. The training for different level of staff will be different and shall be decided by GM/EL. However necessary catalog/ manuals will be provided by DFCCIL.

(c) Scrutiny of 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.PM/EL/DFCCIL and Executive in-charge of IMD. Candidates found suitable shall be issued "competency certificate" by Dy.PM/EL/DFCCIL and Executive incharge of IMD 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.

6.3 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

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.

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

6.4 Medical fitness certificates:

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.

6.5 Police verification:

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

6.6 Competency Certificate operation of 25 kV 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.

6.7 Commencement of PSI equipment Maintenance Contract at field:

The contractor shall commence HIGH RISE PSI equipment maintenance work at field within 15 days from date of issue of LOA of subject HIGH RISE OHE and accordingly the completion period of contract (Twenty Four Months) will be reckoned.

6.8 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.

6.9 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 PSI 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 60 years as on date of commencement of work.

6.10 UNIFORM: Orange colour dungaree / all over 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.

6.11 Safety during OHE/PSI 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 provide safety gadgets like safety belts, shockproof safety shoes, PPE Kit, helmets etc. to all his site staff. Further contractor shall provide uniform with rain coat/ umbrella, winter cloths, jackets, hand gloves to his staff so that they can work in all the weathers. The contractor shall provide two red banner flags, two sets of hand flags and detonators (01 box) to each gang at his own cost. The contractor shall provide First Aid Box filled with all required medicine to each gang.

The required items for cleaning viz. soaps, kerosene, jute, dungri cloths, duster etc shall be provided by contractor for personal use of his staff.

Contractor shall provide small office setup at one place in the section with necessary furniture, computer, stationary items as required to deal with technical and general correspondences/ office work in this contract.

- (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/battery maintenance/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.

6.12 Progress Monitoring of Maintenance Schedule:

Progress of PSI maintenance shall cover all the equipments at TSS & SCPs uniformly. Contractor shall ensure all the schedules at each TSS & SCPs and their shall not be any delay in maintenance.

6.13 Tools and plants management:

- (a) The required Tools & plants/Instruments for each IMD/IMSD (06 nos.), will be issued by DFCCIL which should be owned and maintained by the contractor in good working order .
- (b) In case any additional tools and plants, zigs as required other than the tools for maintenance of the HIGH RISE OHE/PSI shall be arranged by the contractor at his own cost .

DFCCIL may not give all the minor T&P items i.e. hand tools (spanners, screw driver, pipe wrench, hexa frame, plum bob etc.), measuring tapes, sprit level, special zigs, hooks, other minor items. Contractor shall have adequate stock of such items and shall be provided to his work teams as and when required. These T&P items shall be property of contractor and retained by him after completion of contract.

Contractor may be asked to fabricate any special zig at IMD for which material will be given by DFCCIL.

Suitable marking / painting shall be done on all the T&P items for easy identification.

- (c) Periodical load testing/calibration of tools, tackles, plants shall be carried out to ensure healthiness and safety of equipment duly maintaining testing record equipment wise. Contractor has to ensure to taking over the load bearing T&P items after jointly testing the equipments with Railway Supervisor. Similarly meters/instruments shall be taken over in good working order. There after these T&P items, meters/instruments will be maintained in good working condition by the contractor during entire contract period.
- (d) Each Gang shall maintain and carry tool boxes having full set of required tools. These tool boxes shall be arranged by the contractor.

The RECONCILIATION OF MATERIALS SUPPLIED BY THE DFCCIL: All the material supplied by the DFCCIL and also released from the existing OHE/PSI maintenance shall be correctly accounted for and quantities reconciled on completion of the work by the contractor. On completion of work, all surplus materials supplied by the DFCCIL together with the ones found defective or that have become defective or broken on account of manufacture defect, will be handed over to concerned OHE/PSI depot.

6.14 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/PSI 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 HIGH RISE OHE/PSI material/parts (spares) used during maintenance / breakdowns shall be recorded location wise in the format of work progress and should be jointly signed by contractor and DFCCIL representative for proper accountable of inventory.
- (e) DFCCIL will recoup, the consumed material/parts (spares) duly placing issue challan/voucher to the contract supervisor who shall be responsible to ensure the minimum quantity emergency spares is always available.
- (f) All released materials shall be properly accounted location wise and returned to DFCCIL by return challan at the nominated purchaser's depot.
- (g) List of spares to be maintained by the contractor at his depot is to be jointly finalized by the DFCCIL & contractor at the time of agreement. The contractor at his own cost maintain a depot for stacking of issued material in respective IMD/IMSD.
- (h) Transportation of the purchaser supply materials from the nominated stores of the purchaser to the working site and vice-versa will be the responsibility of the contractor, whether specifically mentioned or not. DFCCIL will not give any transportation expense for transportation of these materials to the working site. The receipt of storage of materials at the main and sub-depots shall be so planned as to avoid transport of materials between the main and sub-depot/s and vice versa to the maximum extent possible.

6.16 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 DFCCIL: All the material supplied by the purchaser and also released from the existing 2x25kV HIGH RISE OHE installations & Power Supply Installation shall be correctly accounted for and quantities reconciled on completion of the work by the contractor.
- (c) On completion of work, all surplus materials supplied by the purchaser together with the ones found defective or that have become defective or broken on account of defective materials, the surplus DFCCIL supplied material to be handed over to concerned depot. For the purpose of measurement of 2x25kV HIGH RISE OHE& PSI equipment, the length of the conductor will be taken from termination to termination and erection tolerance of 0.5% will be allowed.
- (d) Release of the Guarantee Bond for Indemnification: After according approval to the “Materials Reconciliation Statement “Guarantee Bond for Indemnification will be released with approval of CGM/AII of respective unit.

6.17 Contractor Vehicles: The vehicles used by contractor must be fully & comprehensively insured covering the risk to the Driver & all passengers also All kinds of repairs/maintenance costs, charges of fuels, oil, lubricant, mobile phone charges, fee towards licenses /registration taxes, challans, salary/overtime of the driver, insurance premium etc. are responsibility of the contractor and shall be borne by the contractor all along the contract duration,

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

6.20 POWER BLOCKS AND PERMITS-TO-WORK:

Obtaining “Power Block, Permit-To-Work (PTW) ” 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/PTW 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/PTW 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' who shall ensure earthing the electrical equipment specified and hand over a permit-to-work card to the person in-charge of the work of Contractor and shall get 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 of Contractor 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.

6.21. 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. He shall have copies of sectioning diagrams/Schematic diagrams of TSS, SCPs and any other drawing in his possession. DFCCIL will provide soft copies of relevant drawings. Contractor shall be responsible to make coloured printouts and distribute to all Supervisors/ other staff as required.
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.

6.22 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.

6.23. 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 /PSI 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/PSI 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/PSI, 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.

6.24. 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.

7.0 NON-PERFORMANCE OF THE CONTRACT CONDITIONS

7.1 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 for every hour of power block utilized , bursting of power block and proved in joint findings a penalty of Rs.20,000/- on flat rate basis per occasion. For power block burst less than or more than hour, penalty shall be imposed on pro-rata basis. 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& PSI installations "over and above" to the quantities provided under "Scope of the work and Special conditions", if supplied by DFCCIL in Break downs, the contractor should liable for safe return of the same. If the contractor fails to return such materials, the cost of such materials will be recovered at twice the book rate or twice the market rate enhanced by 5000/- per incident for integrity breach.
- F) Recovery Due To fails to return unutilized DFCCIL supply materials:** The material issued to the deployed staff for maintenance/replacement of existing HIGH RISE OHE on day to day basis before leaving to the work site as per programmed assigned by the depot in-charge, the unused materials and released materials should be handed over to the depot in-charge at depot premises after completion of day's work. If the contractor fails to return such materials, the cost of such materials will be recovered at twice the book rate or twice the market rate enhanced plus Rs 5000/- .
- G) Recovery Due To state of Intoxication:** While working, contractor's personnel should not smoke or consume any alcohol / liquor or be in a state of intoxication. In case if it is noticed any time that they are either smoking or under influence of intoxication, penalty of Rs. 10,000/- per occasion per incident shall be imposed to the contractor and the particular contractor's person shall not be allowed to duties further period of subject contract. The penalties as mentioned above may be imposed simultaneously.
- (I) Recovery due to delay in attending breakdown/failure:** The contractor shall ensure to report at respective IMD/IMSD within 20 min in day and 25 min in night of summoning time by respective DFCCIL staff/ Exe/Sr. Exe/JPM. If the contractor fails to report within above time period , a penalty of Rs 1000/- per hour of delay will be recovered per incidence.

A. Details of Equipments at TSS is under:

S. N.	Equipment Name	TSS						Total
		MLI	HPRN	MJND	FLN	SOH	SIMN	
1	Scott Transformer 60/84/100 MVA	1	2	1	2	1	2	9
2	220kV TP SF-6 Circuit Breaker	1	2	1	2	1	2	9
3	220 KV DP SF6 Circuit breaker	0	0		0	1	1	2
4	220kV Current Transformer (Protection)	3	6	3	6	5	8	31
5	220kV Current Transformer (Metering)	12	12	12	12	12	12	72
6	220kV Potential Transformer (Metering)	12	12	12	12	14	14	76
7	198 kV Lightning Arrester	9	12	9	12	9	12	63
8	220kV TP Motorised Isolator with or without Earth Heel	2	2	2	2	2	2	12
		2	3	2	3	2	3	15
9	220 KV DP isolator With or without Earthing heel)	0	0	0	0	2	2	4
10	55 KV (25 KV) Current transformers excl Auto TRF	4	8	4	8	4	8	36
		8	8	8	8	8	8	48
	PFC Bay (Excl. Neutral CT)	8	8	8	8	8	8	48
	25 kV Current Transformer (Auto TRF)	8	8	8	8	8	8	48
11	25 kV Neutral Current Transformer for cap bank	2	2	2	2	2	2	12
12	55/72.2 kV DP SF-6 Circuit Breaker SCOTT	2	4	2	4	2	4	18
	Feeder	4	4	4	4	4	4	24
	For PFC Bay	2	2	2	2	2	2	12
13	55 KV /72.2 KV Vacuum CB/ Int (BX)	2	2	2	2	2	2	12
14	55 /72.5 kV DP Motorised Isolator SCOTT	2	4	2	4	2	4	18
	Feeder	8	8	8	8	8	8	48
	BX	4	4	4	4	4	4	24
	PFC Bay	6	6	6	6	6	6	36
15	60 kV Lightning Arrester SCOTT	4	8	4	8	4	8	36
	42 kV Lightning Arrester	8	8	8	8	8	8	48
	PFC Bay 60 KV	4	4	4	4	4	4	24
16	55kV/27.5 kV, 12.3 MVA Auto Transformer	4	4	4	4	4	4	24
17	25 kV Potential Transformer (Protection)	4	4	4	4	4	4	24
18	25kV/240V, 100kVA LT	2	2	2	2	2	2	12

	Auxiliary							
20	55kV/0.65 kV, 3 MVA Transformer (Cap Bank)	2	2	2	2	2	2	12
21	2500 KVAR CAPACITOR BANK INCLUDING SERIES REACTOR	2	2	2	2	2	2	12
22	110 V 400 AH battery bank	1	1	1	1	1	1	6
23	Battery charger maintenance of TSS	2	2	2	2	2	2	12
24	Buried Rail Connection	8	8	8	8	8	8	48
25	Series reactor (PQCR)	2	2	2	2	2	2	12
26	Cap Bank	2	2	2	2	2	2	12

B. Equipment Details at SP, SSP, ATS and PPs is as under:

S. N.	Equipment Name	6 SPs	32 SSPs and ATS	4 PPS	Total
1	8 MVA Auto Transformer	24	24	0	48
2	25 kV DP Interrupter	48	151	4	203
3	25 kV DP Isolator (Manual)	72	278	8	358
4	25 kV SP Isolator (Manual)	0	8	0	8
5	25 kV Potential Transformer	24	40	0	64
6	42 kV Lightning Arrester	48	333	16	397
7	25kV/240V, 10kVA LT Auxiliary Transformer	12	64	8	84
8	25 kV SP Interrupter	0	6	0	6
9	25 kV CT for Auto Transformer	48	48	0	96

: 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)	Generally, All HIGH-RISE 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/GM-Co/AII, 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 PSI equipments including AOH & POH as case may be shall be carried out in line with maintenance manual and as per Latest SMIs if any during contract period OR as per the Procedure in vogue in TRD organization of respective sections. No additional payment will be made for any additional man power employment in attending to latest maintenance instructions if any. In-case of disputes between above standards if any, the decision of concerned CGM/GM/Co./AII 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 Tenderer shall go through them thoroughly before submitting offer.
i)	Power cum Traffic block/ PTW 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.
j)	<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>

TECHNICAL SPECIFICATION

PART-B

TECHNICAL SPECIFICATIONS

SCOPE OF WORK & EXPLANATORY NOTES

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

Schedule 1 Maintenance of Traction Sub Stations.

Item no. 01- Monthly Maintenance of 132/ 220 kV/55kV, 60/84/100 MVA Traction Power Transformer.

The job shall cover checking & Monthly maintenance of 132/ 220 kV/55kV, 60/84/100 MVA Traction Power Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 02-Half Yearly Maintenance of 132/ 220 kV/55kV, 60/84/100 MVA Traction Power Transformer.

The job shall cover checking & Half Yearly maintenance of 132/ 220 kV/55kV, 60/84/100 MVA Traction Power Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 03 -Yearly Maintenance of 132/ 220 kV/55kV, 60/84/100 MVA Traction Power Transformer.

The job shall cover checking & Yearly maintenance of 132/ 220 kV/55kV, 60/84/100 MVA Traction Power Transformer as per maintenance schedule given in Annexure-Z this tender document. The work involves checking, testing, measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 04 - Monthly Maintenance of 132/220kV TP SF-6 Circuit Breaker.

The job shall cover checking & Monthly maintenance of 132/220kV TP SF-6 Circuit Breaker.as per maintenance schedule given in Annexure Z of this tender document. The work involves checking, testing, measurements of various parameters as laid down in the schedule . The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 05 - Half Yearly Maintenance of 132/220kV TP SF-6 Circuit Breaker

The job shall cover checking & Half Yearly maintenance of 132/220kV TP SF-6 Circuit Breaker.as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 06 - Yearly Maintenance of 132 kV/220kV TP SF-6 Circuit Breaker

The job shall cover checking & Yearly maintenance of 132/220kV TP SF-6 Circuit Breaker.as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 07 - Monthly Maintenance of 132/220kV Current Transformer (Protection)

The job shall cover checking & Monthly maintenance of 132/220kV Current Transformer (Protection).as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 08 - Half Yearly Maintenance of 132/220kV Current Transformer (Protection).

The job shall cover checking & Half Yearly maintenance of 132/220kV Current Transformer (Protection).as per maintenance schedule given in Annexureof this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 09 - Yearly Maintenance of 132/220kV Current Transformer (Protection)

The job shall cover checking & Yearly maintenance of 132/220kV Current Transformer (Protection).as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL

Item no. 10 – Monthly Maintenance of 132/220kV Current Transformer (Metering)

The job shall cover checking & Monthly maintenance of 132/220kV Current Transformer (Metering) as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 11 - Half Yearly Maintenance of 132/220kV Current Transformer (Metering)

The job shall cover checking &Half Yearly maintenance of 132/220kV Current Transformer (Metering) as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 12 - Yearly Maintenance of 132/220kV Current Transformer (Metering)

The job shall cover checking & Yearly maintenance of 132/220kV Current Transformer (Metering).as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 13- Quarterly Maintenance of 132/220kV Potential Transformer (Metering PT)

The job shall cover checking & Quarterly maintenance of 132/220kV Potential Transformer (Metering PT) as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be

submitted by contractor in triplicate to DFCCIL.

Item no. 14 - Half Yearly Maintenance of 132/220kV Potential Transformer (Metering PT)

The job shall cover checking & Quarterly maintenance of 132/220kV Potential Transformer (Metering PT) as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 15 – Yearly Maintenance of 132/220kV Potential Transformer (Metering PT)

The job shall cover checking & Yearly maintenance of 132/220kV Potential Transformer (Metering PT) as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 16 – Monthly Maintenance of 120/198 kV Lightning Arrester

The job shall cover checking & Monthly maintenance of 120/198 kV Lightning Arrester as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 17 – Half Yearly Maintenance of 120/198 kV Lightning Arrester

The job shall cover checking & Half Yearly maintenance of 120/198 kV Lightning Arrester as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 18– Monthly Maintenance of 132/220kV TP Motorized Isolator with or without earthing heel.

The job shall cover checking & Monthly maintenance of 132/220kV TP Motorized Isolator with or without earthing heel as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction

slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 19 – Half Yearly Maintenance of 132/220kV TP Motorized Isolator with or without earthing heel.

The job shall cover checking & Half Yearly maintenance of 132/220kV TP Motorized Isolator with or without earthing heel as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 20 – Yearly Maintenance of 132/220kV TP Motorized Isolator with or without earthing heel

The job shall cover checking & Yearly maintenance of 132/220kV TP Motorized Isolator with or without earthing heel as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 21 – Monthly Maintenance of 55 kV Current Transformer

The job shall cover checking & Monthly maintenance of 55 kV Current Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 22 – Half Yearly Maintenance of 55 kV Current Transformer

The job shall cover checking & Half Yearly maintenance of 55 kV Current Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 23 – Yearly Maintenance of 55 kV Current Transformer

The job shall cover checking & Yearly maintenance of 55 kV Current Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 24 – Monthly Maintenance of 55/72.2kV DP SF-6 Circuit Breaker

The job shall cover checking & Monthly maintenance of 55/72.2kV DP SF-6 Circuit Breaker as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 25 – Half Yearly Maintenance of 55/72.2kV DP SF-6 Circuit Breaker

The job shall cover checking & Half Yearly maintenance of 55/72.2kV DP SF-6 Circuit Breaker as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 26 – Yearly Maintenance of 55/72.2kV DP SF-6 Circuit Breaker

The job shall cover checking & Yearly maintenance of 55/72.2kV DP SF-6 Circuit Breaker as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 27 – Monthly Maintenance of 55 /72.5 kV DP Motorized Isolator without earthing heel

The job shall cover checking & Monthly Maintenance of 55 /72.5 kV DP Motorized Isolator without earthing heel as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 28 – Half Yearly Maintenance of 55/72.5 kV DP Motorized Isolator without earthing heel

The job shall cover checking & half yearly Maintenance of 55 /72.5 kV DP Motorized Isolator without earthing heel as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 29 – Yearly Maintenance of 55/72.5 kV DP Motorised Isolator without earthing heel

The job shall cover checking & Yearly Maintenance of 55 /72.5 kV DP Motorized Isolator without earthing heel as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 30 – Monthly Maintenance of 42/ 60 kV Lightning Arrester.

The job shall cover checking & Monthly Maintenance of 42/ 60 kV Lightning Arrester as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 31– Half Yearly Maintenance of 42/60 kV Lightning Arrester.

The job shall cover checking & Half Yearly Maintenance of 42/ 60 kV Lightning Arrester as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no.32–Monthly Maintenance of 55kV/27.5 kV, 12.3 MVA Auto Transformers.

The job shall cover checking & Monthly Maintenance of 55kV/27.5 kV, 12.3 MVA Auto Transformers as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As

Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 33 – Half Yearly Maintenance of 55kV/27.5 kV, 12.3 MVA Auto Transformer

The job shall cover checking & Half Yearly Maintenance of 55kV/27.5 kV, 12.3 MVA Auto Transformers as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 34– Yearly Maintenance of 55kV/27.5 kV, 12.3 MVA Auto Transformer

The job shall cover checking & Yearly Maintenance of 55kV/27.5 kV, 12.3 MVA Auto Transformers as per maintenance schedule given in Annexureof this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 35– Quarterly Maintenance of 25 kV Potential Transformer Protection PT

The job shall cover checking & Quarterly Maintenance of 25 kV Potential Transformer Protection PT as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 36 - Half Yearly Maintenance of 25 kV Potential Transformer Protection PT

The job shall cover checking & Half Yearly Maintenance of 25 kV Potential Transformer Protection PT as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be

submitted by contractor in triplicate to DFCCIL.

Item no. 37 - Yearly Maintenance of 25 kV Potential Transformer Protection PT

The job shall cover checking & Yearly Maintenance of 25 kV Potential Transformer Protection PT as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 38 – Monthly Maintenance of 25 kV Current Transformer at Auto Transformer

The job shall cover checking & Monthly Maintenance of 25 kV Current Transformer at Auto Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 39 – Half Yearly Maintenance of 25 kV Current Transformer

The job shall cover checking & Half Yearly Maintenance of 25 kV Current Transformer at Auto Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 40 – Yearly Maintenance of 25 kV Current Transformer.

The job shall cover checking & Yearly Maintenance of 25 kV Current Transformer at Auto Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 41 – Monthly Maintenance of 25 kV DP Circuit Breaker.

The job shall cover checking & Monthly Maintenance of 25 kV DP Circuit Breaker as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 42 – Half Yearly Maintenance of 25 kV DP Circuit Breaker.

The job shall cover checking & Half Yearly Maintenance of 25 kV DP Circuit Breaker as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 43 – Yearly Maintenance of 25 kV DP Circuit Breaker.

The job shall cover checking & Yearly Maintenance of 25 kV DP Circuit Breaker as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 44 – Monthly Maintenance of 25 kV DP Motorized Isolator without earthing heel.

The job shall cover checking & Monthly Maintenance of 25 kV DP Motorized Isolator without earthing heel as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 45 – Half Yearly Maintenance of 25 kV DP Motorized Isolator without earthing heel

The job shall cover checking & Half Yearly Maintenance of 25 kV DP Motorized Isolator without earthing heel as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As

Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 46 - Yearly Maintenance of 25 kV DP Motorized Isolator without earthing heel

The job shall cover checking & Yearly Maintenance of 25 kV DP Motorized Isolator without earthing heel as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 47 - Monthly Maintenance of 25 kV DP Interrupter.

The job shall cover checking & Monthly Maintenance of 25 kV DP Interrupter as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 48 – Half Yearly Maintenance of 25 kV DP Interrupter.

The job shall cover checking & Half Yearly Maintenance of 25 kV DP Interrupter as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 49 – Yearly Maintenance of 25 kV DP Interrupter.

The job shall cover checking & Yearly Maintenance of 25 kV DP Interrupter as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 50 -Quarterly Maintenance of 25kV/240V, 100kVA LT Auxiliary Transformer–

The job shall cover checking & Quarterly Maintenance of 25kV/240V, 100kVA LT Auxiliary Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 51– Half Yearly Maintenance of 25kV/240V, 100kVA LT Auxiliary Transformer

The job shall cover checking & Half Yearly Maintenance of 25kV/240V, 100kVA LT Auxiliary Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 52 – Yearly Maintenance of 25kV/240V, 100kVA LT Auxiliary Transformer

The job shall cover checking & Yearly Maintenance of 25kV/240V, 100kVA LT Auxiliary Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 53 – Monthly Maintenance of 55kV/0.65 kV, 3 MVA Transformers of capacitor bank.

The job shall cover checking & Monthly Maintenance of 55kV/0.65 kV, 3 MVA Transformers of capacitor bank as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 54 – Half Yearly Maintenance of 55kV/0.65 kV, 3 MVA Transformers of capacitor bank.

The job shall cover checking & Half Yearly Maintenance of 55kV/0.65 kV, 3 MVA Transformers of capacitor bank as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The

maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 55 – Yearly Maintenance of 55kV/0.65 kV, 3 MVA Transformers of capacitor bank.

The job shall cover checking & Yearly Maintenance of 55kV/0.65 kV, 3 MVA Transformers of capacitor bank as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 56– Quarterly maintenance of 2500 KVAR CAPACITOR BANK INCLUDING SERIES REACTOR

The job shall cover checking & quarterly maintenance of 2500 KVAR Capacitor Bank including Series Reactor in line with RDSO SMI No. TI/MI/0026(07/03) or latest, DFCCIL Maintenance instructions if any. The price shall include outdoor fixed capacitor bank as well as variable units installed indoor with its accessories i.e. cooling fan, ducts etc.

Each unit of payment shall constitute one 2500KVAR outdoor capacitor bank, series reactor and indoor 2500KVAR variable units. The indoor unit shall include Air Circuit breaker, cooling fans, control panel for fans, ducting etc.

The maintenance of Capacitor bank shall be in line with RDSO SMI No. TI/MI/0026(07/03) or latest, OEM guidelines, DFCCIL Maintenance instructions if any.

1. Clean the dust over the insulators with the help of a damp cloth. In case of oily deposits carbon tetrachloride or any other suitable solvent may be used for cleaning of the insulators.
2. Observe for any dielectric leakage/seepage, if any leakage/seepage is found, rectify it.
3. Observe for any birdcages in and around the traction substations.
4. Observe physically for any abnormal temperature rise of the capacitor units.
5. Check and set right the anti-bird nest.
6. Check duplicate earth connection & tightened.
7. Check the bus bar /jumper terminal connection tightness.
8. Refer the OEM manual and carry out necessary maintenance and testing as prescribed.

The quarterly maintenance of reactor shall be carried out in accordance of OEM manual and DFCCIL guidelines. Following schedule should be complied:-

1. Cleaning of all post insulators by dry cloth. Check for any deposit of dust, dirt, oily deposit on reactor and clean by cloth.
2. Checking tightness of all fasteners, bus bar clamps and terminals.

3. Visual examination of series reactor for any deformation, cracks, heating mark or any other abnormalities.
4. Check for any abnormal sound.
5. Measure IR value of series reactor after disconnecting from capacitor bank.
6. Refer the OEM manual and carry out necessary testing as prescribed.

Maintenance of Indoor unit:

Open the indoor units after shutdown and carry out general cleaning with dust blowing, Spraying insecticides under DFCCIL supervision. Check functioning of cooling fans and measure currents. Attend ducting for any leakage/ damage etc.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 57 – Half yearly maintenance of 2500 KVAR CAPACITOR BANK INCLUDING SERIES REACTOR

The job shall cover checking & Half Yearly maintenance of 2500 KVAR Capacitor Bank including Series Reactor in line with RDSO SMI No. TI/MI/0026(07/03) or latest, DFCCIL Maintenance instructions if any. The price shall include outdoor fixed capacitor bank as well as variable units installed indoor with its accessories i.e. cooling fan, ducts etc.

Each unit of payment shall constitute one 2500KVAR outdoor capacitor bank, series reactor and indoor 2500KVAR variable units. The indoor unit shall include, Air Circuit breaker, cooling fans, control panel for fans, ducting etc.

During Half Yearly maintenance, the following checks also to be done along with the checks mentioned item no. 56 above):

For capacitor bank & Series reactor.

1. Check the excessive tension on any of the connectors. Ease out the tension on the bushings, if required.
2. Observe for any rust collection/corrosion marks on the metallic parts and clean them.
3. Observe the current and voltage variations for the capacitor bank for at least 24 hours (Hourly readings of voltage and current for the capacitor bank should be recorded. If continuous recording facility is available, the same may be used).
4. Compare the records of measurements with last recorded readings. Measurements with Digital meters shall be ideal. Examine and execute the changes for the past few years.
5. Measured combined capacitance value of capacitor bank & record.
6. Measure the inductance of series reactor and record.
7. Open all connectors and clean by emery paper/ contact cleaner and refix. Replace any corroded, over heated or pitted item.
8. Open the indoor units after shutdown and carry out general cleaning with dust blowing, spraying insecticides under DFCCIL supervision.
9. Check the connections for tightness and replace any defective parts as per DFCCIL direction.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 58 – Yearly maintenance of 2500 KVAR CAPACITOR BANK INCLUDING SERIES REACTOR

The job shall cover checking & Yearly maintenance of 2500 KVAR Capacitor Bank including Series Reactor in line with RDSO SMI No. TI/MI/0026(07/03) or latest, DFCCIL Maintenance instructions if any.

During Yearly maintenance, the following checks also to be done along with the checks mentioned in Item No. 56 & 57 above.

For capacitor bank & Series reactor:

1. Ensure proper tightening of the fasteners and the connectors.
2. Measure the capacitance value and tan delta of the capacitor units at nearly the same ambient temperature. Compare with last measured values.
3. Measure the IR value & capacitance value of each capacitor unit & combined value of IR & Capacitance value.
4. Check and recorded the spill voltage.
5. Paint the reactor/ Cap. units as per direction of DFCCIL.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 59 – Quarterly Maintenance of 25 kV Neutral Current Transformer.

The job shall cover checking & Quarterly Maintenance of 25 kV Neutral Current Transformer shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL with its latest correction slips, if any.

1. Clean externally the tank and bushing with dry cloth.
2. Check explosion vent diaphragm for any damage and presence of oil.
3. Check for any oil leakages at all joints, valves, plugs etc., rectify the leakage parts if found and restore the oil level.
4. Check all bonding & earthing connection.
5. Check and record oil level in bushes
6. Check terminal connectors.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 60 - Yearly Maintenance of 25 kV Neutral Current Transformer

The job shall cover checking & Yearly Maintenance of 25 kV Neutral Current Transformer shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL with its latest correction slips, if any.

1. Clean externally the tank bushing with dry cloth.
2. Check explosion vent diaphragm for any damage and presence of oil.

3. Check for any oil leakage.
4. Check all bonding & earth connection.
5. Record IR values with 2.5 kV megger.
6. Check and record oil level in the bush.
7. Check terminal connectors.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 61 – Fortnightly battery & battery charger maintenance of TSS.

The job shall cover checking & Fortnightly Maintenance of battery & battery charger of TSS as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 62 – Yearly battery & battery charger maintenance of TSS

The job shall cover checking & Yearly Maintenance of battery & battery charger of TSS as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 63 – Half Yearly maintenance of Earthing station

The job shall cover checking & Fortnightly Maintenance of Half Yearly maintenance of Earthing station as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 64 – Yearly Buried Rail Connection

The price shall cover Yearly maintenance of Buried rail, connection with 400 sq. mm XLPE cable

1. Check all bonding & earth connection duly excavate.
2. Intactness of welding & Bonding Bolt needs to be ensured.
3. Painting of bond and welded joints.
4. If corroded, same shall be replaced or attended. (As per Schedule 03 item no. 16/17)
5. If earth value is below the prescribed value the same to be improved.

Item no. 65 – Half Yearly Thermal Imaging of Equipment connector.

The job shall cover Thermal Imaging of Equipment connectors as per directives of DFCCIL/RDSO /OEM In instructions if any.

1. Thermal Imaging of Equipment connectors shall be done during loaded condition.
2. The Images shall be stored in Heat format. Necessary backup shall be made available in Depot systems for verifying on later date.
3. Thermal Imaging devices will be supplied by DFCCIL.
4. Defects noticed during the check shall be escalated to depot in charge and as well as to DFCCIL officers and steps to be taken to attend the same at the earliest.

Item no. 66 – Yearly Maintenance of Earth Screen Conductor

The job shall cover checking & Yearly maintenance of Earth Screen Conductor

1. Tightness checking of earth flat and its accessories.
2. Visual checking of corrosion & strands cut if any.
3. Painting of earth flat and its accessories.

Item no. 67 – Yearly maintenance of Cable Trench Cleaning

The job shall cover checking & Yearly maintenance of Cable Trench Cleaning

1. Cleaning of cable trenches for any dust/ dirt/ webs.
2. Cleaning of all cables by cloth
3. Attend the dressing of cable as required.
4. Closing of all the entries by POP/ any sealant as given by DFCCIL.
5. Checking of all entries and exit of cable in trenches and GI pipes for any sharp bend and ease out the same. Close all the entries by POP/ any sealant.
6. Painting of trench cover frame by Red- Oxide and black bituminous paint.
7. Repairing of minor damage of cable trench and its cover.
8. Sprinkling of DDT/Gamaxene or any other insecticide in the trenches after cleaning.

DFCCIL may ask to carry out above schedule on half yearly basis as per site conditions.

Item no. 68 – Reclamation of DCP (5kG, 10 kG&25 kG), CO2 (9kG) & form type fire extinguisher.

The job shall cover Servicing & maintenance of,

- 1) Dry-chemical powder (DCP) type: 5, 10 Kg & 25Kgs.
- 2) CO2: 9 Kg.
- 3) Foam type Fire Extinguisher

Servicing of Fire extinguisher will be done once in quarter and replacement of dry chemical powder will be done once in 2 years. All accessories required for replacement to be arranged by the contractor. Details of servicing/replacement are to be stenciled on fire extinguisher.

Item no. 69 – Refilling of DCP (5kG, 10 kG & 25 kG), CO2 (9kG) & form type fire extinguisher.

The job shall cover refilling of,

- 1) Dry-chemical powder (DCP) type: 5, 10 Kg & 25Kgs.
- 2) CO2: 9 Kg.
- 3) Foam type.

Details of refilling are to be stenciled on fire extinguisher.

Note: As the Contractor's each gang of staff is head quartered at respective TSS, the TSS yard shall be maintained vegetation free for which no additional payments are admissible.

Schedule 2 SP/SSPs/ATS/PP Maintenance:

Item no.1 - Monthly Maintenance of 8 MVA Auto Transformer.

The job shall cover checking & Monthly Maintenance of 8 MVA Auto Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any. The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 2 – Half Yearly Maintenance of 8 MVA Auto Transformers

The job shall cover checking & Half Yearly Maintenance of 8 MVA Auto Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any. The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 3 – Yearly Maintenance of 8 MVA Auto Transformers.

The job shall cover checking & Yearly Maintenance of 8 MVA Auto Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any. The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 4 – Monthly Maintenance of 25 KV Current Transformer at Auto Transformer.

The job shall cover checking & Monthly Maintenance of 25 KV Current Transformer at Auto Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any. The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 5 – Half Yearly Maintenance of 25 kV Current Transformer at Auto Transformer.

The job shall cover checking & Half Yearly Maintenance of 25 KV Current Transformer at Auto Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 6 –Yearly Maintenance of 25 kV Current Transformer at Auto Transformer.

The job shall cover checking & Yearly Maintenance of 25 KV Current Transformer at Auto Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 7 – Monthly Maintenance of 25 kV DP Interrupter.

The job shall cover checking & Monthly Maintenance of 25 kV DP Interrupter as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 8 – Half Yearly Maintenance of 25 kV DP Interrupter.

The job shall cover checking & Half Yearly Maintenance of 25 kV DP Interrupter as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 9 – Yearly Maintenance of 25 kV DP Interrupter.

The job shall cover checking & Yearly Maintenance of 25 kV DP Interrupter as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 10 – Monthly Maintenance of 25 kV DP Isolator (Manual).

The job shall cover checking & Monthly Maintenance of 25 kV DP Isolator (Manual) as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 11 – Half Yearly Maintenance of 25 kV DP Isolator (Manual)

The job shall cover checking & Half Yearly Maintenance of 25 kV DP Isolator (Manual) as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 12 – Yearly Maintenance of 25 kV DP Isolator (Manual).

The job shall cover checking & Yearly Maintenance of 25 kV DP Isolator (Manual) as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 13 – Monthly Maintenance of 25 kV SP Isolator (Manual).

The job shall cover checking & Monthly Maintenance of 25 kV SP Isolator (Manual) as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 14- Half Yearly Maintenance of 25 kV SP Isolator (Manual).

The job shall cover checking & Half Yearly Maintenance of 25 kV SP Isolator (Manual) as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and

Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 15 –Yearly Maintenance of 25 kV SP Isolator (Manual).

The job shall cover checking & Yearly Maintenance of 25 kV SP Isolator (Manual) as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 16 –Quarterly Maintenance of 25 kV Potential Transformer

The job shall cover checking & Quarterly Maintenance of 25 kV Potential Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 17 –Half Yearly Maintenance of 25 kV Potential Transformer

The job shall cover checking & Half Yearly Maintenance of 25 kV Potential Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 18 –Yearly Maintenance of 25 kV Potential Transformer.

The job shall cover checking & Yearly Maintenance of 25 kV Potential Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 19 –Monthly Maintenance of 42 kV Lightning Arrester

The job shall cover checking & Monthly Maintenance of 42 kV Lightning Arrester as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be

carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 20 –Half Yearly Maintenance of 42 kV Lightning Arrester

The job shall cover checking & Half Yearly Maintenance of 42 kV Lightning Arrester as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 21 – Quarterly Maintenance of 25kV/240V, 10kVA LT Auxiliary Transformer.

The job shall cover checking & Quarterly Maintenance of 25kV/240V, 10kVA LT Auxiliary Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 22 – Half Yearly Maintenance of 25kV/240V, 10kVA LT Auxiliary Transformer

The job shall cover checking & Half Yearly Maintenance of 25kV/240V, 10kVA LT Auxiliary Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 23 – Yearly Maintenance of 25kV/240V, 10kVA LT Auxiliary Transformer

The job shall cover checking & Yearly Maintenance of 25kV/240V, 10kVA LT Auxiliary Transformer as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 24 – Fortnightly battery & battery charger maintenance at SCPs

The job shall cover checking & Fortnightly Maintenance of battery & battery charger maintenance at SCPs as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 25 – Yearly Maintenance of Battery and Battery Charger.

The job shall cover checking & Yearly Maintenance of battery & battery charger maintenance at SCPs as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 26 – Half Yearly maintenance of Earthing station.

The job shall cover checking & Half Yearly Maintenance of Earthing station as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 27 – Yearly maintenance of Earthing station

The job shall cover checking & Yearly Maintenance of Earthing station as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 28– Yearly Buried Rail Connection

The price shall cover Yearly maintenance of Buried rail, connection with 400 sq. mm XLPE cable

1. Check all bonding & earth connection duly excavate.

2. Intactness of welding & Bonding Bolt needs to be ensured.
3. Painting of bond and welded joints.
4. If corroded, same shall be replaced or attended. (As per Schedule 03 item no. 16/17)
5. If earth value is below the prescribed value the same to be improved

Item no. 29 – Monthly Maintenance of 25 kV SP Interrupter

The job shall cover checking & Monthly Maintenance of 25 kV SP Interrupter as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 30 – Half Yearly Maintenance of 25 kV SP Interrupter

The job shall cover checking & Half Yearly Maintenance of 25 kV SP Interrupter as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 31 – Yearly Maintenance of 25 kV SP Interrupter

The job shall cover checking & Yearly Maintenance of 25 kV SP Interrupter as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 32 – Half Yearly Thermal Imaging of Equipment connector.

The job shall cover checking & Half Yearly Thermal Imaging of Equipment connector shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL with its latest correction slips, if any.

1. Thermal Imaging of Equipment connectors shall be done during loaded condition.
2. The Images shall be stored in Heat format. Necessary backup shall be made available in Depot systems for verifying on later date.
3. Thermal Imaging devices will be supplied by Railway.
4. Defects noticed during the check shall be escalated to depot in charge and as well as to Railway officers and steps to be taken to attend the same at the earliest.
5. The temperature of Hot spots shall be compared with adjacent / nearby similar components

and depending upon variation following action shall be taken.

Variation $> 20^{\circ}\text{C}$ - To be attended within 24 Hrs.

$10^{\circ}\text{C} < \text{variation} < 20^{\circ}\text{C}$ - To be attended within 10 Days.

$5^{\circ}\text{C} < \text{variation} < 10^{\circ}\text{C}$ - To be attended within a Month.

Variation $< 05^{\circ}\text{C}$ - Normal.

Item no. 33 – Yearly Maintenance of Earth Screen Conductor

The job shall cover checking & Yearly maintenance of Earth Screen Conductor

1. Tightness checking of earth flat and its accessories.
2. Visual checking of corrosion & strands cut if any.
3. Painting of earth flat and its accessories.

Item no. 34 - Yearly maintenance of Cable Trench Cleaning

The job shall cover checking & Yearly maintenance of Cable Trench Cleaning as under:

1. Cleaning of cable trenches for any dust/ dirt/ webs/ Garbage.
2. Cleaning of all cables by cloth
3. Attend the dressing of cable as required.
4. Closing of all the entries by POP/ any sealant as given by DFCCIL.
5. Checking of all entries and exit of cable in trenches and GI pipes for any sharp bend and ease out the same. Close all the entries by POP/ any sealant.
6. Painting of trench cover frame by Red- Oxide and black bituminous paint.
7. Repairing of minor damage of cable trench and its cover.
8. Sprinkling of DDT/Gamaxene or any other insecticide in the trenches after cleaning.

DFCCIL may ask to carry out above schedule on half yearly basis as per site conditions.

Item no. 35 –Reclamation of DCP (5kG, 10kG & 25kG), CO2 (9kG) & form type fire extinguisher.

The job shall cover Servicing & maintenance of,

- 1) Dry-chemical powder (DCP) type: 5, 10 Kg & 25Kgs.
- 2) CO2: 9 Kg.
- 3) Foam type Fire Extinguisher

Servicing of Fire extinguisher will be done once in quarter and replacement of dry chemical powder will be done once in 2 years. All accessories required for replacement to be arranged by the contractor. Details of servicing/replacement are to be stencilled on fire extinguisher.

Item no. 36–Refilling of DCP (5KG, 10 KG & 25 KG), CO2 (9kG) & form type fire extinguisher.

The job shall cover refilling of,

- 1) Dry-chemical powder (DCP) type: 5, 10 Kg & 25Kgs.
- 2) CO2: 9 Kg.
- 3) Foam type.

Details of refilling are to be stencilled on fire extinguisher.

Schedule 3: Panels & Gantry Bus Bar insulator other Maintenance
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Item no. 1 –Monthly Panel maintenance in TSS.

The job shall cover checking & Monthly Maintenance of Panel maintenance in TSS as per maintenance

schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

The various panels at TSS includes Main control and relay panels for Scott & Feeder protection/IR connection if any, AC distribution board, DC distribution boards, Main and standby battery chargers, Panels of NIFPS, Multifunction meter cum energy data communication panel, AFL, RTU, CRP Panel for PQCR equipments etc. however, any other panel may be added and same will be in the scope of work. As such all the panels situated in TSS in control room building shall be included in this item.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 2 –Monthly Panel maintenance in SP/SSP

The job shall cover checking & Monthly Maintenance of Panel maintenance in TSS as per maintenance schedule given in Annexure-Z of this tender document. The work involves checking, testing, and measurements of various parameters as laid down in the schedule. The maintenance activity shall be carried out in line with Maintenance Manual/Approved drawings (As Build Drawings)/Specifications of DFCCIL/OEM instructions with latest correction slips, if any.

All the panels situated in SCPs in control room building shall be included in this item.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 3 –Half yearly Cross gantry or any others Gantry Bus Bar maintenance of TSS

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 work shall involves following maintenance activities:-

1. Checking and maintenance of track side overhead cross feeders and jumpers of UP & DN line at TSS. Cleaning of 9- ton and pedestal Insulators of terminations/ jumper support as provided on UP&DN gantry above OHE. The jumpers ex TSS to cross feeders and feeders to OHE/ along track feeder are included into it. The PG clamps shall be thoroughly inspected by opening and re-fitted duly cleaned by emery paper.
2. Checking and maintenance of all 55KV/25KV bus-bars with terminal connectors, bus bar splice, joints, T- connectors, expansion joints or any other fitting. The overheated / problematic fittings shall be attended/ replaced as required. The entire bus bar arrangement of 55KV/25KV side from 55KV bushing of Scott TRF to 42KV LA gantry including PQCR equipment bus-bar arrangement are included in it.
3. Checking and maintenance of all 220KV side bus-bar arrangement with jumpers, PG clamps, T- connectors, expansion joints etc. the entire 220KV side bus- bar arrangement ex 220KV incoming line to Scott TRF 220KV bushing are included in it.
4. Contractor shall open up any terminal connector, splice, joints, expansion joints for thorough inspection of inner parts and bi-metallic strips and clean as required as per direction of DFCCIL Engineer based on condition.
5. The work shall involve checking of termination of 220KV side bus-bar including cleaning of strain insulators and earthing of Towers.
6. The work shall involve cleaning of all 220KV side & 55KV side Pedestal insulator and replacing the

same if found damage/ flashed.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 4 –Half yearly Cross gantry or any others Gantry Bus Bar maintenance of SP/SSPs/ATS.

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 work shall involves following maintenance activities:-

1. Checking and maintenance of track side overhead cross feeders and jumpers of UP & DN line at SCPs. Cleaning of 9- ton and pedestal Insulators of terminations/ jumper support as provided on UP&DN gantry above OHE. The jumpers ex SCPs to cross feeders and feeders to OHE/ along track feeder are included into it. The PG clamps shall be thoroughly inspected by opening and re-fitted duly cleaned by emery paper.
2. Checking and maintenance of all 55KV/25KV bus-bars (fixed aluminium bus bar or strung type ACSR/AAAC busbar) with terminal connectors, bus bar splice, joints, T- connectors, expansion joints or any other fitting. The overheated / problematic fittings shall be attended/ replaced as required. The entire bus bar arrangements of SCPs connecting various equipments are included in it.
3. Contractor shall open up any terminal connector, splice, joints, expansion joints for thorough inspection of inner parts and bi-metallic strips and clean as required as per direction of DFCCIL Engineer based on condition.
4. The work shall involve checking of termination of 55 KV side bus-bar including cleaning of strain insulators and earthing of Towers.
5. The work shall involve cleaning of all 55KV Pedestal insulator and replacing the same if found damage/ flashed.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 5 –Half yearly Cross gantry or any others Gantry Bus Bar maintenance of PPs.

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 work shall involves following maintenance activities:-

1. Checking and maintenance of track side overhead cross feeders and jumpers of UP & DN line at PP. Cleaning of 9- ton and pedestal Insulators of terminations/ jumper support as provided on UP&DN gantry above OHE. The jumpers ex PP to cross feeders and feeders to OHE/ along track feeder are included into it. The PG clamps shall be thoroughly inspected by opening and re-fitted duly cleaned by emery paper.
2. Checking and maintenance of all bus-bars with terminal connectors, bus bar splice, joints, T- connectors, expansion joints or any other fitting. The overheated / problematic fittings shall be attended/ replaced as required. The entire bus bar arrangement of PP are included in it.
3. Contractor shall open up any terminal connector, splice, joints, expansion joints for thorough inspection of inner parts and bi-metallic strips and clean as required as per direction of DFCCIL Engineer based on condition.
4. The work shall involve checking of termination of 55KV side bus-bar including cleaning of strain insulators and earthing of Towers.

5. The work shall involve cleaning of all 55KV side Pedestal insulator and replacing the same if found damage/ flashed.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 6 –Removal and re-erection of PSI Equipment.

Removal and re-erection of PSI Equipments shall be done as per OEM manual. This job shall cover replacement of PSI equipments viz CTs, PTs, ATs, LAs, Capacitors, Isolators, Interrupters, CBs etc. The rates are calculated for each occasion. The supply of material and tools will be provided by DFCCIL. The man power deputed shall leave the work spot with the permission of engineer in charge. All released materials to be handed over to DFCCIL.

The DFCCIL may order to dismantle/remove any of the PSI equipments viz. CTs, PTs, ATs, LAs, Capacitors, Isolators, Interrupters, CBs etc. The work involves removal of foundation bolts and dismantling of equipment following correct procedure as per OEM guidelines. No damage to the dismantled equipments shall be caused.

The cost shall also include erection of new equipments as per OEM guidelines and testing and commissioning of the same.

The Joint Progress Report/Maintenance sheets shall be signed by Engineer in-charge of DFCCIL and Contractor's qualified Supervisor/Engineer. The Joint Progress Report/Maintenance sheet shall be submitted by contractor in triplicate to DFCCIL.

Item no. 7 –Supply & Erection of Caution Board.

The payment under this item shall cover supply and erection of Retro-reflective type boards- 25 KV AC danger board, danger board for height gauge, public/ staff caution boards and special boards on uniform basis as decided by the DFCCIL Engineer.

Item no. 8 –Supply and spreading of ballast/Pebbles/Gravels in Switching Stations/TSS yard. The price shall cover the supply and spreading of 20 mm crushed stone ballast / pebbles / gravels in Switching Stations / TSS yard. The graded ballast shall be between 30 mm to 15mm machine crushed without any mixing of soil. The price shall also cover the spreading and leveling of ballast in switch yard smoothly with a good workmanship.

This price shall also include the following:

- a) Removal of wild vegetation in switch yard in existing ballast areas along with its roots.
- b) Cleaning of existing ballast and screening of soil from existing ballast.
- c) Smoothing and re-spreading of existing ballast so collected.

The rates are calculated in CUM as per requirement for the entire section. The man power deputed shall leave the work spot with the permission of engineer in charge

Item no. 9 -Reinforce concrete for cable trench & cover

The price shall cover the provision of cable Trenches and its cover made with Reinforced concrete including digging of soil/surface as per instruction of Engineer in charge at site.

The rates are calculated in Sqm as per requirement for the entire section. The man power deputed shall leave the work spot with the permission of engineer in charge. All released materials to be handed over to DFCCIL

Item no. 10 – Supply and repainting of PSI Equipment like Transformer CT ,PT ,LA BM, CB, AT

as per site requirement with water proof grey enamelled paint by approved brand i.e. Asian Berger etc. as per IS 2932 or latest

The price shall cover the supply of paint and complete repainting of PSI equipments like Traction Transformer, CB, BM, PT, AT etc. as per site requirement with water proof grey enamelled paint from any of RDSO approved brand paint i.e. Asian or Berger brand / make paint confirming to IS: 2932 or latest including rubbing / scrubbing of surface to remove corrosion/foreign material etc from PSI equipments as per instruction of Engineer in charge at site. The small patches or small patch rusting painting will be covered under maintenance schedule. Only complete repainting of any equipment will be paid under this item.

The rates are calculated in Sq. m as per requirement for the entire section. The man power deputed shall leave the work spot with the permission of engineer in charge. This work will be executed as per satisfaction of DFCCIL Engineer.

Item no. 11 – Supply and repainting of PSI assets i.e. Fencing Panels, Fencing UP right, barbered wire, Tubular pole at TSS/SP/SSP with Aluminium Paint i.e. Asian Berger etc. as per IS 2339 or latest

The price shall cover the supply of paint and repainting of PSI assets i.e. Fencing Panels / uprights, barbed wires, TSS / Switching posts and Tubular Poles at TSS in electrified section with Aluminium Paint from any of RDSO approved brand / make confirming to IS:2339 or latest as per instruction of Engineer in charge at site.

The rates are calculated in Sqm as per requirement for the entire section. This work will be executed as per satisfaction of DFCCIL Supervisor.

Item no. 12 – Supply and erection of Earth Pit cover & Box.

The price shall cover the Supply and erection of Earth Pit Box with cover as per RDSO specification/ drawing available latest.

The rates are calculated in numbers of Earth Pit Box with cover provided as per requirement for the entire section.

Item no. 13 – Provision of Shock Treatment Chart

The price shall cover the supply and provision of Shock Treatment charts at TRD depots, TPC Control, TSS, Switching Stations and Level Crossing Gates as per requirement. The rates are calculated in the number of Shock Treatment Charts provided by the contractor as per DFCCIL approved drawing and site requirement. The matter of shock treatment chart shall confirm to ACTM Vol-1.

Item no. 14 – Drilling of holes in mast/ rails with contractor own labour and T&P complete.

The price shall cover the drilling and champehring of holes in mast / rails with contractor's own labour and T&P complete in the supervision of Engineer in charge and as per requirement of site. The rates are calculated in the number of holes drilled in masts/rails as per requirement. The man power deputed shall leave the work spot with the permission of Engineer in charge. All released materials to be handed over to Railways.

Item no. 15 – Supply and erection of earth leads 75 x 8 mm mild steel flat laid in the ground or exposed as per site requirement"

The price shall cover supply and installation per meter length of 75x8mm mild steel flat, buried at a depth of 60 cm below ground level. The price shall also cover connections of the steel flats to the earth electrodes to constitute the main earth ring and to the earthed terminals of the power transformers etc. as required.

The price shall also cover supply and installation per meter length of 75x8 mm mild steel flat, painted all around with two coats of painting with red oxide and two coats of colour grass green shade-218 of

IS:5 passing through cable trench or exposed above ground level. The price shall also cover the connections of the steel flats to the earth electrodes, to constitute the main earth ring and to the earthed terminals of the various equipments as required.

Item no. 16 – Supply and erection of earth leads 50 x6 mm mild steel flat laid in the ground or exposed as per site requirement"

The price shall cover supply and installation per meter length of 50x6mm mild steel flat buried at a depth of 60cm below ground level. The price shall also cover connections of the steel flats to the main earth ring and to the steel structures and metallic frame work/ terminals of various equipments, as required.

The price shall cover supply and installations per meter length of 50x6 mm mild steel flat painted all around with two coats of painting with red oxide and two coats of colour grass green shade-218 of IS:5 passing through cable trench or exposed above ground level. The price shall also cover the connections of the steel flats to the main earth ring and to the steel structures and metallic frame work/terminals of various outdoor equipments as required

Item no. 17 – Supply and erection of 8 SWG GI Wire for earthing

The price shall cover supply, shaping and erection of 8 SWG G.I wire per metre used for earthing of control panels, LT, AC and DC distribution boards, battery chargers, etc. at sub- station control rooms. The requirement of fencing panel earthing to the nearest fencing upright shall also be included and paid for under this item.

Schedule 4: -TSS Manning & House keeping

Item no. 1 – Regular House Keeping of TSS.

The job shall cover the Daily Housekeeping of TSS, control room, Battery room, Store room, staff room, staff rest room, TSS yard and surroundings. The TSS should be kept free of bushes, oil spillage etc. A checklist of cleaning shall be maintained in TSS. Attendance shall be maintained by the concerned DFCCIL in charge. In case of absence of the house keeping personnel reliever should be immediately arranged by the contractor. The working hours will be 08.00 to 17.00 Hrs with lunch Hr between 13.00 to 14.00 Hrs. Duties are as under:

1. Regular cleaning of equipment, installed at traction substations.
2. Daily cleaning i.e. brooming, mopping of all rooms in TSS Building.
3. Cleaning of toilets/ bathrooms.
4. Cleaning of roads, foundation area, oil drains, oil sump, water drains, TSS entry area etc.
5. The vegetation grown along the fencing outside TSS shall be cleared upto 1.0 meter so that they do not touch to the fencing.
6. Cleaning of vegetation in yard and surrounding area.
7. Watering and care taking of trees/ plants grown in the TSS areas.
8. Safe guarding of TSS premises from any unwanted movements of stranger or animals.
9. Time to time checking for ensuring no reptiles are found in equipment box or any other location which create unwanted faults or short circuits.
10. Any other work that does not require excavation or access to the switchyard that can be undertaken without disturbing the operation of the substation.
11. He should not operate any equipment in any condition.
12. He should not climb in any structure on live condition.

Item no. 2 – Manning of TSS (Optional as per requirement).

The job shall cover the Manning of TSS by contractor staff as mentioned below,

- (i) The staff to be deputed should be able to take and write messages from Railway authorities in English/Hindi over phone and should be able to convey the same to the desired person and should also be computer literate.
- (ii) Age should be more than 18 years and preferably less than 58 years as on date of commence of work.
- (iii) The contractor shall be solely responsible for the conduct of the staff deputed by him for the work.
- (iv) The contractor's staff should not carry any unauthorized/dangerous/explosives in the complex.
- (v) The staff to be deputed for manning of TSS, highly skilled person should have passed minimum Diploma in Electrical or higher technical qualification with 01 year experience OR ITI/ equivalent technical qualification (Electrician/ Wireman/other similar trade) with 5 years' experience. The staff should possess experience in similar job in which they have dealt with maintenance of Electrical systems / equipment / switchgears and protective devices. However the person who is to be found to be qualified and suitable in scrutiny by representative of GM/EL/AII will only are allowed to work. Following are the minor works:-
 - (a) Replacement of defective LED, indication lamps of relay panel, ACDB & DCDB panel.
 - (b) Battery maintenance distilled water topping work.
 - (c) Replacement of HRC fuse and rotary switch of ACDB, DCDB and control and relay panel.
 - (d) Provision of naphthalene balls at control and other equipment supplied by DFCCIL.

A. Duties of operator (manning) staff –

- (i) He should go through the instructions/messages written in handing over charge/Taking over charge register before taking over charge of duty.
- (ii) He should check the condition of all indication lamps and status of equipment.
- (iii) He should obtained the HT meter readings if any such as KWH, KVAH, KVARH, MD, PF etc from the supply authority meters at 00-00 Hrs daily, record in energy register and convey to on duty TPC.
- (iv) He should check the counter reading of Equipment and relays at 00-00Hrs/ other specified time daily.
- (v) He should record the Transformer current, bus voltage, Feeder Voltage, Capacitor current, WTI, OTI, Ambient temperature, Gas Pressure and Air pressure of equipment's every hours in daily log sheet. Daily log sheet shall be arranged by the contractor.
- (vi) He should record the time of CB tripping, 132KV supply failures and the feed extensions in concerned register.
- (vii) He should check the Trickle/Boost current, Voltage of Battery charger.
- (viii) He should neatly clean the battery cell surfaces daily.
- (ix) He should check the condition of equipment for any abnormality such as heating of terminal connector, bus splice, bus connectors, un-usual sound, sparking ect. If any abnormality noticed shall be informed immediately to the on duty TPC and act accordingly.
- (x) He should check the oil level in conservator tank of Transformer, leakage of oil from the Transformer, CT, PT and ATs and to be informed immediately to the on duty TPC and act accordingly.
- (xi) He should check the of safety equipment such as Fire extinguisher, Fire buckets with sand etc.
- (xii) He should check the functioning of telephones provided.

- (xiii) He should operate the equipments as per instructions of TPC on duty.
- (xiv) He should check the safe custody of T & P items and other stores kept at TSS.
- (xv) He should clean the control panel and equipment provided at control room.
- (xvi) He should carry out minor repairs under guidance of in-charges of TSS.
- (xvii) He should switch on & off of Yard lights, pump at TSS.
- (xviii) He should check & maintain general electrical lighting of TSS premises.
- (xix) He should follow any instructions given by TPC & In-charges of TSS.
- (xx) He should look after any other duty assigned by In-charges of TSS.
- (xxi) He should register all incoming and outgoing calls on register.
- (xxii) Do not allow un-authorized staff into the sub-station.
- (xxiii) Do not allow co-staff to operate the control panel/equipment without his knowledge.
- (xxiv) Ensure communication facilities are in working order. If any defect noticed, report to CTPC/TSS in-charges.
- (xxv) Check all safety items/equipment, such as discharge rod, hand gloves, Helmets, safety belts for sound condition.
- (xxvi) Ensure firefighting equipment for a periodical checking and refilling.
- (xxvii) Operate the equipment only on instructions of the TPC under clear message duly exchanging PN number.
- (xxviii) Report any abnormalities noticed to TPC and carry out the operations as per direction of TPC. In case of failure of equipment, such as PT, CT, AT, LA, TM, CB, DM, Isolate the defect equipment under the instructions from TPC duly under power block and permit to work.
- (xxix) Check and record the specific gravity & the voltage of Battery, top up with distilled water if necessary. Check and record the charging current so the charging voltage is 120 to 125V.
- (xxx) Check the condition of silica gel in breathers of Power Transformer and Auxiliary Transformer, CBs and record and inform to TPC if condition are bad.
- (xxxi) In case of 132KV power supply failure report TPC immediately to facilitate feed extension. On resumption of 132KV supply, informs TPC and normalizes upon the instructions of TPC.
- (xxxii) In case of 25KV supply voltage falling below 19 kV/increasing above 27.5 kV inform immediately to on duty TPC for appropriate action.
- (xxxiii) All local operations are done under the instructions of TPC daily, and duly keeping the switches in local condition.
- (xxxiv) During duty hours operator shall bear tight fitting clothes and shoes.
- (xxxv) During hourly yard checking he shall keep himself alert, 2.0 meter safe distance away from electrical live parts and bear helmet.
- (xxxvi) He shall not attempt to climb a structure, until permission granted by TPC/In-charge and proper earthing and equipped with all safety gears.
- (xxxvii) He shall not carry boom, ladder in standing position in the yard to access the equipment.
- (xxxviii) He shall bear hand gloves for operation of isolator to isolate the faulty equipment after getting the TPC's instructions and exchange of private number.
- (xxxix) He shall not carry umbrella in yard in any season.
- (xl) Recording of Electrical parameters, events and alarms at TSS and TPC will take status of all equipments of TSS from the manning staff on hourly basis.
- (xli) One man day in this part of schedule is for 08 hours. Contractor has to arrange for transport of the personnel for manning at TSS.

Item no. 3 – Manning of SCPs (Optional as per requirement).

The explanatory note & scope of work will be same as of item no. 02 above except the deployed staff should have qualification of ITI / equivalent technical qualification (Electrician/

Wireman/other similar trade) with 02 year experience. The staff should possess experience in similar job in which they have dealt with maintenance of Electrical systems / equipment / switchgears and protective devices. However the ~~person~~ who is to be found to be qualified and suitable in scrutiny by representative of GM/EL/AII will only be allowed to work.

Schedule 5: Break down attention

Item no. 1 – Breakdown attention of PSI equipments at TSS/SP/SSPs

The job shall cover the Breakdown attention of PSI equipments as mentioned below, The job shall cover Supply of Man Power for restoration of all 2x 25kV PSI equipments such as circuit breakers, Interrupters, Potential transformers, AT, CT, Capacitor bank ,Bus bar etc. during Break down round the clock on hourly basis for all restoration of 25kV PSI Equipments.

The Contractor is required to deploy one Supervisors, One Technicians and Two Helpers (total 04 staff) who are competent to attend Failures in PSI equipments. The job against this item is applicable for Supply of Man Power on hourly basis consisting of the above 04 staff in one Gang.

The breakdown team shall report at nominated IMD/IMSD within 20 minutes in day and 25 minutes in night. In case contractor fails to provide breakdown attention team, he may be penalised by DFCCIL as deemed fit.

The staff deployed for breakdown attention should have good knowledge of PSI system so as to troubleshoot expeditiously in order to minimise down time.

In case of major repair that requires OEM/Specialized agency attention then such repair will be undertaken by DFCCIL separately.

Breakdown staff may be located at selected points as required by Railways to deal promptly with PSI equipments failures.

Item no. 2 – Maintenance of 25 KV dropout fuse AT TSS/SP/SSP

The job shall cover Rectification of 25 kV dropout fuse in Auxiliary Transformer locations between Madar-Iqbalgarh section. Rectification to be done immediately, as and when required. Nominated staff for the above job should be available to reach the working spot round the clock.

Item no. 3 - Manning of SP/SSP in case of Emergency (Optional as per requirement).

The job shall cover the Manning of SP/SSP in case of Emergency as mentioned below:

1. Whenever remote control working is not possible due to any fault on the communication cable or in the remote control equipment or failure of battery etc. it is necessary to arrange for manning the switching station by posting suitably qualified and competent staff that is authorized to carry out emergency switching operations as instructed by TPC. The manning staff shall make himself conversant with the equipment is required to operate and the rules that are laid down by the Railway administration.
2. Manning staff shall carry out orders issued by TPC over the telephone, observing the rules laid down for exchange of telephone messages.
3. Manning staff should maintain a log book showing the details of operations in order in which they were done, interruption to power supply, abnormal occurrences, defects in plant requiring attention and other information if any. The log will be signed by both the relieving and relived staffs at every change of shift as a token of having taken over and hand over all equipment correctly.
4. The manning staff on shift duty is forbidden to leave the post station unless he is relieved by another person. No interchange of duties or variation of duty hours is permitted without the prior permission

of TPC, and staff who are unable from any cause to take their shift, shall at once notify TPC.

5. One man day in this part of schedule is for 12 hours. Contractor has to arrange for transport of the personnel manning the SP/SSP. The man so deployed shall have mobile phone which shall be advised to TPC immediately he is assigned for manning duty.

Schedule 6: Additional PSI maintenance Activity

Item no. 1 – Dismantling, supply, erection & commissioning of LA, CT, PT, CB & BM in case of break down/bursting of the equipment- As per Appendix A.

Supply of spares required during maintenance break downs for a period of 2 years- As per **Appendix A**.

The spares required for attending the breakdown & preventive maintenance will be arranged by the contractor from OEM / authorized dealer of OEM. The contractor will be paid the cost of the spare / materials supplied as per price list of Annexure-B along with the released materials to the consignee.

Schedule 7: Maintenance of Traction Sub Stations /SCPs (Optional)

Item no. 1 to 3 – Oil Filtration for power Transformer: Streamline Oil filtration work & Conservator tank

This shall cover the cost towards oil filtration for Power Transformer during topping up of oil or during any replacement of gasket / Bushing. Oil filtration needs to be done to improve oil BDV.

Item no. 4 to 17– Bushings Oil leakage attention in Transformer: Streamline Oil filtration work & Conservator tank

This shall cover the cost towards Oil leakage attention in Transformer bushings.

Item no. 18 to 20– Oil Leakage attention and overhauling of TAP changer: Leakage attention to OLTC tapping gear and new Gasket O ring changing work.

This shall cover the cost towards Oil leakage attention and overhauling of TAP changer of Power Transformers.

Item no. 21 – Calibration of measuring instruments [will be paid based on the submission of proof].

This job shall cover calibration of measuring instruments supplied by DFCCIL at the NABL accredited labs. It also includes the transportation of instruments from Depot to Labs and return. The payment for this item will be made based on the submission of certificate for the calibrated instruments with original bill/invoice from the NABL accredited labs. The periodicity of calibration will be as per extant rule and as advised by authorized DFCCIL in-charge.

Schedule 8: Testing of Transformer oil.

The price includes carrying out various test of transformer oil sample as per IS: 1866. The test to be carried out are as under:-

1	Physical Condition & Appearance of Oil (Colour & Order)
2	Density at Room Temperature
3	Electric Breakdown Voltage

4	Moisture Content by Karl Fisher Method
5	Neutralization Value
6	Specific Resistance at room temperature & 90 degree C
7	Dissipation Factor (tan 0) at room temp. & 90 degree C
8	Interfacial tension test at + room temp
9	Flash Point
10	Sediment & Perceptible Sludge
11	Dissolved Gas Analysis
12	Furan Analysis

The price shall include collection of sample from concerned transformer from various TSS, SCPs , ESS. The transformers included for these test are Scott, Auto, and Capacitor bank TRF, ESS Transformer etc. The price shall include transportation of sample to Govt. accredited laboratory. The laboratory shall be of good reput e duly approved by NABL. The contractor shall submit necessary documents and get the laboratory approval from DFCCIL. The bottles for sample collection as per IS shall be arranged by contractor. The price shall include submission of test report to DFCCIL in triplicate.

The test shall be carried out once in the contract period as per direction of DFCCIL. Generally the sample shall not be collected in rainy season.

DAILY PROGRESS REPORT FORMAT (PSI)

1. Name of PSI Location:-
2. Details of Permit to work/Power Block

Demand	Grant
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Section of Power Block on OHE / PTW section at PSI location	Duration	Duration

3. Contractor Staff utilized

Name of Supervisor: - Skilled: Semi skilled:
Unskilled

4. Name of DFCCIL supervisor/ staff:

5. Details of work carried out in power block : (Enclose maintenance sheet of each equipment for which maintenance schedule carried out)

6. General Report on PSI equipment of the section. Preventive action suggested

7. Details of work carried out under Non-power block

Station:

Contractor

Date:

Name & Designation

Verified by**(Sr Executive/Executive)****Annexure-Z****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 equipment of different voltage levels in TSS, SP, SSP and ATS etc.

1. MAINTENANCE SCHEDULES OF 220 KV/55 KV SCOTT TRANSFORMERS (60 /84/100 MVA)

Monthly:

Sl. N	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"> • In case of sealed bushing, if no oil/less than minimum level indication. Measure Tan-Delta & capacitance and compare the test values recorded earlier. • In case of oil filled bushing, if any leakage is observed, the same shall be attended. 	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"> • Check breather for choking due to insect/dirt. If breather is choked, remove the dirt etc. • 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. • Check oil level in oil cup. Fill up oil in cup, if required. 	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.		

Half yearly

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. and 600sec. for HV-LV, HV-E and LV-E. Calculate PI (Polarization index)</p> <ul style="list-style-type: none"> Insulation resistance values should be compared with the last recorded value. Compare PI values with values at the time of commissioning/ last recorded. PI Insulation/condition <ul style="list-style-type: none"> < 1.0 Dangerous Poor 1.25 Questionable 1.25 - 2.0 Satisfactory > 2.0 Good 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. 	<p>Ensure that transformer is Disconnected. Ensure bushing are clean and free from Moisture and Temperature on which IR value is recorded. 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.		

Yearly

SN	Ref :- TI / MI / 0038 (Rev. II) dt. 10.05.2006 & ACTM VOL. - II, part-1, para-20205, 20246 & Camtech Maint manual (2010)		
	In addition to monthly & Half yearly sch.		
1.	Infrared temperature scanning for tank, bushing, tap changer, radiators and connectors		
2.	Tan Delta and capacitance test of condenser bushing (< 0.007)	Refer Annex. B	
3.	Tan Delta and capacitance test of Transformer windings (In case of doubtful IR reading results , as compared to pervious results)	Refer Annex. C	
4.	Check gasket joints for any leakage and tighten the nut & bolts if loose		
5.	Checking of arcing horn (rod gap setting) /		
6.	Testing of bushing Oil sample. Testing for if bushing not hermetically sealed		
7.	BDV of transformer oil	> 50 KV	
8.	Testing of transformer oil sample for DGA	Refer Annex. D	
9.	Testing of transformer oil sample as per Is 1866-2000 / 1866-2000	Refer Annex. E	
10.	Working of tap changer switches		

11	Checking of IR of tap changer motor with 500V megger		
12	Checking of control circuit, Relay, gauges, Alarm & their circuits		
13	Check of vermin proofing and water leakage inside of control boxes and terminal box		
14	Check Oil Temperature Indicator for proper working and setting		
15	OTI Alarm setting	80 °C	
16	OTI trip setting	85 °C	
17	Check Winding Temperature Indicator for proper working and setting		
18	WTI Alarm setting	90 °C	
19	WTI Trip setting	95 °C	
20	Check oil gauge for proper working		
21	Measure the earth resistance and record		
22	Check operation of Buchholz relay, Continuity test for contacts with test lock screw set at 5 0		
23	IR of Buchholz Relay	> 20 M Ohms	
24	Check Voltage Ratio of transformer on various taps .		
	Primary Voltage		
	Secondary Voltage		
	Voltage ratio		
25	Winding Resistance test on principal tap, compare it with factory test value deviation permitted by +/-5%		

2. Maintenance schedules for 220/132 KV Triple Pole /66 kV DP SF-6 Circuit Breaker:-

(As per DFCC Maintenance Manual)

Monthly schedules

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.	Shall be free from dust, dirt, flash, chipping etc
2.	Counter reading	Check operation of counter and record counter reading of Circuit Breaker: - Before maintenance - After maintenance	Record
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. Examine the interior, if any part of the interior is badly rusted indicating entry of moisture, find out the cause, plug the holes and repaint the rusted parts. Check all pins, and check nuts are in places. Check tie-rod nuts for tightness.	Clean & apply weather sealant material as per OEM manual. Start heater if required.
5.	Heater, thermostat & lamp	Check function of heater, thermostat & lamp. If any defect, attend it.	Working & setting of Thermostat is 25 – 30 ⁰ 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 Operation	Check the operation of breaker on local and remote switch. Breaker should have open & close on selected position. During operation observe whether the mechanism functions smoothly without any rubbing or obstruction. Check shock absorber functions properly when CB is tripped.	
8.	Local and Remote switch	Check the function of local and remote switches.	
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.	Functioning of motor and gear box for spring charging	Examine the commutator of the motor and clean with muslin cloth. Examine carbon brushes and replace if necessary/ Check gear-oil level in the mechanism and replenish it, if required. Note down spring charging time.	
16.	Foundation	Check condition of foundation bolts and tightness of foundation bolts.	

17	Breather	Check breather and breather holes for clogging. Replace/treat silica gel if required.	
18.	Miscellaneous, if any.		

Half yearly

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 circuit to ground by 500V 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 110VDC +/-10% ii. Resistance 32 Ohm or As per OEM iii. IR value more than 2 MΩ
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	Functioning of motor and gear box for spring charging	Examine the commutator of the motor and clean with musline cloth. Examine carbon brushes and replace if necessary/ Check gear-oil level in the mechanism and replenish it, if required.	
12.	Miscellaneous, if any.		

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

Yearly Maintenance schedule :

Sl. No.	Item	Inspection And Work to be Carried Out	Remarks
	Carry out following work in addition to monthly and half yearly schedule		
1	Trip and closing plunger	Check and clean free movement of plungers.	
2	Anti pumping device	Check free movement of anti pumping relay plunger and clean contacts by CTC/Cloth	
3	Shock observer	Check for oil leakage, if leakages attend it. Check for breakages /cracks and replace if required.	
4	Measure & record		
	a. Closing time	Less than 130ms	
	b. Opening time	Less than 32ms	
5	Check & record contact resistance of fixed & moving contact with contact resistance meter in close position of CB	Should be < 50 $\mu\Omega$ (or refer OEM manual)	
6	Checking of gas pressure trip and alarm circuits		
	a. Gas Pressure Normal	7kg/cm ²	
	b. Gas Pressure Alarm	6.5kg/cm ²	
	b. Gas pressure Lock out	6kg/cm ²	
7	Measurement of insulation reading of spring charging motor and control cable with 500V megger	>2 M Ohm	
8	Checking of motor bearing for free movement and lubricate the same	There should be no abnormal noise. Measure current of motor.	
9	Checking of Earthing of equipment and its tightness	To be ensured	
10	Painting of equipment	Use paint of approved specification and make as per OEM.	

11	Check wipe and travel/stroke of moving contact and record value.	Compare with OEM value and take suitable action if exceed limits.	
11	Any other maintenance suggested by the OEM maintenance manual	As per maintenance manual.	

3. Maintenance schedules for 220 KV /132KV/66 KV/ 25KV Current Transformer

(As per DFCC Maintenance Manual)

Type- Single phase, oil filled natural air cooled

Monthly:

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. Check LT box gasket for correct fitment, cut etc, replace if required.	
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 found loose.	
6.	Arching horn, if provided	Check flash mark on horn tips	

Half yearly:

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. 2000 MΩ min. for 220/132 kV (use 2.5 kV megger) ii. 200 MΩ min. for 25 kV (use 2.5 kV megger)	
(ii)	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)	
(iii)	LV-Earth	i. 2 MΩ min. for 220/132 kV (use 500 V megger) ii. 2 MΩ min. for 25 kV (use 500 V megger)	
4.	Check for polarity	Shall be as per OEM manual	
5.	CT top cover and Sealing	Check for sealing of CT against leakage of nitrogen gas.	
6.	Miscellaneous, if any.		

Yearly:

SN	Item	Inspection And Work To Be Carried Out	Remarks
1.	Carry out following work in addition to half yearly schedule		
2.	Arcing horn gap, if provided	Check & measure arcing horn gap as required.	
3.	Oil testing, if possible	Test the oil with BDV tester	BDV more than 40KV
4.	Painting	Paint to be done, if color of tank is faded/rusted. Paint with epoxy and Polyurethane paints as per OEM's manual.	
5.	Polarity test	Conduct polarity test and check the direction of current.	
6.	Ratio test	Conduct ratio test by applying AC supply to HV winding and measure the voltage at LV side winding.	
7.	Nitrogen Sealing	Check for proper sealing of Nitrogen. In case diaphragm found damaged attend the same.	

4. Maintenance schedules for 220 KV /132KV/66 KV/ 25KV Potential Transformer**(As per DFCC Maintenance Manual)****Type- Single phase, oil filled natural air cooled****Quarterly:**

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 new oil shall be > 50 KV
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.		

Half Yearly

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to quarterly schedule		
2.	Earth link	Check & tight earth link in secondary box.	
3.	Measure Insulation Resistance between:		
(i)	HV-Earth	2000MΩ min. for 220/132kV (use 2.5 KV megger) 200 MΩ min. for 25 KV (use 2.5 kV megger)	

(ii)	HV-LV	2000 MΩ min. for 220/132 kV (use 2.5 kV megger) 200 MΩ min. for 25 kV (use 2.5 kV megger)	
(iii)	LV-Earth	2 MΩ min. for 220/132KV (use 500 V megger) 2 MΩ min. for 25 KV (use 500 V megger)	
4.	LT Fuse and connections	Check condition of fuse and connections in LT terminal box. Check for tightness, rusting, heating etc. Check for gasket condition and replace if required.	
5.	Check for polarity	Shall be as per OEM manual	
6.	Carry out PT ratio test.	Check ratio by injecting low voltage on primary side and compare results with factory inspection report/OEM manual	
7.	Arching horn, if provided	Check arching horn for flash mark and measure the gap of arching horns.	
8.	PT top cover and Sealing	Check for sealing of PT cover /diaphragm for any leakage of nitrogen gas.	
10.	Miscellaneous, if any.		

Yearly:

SN	Item	Inspection And Work To Be Carried Out	Remarks
1.	Carry out following work in addition to half yearly schedule		
2.	Duplicate earthing	Check duplicate earth conditions for broken & loose. Attend the same	
3.	Oil testing if possible	Test the oil with BDV tester. If possible	
4.	Ratio test	Conduct ratio test by applying AC supply to HV winding and measure the voltage at LV side winding	
5.	Painting	Paint to be done, if color of tank is faded/rusted. Paint with epoxy and polyurethane paints or as per OEM manual.	
6.	Nitrogen Sealing	Check for proper sealing of Nitrogen. In case diaphragm found damaged attend the same and refill nitrogen	

5. Maintenance schedules for 198 (For 220 KV) ,120 KV (132 KV) and 42 KV (25 KV) Lightning arrester
(As per DFCC Maintenance Manual)

Monthly:

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 lightening counter.	
4.	Record leakage current of LA	Check and record.(Normal upto 1.2 mA, warning >1.2 mA -1.6 mA, replace LA if > 1.6 mA)	
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	
4.	Miscellaneous, if any.		

Half yearly :

SN	Item	Inspection and work to be carried out	Remarks
1.	Carry out following work in addition to monthly schedule		
2.	Measure Third harmonic resistive component of leakage current.	Measure & record the THRC value of leakage current	OK if found less than 500 μ A and replace if found more than 500 μ A.
3.	Checking of Surge counter connections and its operation.	Check operation as per OEM guidelines if considered necessary (In case on no increase for significant time).	Connection shall be tight without any sparking mark/heating. Counter shall operate on
4.	Check condition of earth pit and measure earth resistance value. Also check the condition of duplicate earthing strips for properness	Should be free from any joint and shortest possible. Should be properly clamped and painted with double coat of grass green colour. Record value of Earth resistance. Should be < 8 Ω .	Treat the earth by Charcoal and salt if value found more than 8 Ω .
5.	Measure HV to earth IR value by 2.5 / 5 KV megger	Check and record IR value by megger and record (should be > 1 G Ω for 42 KV and > 10 G Ω for above voltage.	Record the IR value .

6. Maintenance schedules for 220 /132 KV Triple Pole Motorised Isolators with/without earthing heel
(As per DECC Maintenance Manual)

Monthly:

Sl. No.	Item	Inspection And Work to be Carried Out	Remarks
1.	Insulators	Clean all support insulators by dry cloth. Remove bird discharges other foreign deposits/items etc suitable by wet cloth/detergent etc. 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. Check for half round movement of blades before entering in fixed contact.	
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.	AC /D C Motor and control box	Check the working of AC /DC Motor. Blow dust and clean control box. Tight connections and look for any flash, overheating. Clean auxiliary contacts, limit switch, contactors by CTC.	
7.	Miscellaneous, if any.		

Half yearly:

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 apply petroleum jelly.	
5.	Articulated joints, sliding and bearing Surface	Check & clean all articulated joints, sliding and bearing surface with kerosene oil and lubricate with conducting grease.	
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 connector , fastners etc if required	
9.	Earthing of operating Handle	Check earthing of operating handle with copper flexible wire.	
10	Check for DC/AC motor	Check load current of DC/AC motor and compare with full load current and previous year readings. Record open and close operation time and compare with OEM manual/previous readings.	

11.	Control Box for isolator operation	Check all connections and tighten as required. Check door gasket and replace if found cut.	
10.	Miscellaneous, if any.		

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

Yearly:

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly and half yearly schedule		
2.	Connectors/Contacts	Feel the temperature at the terminal connectors, if warm gently tighten the nuts.	
3.	Moving and fixed contacts and their operation.	Clean blade tips and fixed contacts fingers and apply petroleum jelly at contacts making surface Clean blade tips and fixed contacts fingers . <ul style="list-style-type: none"> • Check the interlocking arrangements of earth blade and main blade • Check the locking arrangements to the operating handles of main blades and earth blade. • Check the adjustable STOP set screws for proper condition and correct positioning. • Check all split pins, locknuts, check nuts, and other Hardware for proper condition. • Operate the isolator slowly and check for simultaneous operation of blades on the poles and correct alignment of blade tips in the fixed contact jaws of the pole. 	
4.	Mechanism	Check all split pins, locknuts, check nuts, and other Hardware for proper condition. 10 Lubricate all moving parts and all articulated joints with grease/oil for smooth and trouble-free operation.	
5.	IR value of insulators	Check and record IR Values of pedestal insulators with 5 KV /2.5 KV KV Megger.	
6	Miscellaneous, if any.		

7. Maintenance schedules for for 55 KV DP CB SF 6 type and 25 KV DP Vacuum type Circuit Breakers

(As per DFCC Maintenance Manual)

Monthly schedules

Sl. No.	Item	Inspection And Work to be Carried Out	Remarks
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1.	Surface of porcelain pole insulator unit	Clean with dry cotton cloth to remove dust /dirt. Use wet cloth to remove bird discharges/other deposits. Check for damages, flash mark, chipping of insulator and attend . Replace, if required.	
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.	
6.	Local/Remote Operation	Check the operation of breaker on local and remote switch. Breaker should have open & close on selected position. During operation observe whether the mechanism functions smoothly without any rubbing or obstruction. Check shock absorber functions properly when CB is tripped.	
7.	Local and Remote switch	Check the function of local and remote switches.	
8.	Position of indicator	Check alignment and missing indicator	
9.	Control circuit	Record operating voltage, check control circuit wiring and all connections should have proper lugs and ferule number in terminal box.	
10.	Tripping mechanism	Check & correct operation of tripping Mechanism.	
11.	Shaft of pole assembly	Check visibility of red band on shaft of the pole assembly.	
12.	Auxiliary circuits	Check the connections & function of auxiliary control circuit.	
13.	Shock observer	Check the oil leakage from shock absorber. Repair or replace, if necessary.	

14	Limit switch & auxiliary contact	Check & clean the function of auxiliary limit switch, auxiliary contact and connection for tightness.	
15.	Connections	Check loose/overheating connections. Tight, if found loose.	
16.	Earth connections & foundation bolts	Check & tight the earth connections & foundation bolts.	
17.	Condenser tripping device for CB, if provided.	Check the function of CTD for proper operation. If defective, attend the same.	
18.	Anti pumping device for CB	Check the function of APD for proper operation. If defective, attend the same.	
19.	Interlocking	Check the proper interlocking with isolator.	
20	Functioning of motor and gear box for spring charging	Examine the commutator of the motor and clean with muslin cloth. Examine carbon brushes and replace if necessary/ Check gear-oil level in the mechanism and replenish it, if required. Note down spring charging time.	
21.	Foundation	Check condition of foundation bolts and tightness of foundation bolts.	
22	Breather	Check breather and breather holes for clogging. Replace/treat silica gel if required.	
23.	Miscellaneous, if any.		

Half yearly:

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 circlip, 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/OEM
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.	Top cover	Check sealing of Top cover for Any moisture trapping.	
10.	Mechanism Box	Check penetration of rain water, rust and Door hinges. Arrest the reason and rectify./ Check, clean & lubricate the gear, bearing cum shaft rollers and latches	Lubricate as per OEM guidelines.
		Open the cover, check & clean mechanism box for condensation rain water, gasket of door, dust and hinges. Arrest the reason and attend it. Examine the interior, if any part of the interior is badly rusted indicating entry of moisture, find out the cause, plug the holes and repaint the rusted parts. Check all pins, and check nuts are in places. Check tie-rod nuts for tightness.	Clean & apply weather sealant material as per OEM manual. Start heater if required.
11.	Main terminal connector	Check overheated & rusted nuts, bolts, washers and bi-metallic strips. Replace, if required.	
12.	Shock observer	Check for oil leakage, if leakage attend it.	
13.	Charging time of closing spring	Check and record charging time of closing spring	
14.	Functioning of motor and gear box for spring charging	Examine the commutator of the motor and clean with musline cloth. Examine carbon brushes and replace if necessary/ Check gear-oil level in the mechanism and replenish it, if required.	
15.	Wipe & travel measurement	Measure & record the wipe & travel measurement as per OEM manual.	

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

Yearly maintenance schedule:

Sl. No	Item	Inspection And Work to be Carried Out	Remarks
	Carry out following work in addition to monthly and half yearly schedule		
1	Trip and closing plunger	Check and clean free movement of plungers.	
2	Anti pumping device	Check free movement of anti pumping relay plunger and clean contacts by CTC/Cloth	
3	Shock observer	Check for oil leakage, if leakages attend it. Check for breakages /cracks and replace if required.	
4	Measure & record		Refer OEM manual for timings
	a. Closing time	Less than 100ms	
	b. Opening time	Less than 40 ms	
5	Check & record contact resistance of fixed & moving contact with contact resistance meter in close position of CB	Should be $< 50 \mu\Omega$ (or refer OEM manual)	
6	Checking of gas pressure trip and alarm circuits		
	a. Gas Pressure Normal	7kg/cm ²	
	b. Gas Pressure Alarm	6.5kg/cm ²	
	c. Gas pressure Lock out	6kg/cm ²	
7	Measurement of insulation resistance of control and power cables of CB cable with 500V megger	$>2 \text{ M Ohm}$	
8	Checking of motor bearing for free movement and lubricate the same	There should be no abnormal noise. Measure load current of motor.	
9	Checking of Earthing of equipment and its tightness	To be ensured .	
10	Painting of equipment	Use paint of approved specification and make as per OEM.	
11	Any other maintenance suggested by the OEM maintenance manual	As per maintenance manual.	

8. Maintenance schedules for 25 KV double Pole Motorised Isolators with/without earthing heel
(As per DFCC Maintenance Manual)

Monthly:

S.N.	Item	Inspection And Work to be Carried Out	Remarks
	Door gasket and hinges	Check weather proof gasket and hinges for good condition. Replace/repair, if damaged.	
1.	Insulators	Clean all support insulators by dry cloth. Remove bird discharges other foreign deposits/items etc suitable by wet cloth/detergent etc. Check visually the conditions of the support insulator. If observe any abnormality, attend it.	
2.	Mechanism& earthing	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. Check & clean mechanism, ensure proper operation, tightness of earthing connection and lubricate the moving parts.	
3.	Clearance of blades in open condition	Check, measure & record the distance between male and female contacts in fully open position.	
4	Adjustment of fixed and moving contacts	Check operation of isolator for correct adjustment of blade and smooth hand operation. Check for half round movement of blades before entering in fixed contact.	
5	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.	
6	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.	
7	Interlock	Check working of interlock without obstruction.	
8	Earthing connections	Check & tight earthing of the frame with its fittings. Check tightness and condition of lead of earthing heel, if provided.	
9	Wiring connection	Check & tight wiring connections for loose, overheating or any defect.	
10	Wiring connection	Check & tight wiring connections for loose, overheating or any defect.	

11	Heater	Check working condition of heater, if defective, attend it.	
12	AC /D C Motor and control box	Check the working of AC /DC Motor. Blow dust and clean control box. Tight connections and look for any flash, overheating. Clean auxiliary contacts, limit switch, contactors by CTC.	
13	Miscellaneous, if any.		

Half yearly

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 apply petroleum jelly.	
5.	Articulated joints, sliding and bearing Surface	Check & clean all articulated joints, sliding and bearing surface with kerosene oil and lubricate with conducting grease.	
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 connector, fasteners etc if required	
9.	Earthing of operating Handle	Check earthing of operating handle with copper flexible wire.	
10	Check for DC/AC motor	Check load current of DC/AC motor and compare with full load current and previous year readings. Record open and close operation time and compare with OEM manual/previous readings.	
11.	Control Box for isolator operation	Check all connections and tighten as required. Check door gasket and replace if found cut.	
10.	Miscellaneous, if any.		

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

Yearly:

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly and half yearly schedule		
2.	Connectors/Contacts	Feel the temperature at the terminal connectors, if warm gently tighten the nuts.	

3.	Moving and fixed contacts and their operation.	Clean blade tips and fixed contacts fingers and apply petroleum jelly at contacts making surface Clean blade tips and fixed contacts fingers.	
		<ul style="list-style-type: none"> • Check the interlocking arrangements of earth blade and main blade • Check the locking arrangements to the operating handles of main blades and earth blade. • Check the adjustable STOP set screws for proper condition and correct positioning. • Check all split pins, locknuts, check nuts, and other Hardware for proper condition. • Operate the isolator slowly and check for simultaneous operation of blades on the poles and correct alignment of blade tips in the fixed contact jaws of the pole. 	
4.	Mechanism	Check all split pins, locknuts, check nuts, and other Hardware for proper condition. 10 Lubricate all moving parts and all articulated joints with grease/oil for smooth and trouble-free operation.	
5.	IR value of insulators	Check and record IR Values of pedestal insulators with 2.5 KV KV Megger.	
6	Miscellaneous, if any.		

9. MAINTENANCE SCHEDULES OF AUTO TRANSFORMERS (12.3 MVA /8.0 MVA)

Monthly:

Sl. No.	Item	Inspection And Work to be Carried Out	Remarks
1.	Maximum temperature of transformer oil on dialindicator	Check and compare it with the previous values. Abnormal change in the temperature should be further investigated and reset indicator	
2.	Maximum temperatureof 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"> • In case of sealed bushing, if no oil./less than minimum level indication. Measure Tan-Delta & capacitance and compare the test values recorded earlier. • In case of oil filled bushing, if any leakage is observed, the same shall be attended. 	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"> • Check breather for choking due to insect/dirt. If breather is choked, remove the dirt etc. • 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. • Check oil level in the oil cup. Fill up oil in cup, if required. 	If BDV is less than 50 kV, filter the oil till it reaches 50kV.
8.	Heater in Marhallingbox	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.		

Half yearly:

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"> Insulation resistance values should be compared with the last recorded value. Compare PI values with values at the time of commissioning/ last recorded. PI Insulation/condition <ul style="list-style-type: none"> < 1.0 Dangerous Poor 1.25 Questionable 1.25 - 2.0 Satisfactory >2.0 Good 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. 	<p>Ensure that transformer i</p> <p>Ensure busing are clean and free from moisture a</p> <p>nd 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.		

Yearly:

SN	Ref :- TI / MI / 0038 (Rev. II) dt. 10.05.2006 & ACTM VOL. - II, part-1, para-20205, 20246 & Camtech Maint manual (2010)		
	In addition to monthly & Half yearly sch.		
1	Infrared temperature scanning for tank, bushing, tap changer, radiators and connectors		
2	Tan Delta and capacitance test of condenser bushing (< 0.007)	Refer Annex. B	
3	Tan Delta and capacitance test of Transformer windings (In case of doubtful IR reading results , as compared to pervious results)	Refer Annex. C	
4	Check gasket joints for any leakage and tighten the nut & bolts if loose		
5	Checking of arcing horn (rod gap setting) /		
6	Testing of bushing Oil sample . Testing for if		

	bushing not hermetically sealed		
7	BDV of transformer oil	> 50 KV	
8	Testing of transformer oil sample for DGA	Refer Annex. D	
9	Testing of transformer oil sample as per Is 1866-2000 / 1866-2000	Refer Annex. E	
10	Working of tap changer switches		
11	Checking of IR of tap changer motor with 500V megger		
12	Checking of control circuit, Relay, gauges, Alarm & their circuit		
13	Check of vermin proofing and water leakage inside of control box and terminal box		
14	Check Oil Temperature Indicator for proper working and setting		
15	OTI Alarm setting	80 °C	
16	OTI trip setting	85 °C	
17	Check Winding Temperature Indicator for proper working and setting		
18	WTI Alarm setting	90 °C	
51	WTI Trip setting	95 °C	
20	Check oil gauge for proper working		
21	Measure the earth resistance and record		
22	Check operation of Buchholz relay, Continuity test for contacts with test lock screw set at 5 0		
23	IR of Buchholz Relay	> 20 M Ohms	
24	Check Voltage Ratio of transformer on various taps		
	Primary Voltage		
	Secondary Voltage		
	Voltage ratio		
25	Winding Resistance test on principal tap, compare it with factory test value deviation permitted by +/-5%		

10 Maintenance schedules for 25 KV/230 Volt Auxiliary Transformers
(capacity 100 KVA, 50 KVA, 25 KVA and 10 KVA)
(As per DFCC Maintenance Manual)

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

Quarterly:

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"> Check the condition of silica gel. If color is pink reactivate/replace. Check oil in the cup of breather. Top up the oil in cup, if required. 	
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 and surrounding area.	Check & clean AT surrounding area / enclosure for vegetation and other materials. Ensure AT mast, Earth pit and bonds are clear of vegetation, soil, track ballast etc.	
7.	Condition of pole mounted ICDP (MCCB) switch, control panel and its fuses	Check operation of DP switch along with mechanism. Check condition of pole mounted ICDP (MCCB) switch, control panel and its fuses. Replace overheated lugs, fuses and tighten loose connections. Note: Use tinned copper fuse wire of 20 SWG for 10 KVA, 16 SWG for 25 KVA, 12 SWG for 50 KVA, MCB/MCCB for 100 KVA	
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. Check earthing of LV Box, cable armour and all earth connections as per approved E&B plan.	
10.	Arcing horn HV busing	Check flash mark on arcing horn. Attend, if flash over marks observed & check the arcing horn gap. Arcing horn gap for split type is 100 mm + 100 mm, For non split type - 165 mm	Attend
11.	Drop out (DO) fuse	Check the condition of DO fuse barrel and fuse element. Replace the broken, rusted, over heated and non-standard fuse wire, if any.	
12.	Miscellaneous, if any.		

Half Yearly:

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 gap)

3.	Additional arcing hornon fixed 9- Ton insulator	Check for any flash mark on arcinghorn and measure the gap of arcing 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.	Measure earth resistance	Check earth connections, measure & record the earth resistance of AT earth pit by earth tester.	Not more than 8.0 ohm.
6.	Attention to Earth pit and connection	Ensure provision or pit box and cover as per approved drawing. Apply petroleum jelly on connections/bolts.Paint ER value on the cover with black letters and yellow back ground.	All connections shall be tight and bonds properly dressed without uplifting. Piant bond flats with two coats of grass green colour.
7.	LT cable	Check & replace damage, overheating of wires, lugs etc. of LT cable. Measure & record IR value of cable: i. Between AT to ICDP (MCCB) switch. ii. Between ICDP (MCCB) switch to ACO panel by 500 V megger.	2 M ohm min. at 30 ⁰ Temperature.
8.	Ensure fuse on 25 KV and LT side with correct rupturing capacity as per KVA capacity of AT	DO fuse rating – 100 KVA-5 Amp, 50 KVA-3.0 Amp, 25 KVA-1.5 Amp, 10 KVA-1.0 Amp LV fuse rating-100 KVA- 450 Amp (MCB/MCCB), 50 KVA- 315 Amp, 25 KVA-125-150 Amp, 10 KVA-63 Amp (Select fuse rating 1.25 -1.50 times the AT full load current)	Check and clean LV box. Carry out all works of the monthly schedule. Close opened spare holes if any by M-seal.
9.	Miscellaneous, if any.		

Yearly:

SN	Item	Inspection And Work To Be CarriedOut	Remarks
1.	Carry out following work in addition to half yearly schedule		
2.	Winding continuity	Measure & record winding continuity on all tapings with multimeter /500 V megger.	

3.	Tap changer	Check the smooth operation of tapchanger on all tapings	
4.	Acidity of oil	Check the acidity of transformer oil.	Maximum 0.5mg KOH/gm
5.	Ratio test	Conduct ratio test by applying AC supply to HV winding and measure the voltage at LV side winding.	
6.	Jumpers	Check HT and LT jumpers & lugs for loose & flash mark. Replace, if loose & flash.	
7.	Painting	Paint to be done, if color of tank is faded/rusted. Paint to be done with epoxy and polyurethane paints as per A& C slip no. 8 to the RDSO specification no. ETI/PSI/118(10/93) or as per OEM's manual.	
8.	DO fuse wire	Replace the fuse wire with new one.	

11 BATTERY AND BATTERY CHARGER MAINTENANCE REGISTERS

Fortnightly Maintenance schedules:

Sl.No.	Item	Inspection And Work to be Carried Out
Battery bank		
1.	Check General condition of cells and battery room	Clean the room and make free from dust, dirt and deposits. Attend leakage of electrolyte. Remove garbage /nests/ webs /unwanted material from in battery room.
2.	Condition of door, locking, ventilator, Exhaust fan, lights etc.	Shall be in good condition. Repair if required.
3.	Availability of Hydrometer, thermometer, temperature correction chart, Cell tester/Volt meter, plastic jug/glass etc	Shall be available at each battery room. Arrange if not available. Ensure availability of rain sheds on ventilator and Exhaust fan.
4.	Specific gravity	Check & record the specific gravity of each cell. At 27°C shall be 1210 in charged condition and 1180 means discharged condition. Charge the battery on boost charge if required.
5.	Electrolyte level and topping up distilled Water	Check the level of electrolyte of the cells. Top up to the maximum mark, if required.
6.	Temperature	Check & record the temperature of each cell.
7.	Condition of plate	Check & clean physical condition such as cracks, distortions and accumulation of whitish deposit on +ve plates. Replace cell, if required.
8.	Check cell covers/lids/container.	Check the proper sealing of cell covers. Provide sealing compound if necessary. Check container for any bulging, replace if found bulged.

9.	Cell voltage	Check & record the voltage of each cell, it should be in the range of 2.0V to 2.2V.
10.	Total voltage	Check & record the total voltage of battery, it should not be less than 110 Volts.
11.	Vent plugs	Check for clear passage of gases. If hole is blocked, clean it.
12.	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.
13.	Inter cell connections	Check & clean with dry cloth. Replace defective nuts, bolts & washers. Tighten connections if required. Clean sulphation if any and apply petroleum jelly.
14.	Battery stand	Check for any corrosion/erosion due to fall of electrolyte. Clean battery stand. Ensure correct leveling and availability of foot insulators.
Battery chargers		
1.	Record readings	Check all meters and record AC and DC voltages, Currents etc
2.	Functioning of stand by charger and load change over	Check functioning of standby charger and if found alright, take load on it for next 15 days.
3.	Checking of fuses and tightness of connections	Check all AC and DC fuses and replace if found blown/flashed/heated. Carry out inspection of charger by opening door/top cover after transferring load on another charger and tighten the connections. Blow dust by blower. Clean all dust, webs etc by dry cloth /brush ensuring proper electrical disconnection/earthing.
4.	Check condition of AC incoming and DC outgoing cables	Shall be properly dressed, tagged and trenches be clean and free from dusts etc.
5.	Check earthing of chargers	Each battery charger shall be connected to Earth grid with 02 separate and distinct connection.

Yearly Maintenance schedules :

Sl. No.	Item	Inspection And Work to be Carried Out
Battery bank		
1	Carry out all fortnightly schedules	Complete all works as per schedule.
2.	Check polarity of all cells for reverse polarity and if found with reverse polarity at any cell it should be replaced.	Shall be in good condition. Repair or replace cell if polarity is found reversed.
3.	Cell continuously showing low SPG/Voltage.	Replace the cell by healthy one.

Battery chargers		
1.	Carry out all fortnightly schedules	Complete all works as per schedule.
2.	Attention under shut down.	Shutdown the charger and inspect from inside. Ensure no flashing, melting, overheating mask. Check all connections and tighten. Check lugs and replace if required. Clean from inside thoroughly by blower.
3	Charger	Check & clean the charger outside and Inside with dry cloth
4	Voltmeter & Ammeter	Check the proper function of voltmeter & ammeter.
5	Overheating	Check any sign of overheating inside the charger. Find out the reason and attend it.

Note : please refer OEM manual.

12 Maintenance schedules for General works at TSS, SSP, SP,ATS, PP **(As per DFCC Maintenance Manual)**

Monthly:

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.		

Half yearly:

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	Bus bar, clamps & connectors by thermos vision camera	Check nut, bolt & washers for overheating. Replace, if necessary.	
4	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.	
5	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	
6	Fire extinguisher, buckets, first aid boxes	Inspect expiry date of fire extinguisher, fill buckets with sand, Re-fill first aid boxes with necessary medicine with valid date of expiry.	
7	Oil sump, if Available	Check & clean oil sump for dirtiness	
8	Miscellaneous, if any.		

13 General Maintenance schedules for various control and relay panels installed at TSS.SP.SSP.ATS.PP control room
(As per DFCC Maintenance Manual)

(Applicable for Main control and relay panels, AC distribution board, DC distribution boards, Main and standby battery chargers, Panels of NIFPS, Multifunction meter cum energy data communication panel, AFL, RTU, CRP Panel for PQCR equipments etc.)

Monthly:

SN	Item	Inspection And Work to be CarriedOut	Remarks
1.	Cleaning of panel from inside and outside	Check and clean accumulated dust externally& internally with air blower and dry cloth	
2.	Indicatingand recording instrument	Check all indicating and recording instruments/ meters are working normally. Check for healthiness of all indication lamps and replace if faulty. Check buzzers, alarms, semaphore signals and annunciators for proper functioning.	
3.	Relay	Check & clean outer terminals of relays for any abnormality. Ensure tightness /correct fixing of relay glass covers.	
4.	Cable connections	Check & tighten all cable connections, iffound loose. Check for any heating, flashing etc.	
5.	Terminal boards	Check & clean all terminal boards, 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. Ifounds loose.	
8.	Doors and gaskets	Check doors & hinges for intactness and proper closing. Check gaskets and ensure correct fittings.	
9.	Holes inPanel	Check & plug the redundant holes to avoid entry of moisture and insects.	
10	Cables and trenches	Check condition of cables and trench below and around panels. Clean the trenches if any garbage, dust, debris are there. Check for rain water entry and pump out if water is there.	
11.	Insulation mats	Clean all insulation mats laid in front or back side of panels.	
12.	Door switch and lamps inside panels	Check for correct functioning.	
13.	Miscellaneous, if any.		

Half yearly

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following schedules in addition to monthly schedules :		
2.	Tightness of all connections	Check all terminal blocks, relay, meter and annunciator terminal connections for tightness.	
3.	CT/PT connections	Check and tighten connections.	
4.	MCBs	Check all MCBs for any abnormality, proper functioning and correct rating.	
5.	Fuses	Check all fuses for proper rating & overheating, replace, if necessary.	
6.	Functioning of Heaters	Check for functioning of heaters provided inside panels to remove moistures.	
7.	Holes in panel	Check & plug the holes to avoid entry of moisture and insects	
8.	Miscellaneous, if any.		

AC/ DC Distribution Panel:**Quarterly:**

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	

Half Yearly:

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	
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Yearly:

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to half yearly schedule		
2.	Cable glands	Check cable holes and unwanted holes. Provide proper size of glands, close unwanted holes and gaps.	Cork gasket and HOLDITE compound
3.	Cable ends	Check for crimping of cable ends with connector/lugs and cable ends crimped with suitable size of connectors/lugs.	Proper crimped
4.	Insulation resistance of cable	Measure & record insulation resistance of cable at room temp. with 500 V megger.	More than 2 M
5.	Stickers/paint	Check stickers/paint to MCBs/rotary switch. Paste new sticker/paint to MCBs/rotary switch, if faded.	
6.	Painting	Paint to be done, if color of panel is faded/rusted. Paint with epoxy and polyurethane paints as per A & C slip no. 8 to the RDSO specification no. ETI/PSI/118 (10/93) or as per OEM manual.	

14. Maintenance schedules for General Works on TSS, SSP & SP **(As per DFCC Maintenance Manual)**

MONTHLY SCHEDULE:-

Sl. No.	Item	Inspection And Work to be Carried Out	Remarks
1.	General upkeep of TSS premises	<p>Clean all roadways , pathways, transformer plinth area ,cross tracks with broom.</p> <p>Clean switchyard area by removing any untoward item/garbage materials viz tree branches, leaves, waste cotton, bird /animal discharges, plastic or any other things.</p> <p>Clean all cable trenches by removing covers in switchyard and control room. Remove any foreign/untoward materials/debris/dust from trenches. Clean cables with cloth. Check cables for any cut/damage and list out.</p> <p>Clean all rooms of control building including control</p>	

		room, battery room, PQCR panel room, office and stores by brooming/moping/washing as per direction of Exe/Elect as required.	
2.	Check and attend water logging and seepage from roof	Check for water logging in any part of TSS viz, near structure , equipments, cable trenches, oil sumps, drains etc and take action to rectify as required. Check for any seepage of water from roof of TSS and take necessary action to rectify.	
3.	Removal of unwanted vegetation	Check & clean vegetation near and around equipment in switch yard and TSS fenced area.	
4.	Attention to horticulture provided in TSS area	Check & trim tree branches likely to come in the vicinity of live lines. Provide necessary attention to garden plants, trees etc provided in TSS fenced area.	
5.	Caution, danger board, shock treatment chart and other boards	Check & clean the boards for damages, availability and well secured, replace if any damage is observed.	
6.	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.	
7.	Structure and plant foundations	Check for any sinking or cracking and go around the structural work for checking tightness of various bolts and nuts.	
8.	All indication lamps on control panels	Check loose connections, fuse indication etc. Tighten the same and replace the fuse, if required.	
9.	State electricity board meter readings	Check & record meter reading, MD, variation in voltage, frequency and power factor and important data parameters.	
10.	All jumpers & other connections	Check visually for flash/spark marks on jumper, nuts & bolts. Tighten the respective bi-metallic clamp/connections. Replace, if required.	
11.	Checking and attention to Discharge Rod	Check for cable strands broken and damages. If strands 20% broken, replace the cable.	
12.	Checking and attention to all TSS equipments	Check and clean all safety equipments viz boards, instruments, T&P items, stretcher, first aid box, key box, electrical fittings and ensure proper house keeping.	

14.	Visually check Bus bar, clamps & connectors.	Check nut, bolt & washers for overheating. Replace, if necessary.	
13	Miscellaneous, if any.		

HALF YEARLY SCHEDULE:-

SN	Item	Inspection And Work to be Carried Out	Remarks
1.	Carry out following work in addition to monthly 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, lubricate 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, Re-fill first aid boxes with necessary medicine with valid date of expiry.	
6.	Oil sump, if Available	Check & clean oil sumps.	
	Check Bus bar, clamps & connectors for tightness under power shut down.	Check nut, bolt & washers for overheating. Replace, if necessary. Check all clamps, bimetallic strips etc. for heating mark etc. and replace if required.	
7.	Miscellaneous, if any.		

15. Earthing & Bonding:**Half Yearly**

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 and SP and SSP < 2.0 \square

16 Yearly buried rail maintenance :

SN	Item	Inspection And Work to be carried out	Remarks
1.			
2.	Buried rail	Check condition of connections traction rail to buried rail and mat to buried rail. Clean & tighten all connections, paint with red oxide paint.	

17 Maintenance schedules for 55 KV/0.65 KV 3MVA Transformers of capacitor bank.

(As per DFCC Maintenance Manual)

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

Monthly:

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"> Check the condition of silica gel. If color is pink reactivate/replace. Check oil in the cup of breather. Top up the oil in cup, if required. 	
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 and surrounding area.	Check & clean AT surrounding area /enclosure for vegetation and other materials. Ensure AT mast, Earth pit and bonds are clear of vegetation, soil, track ballast etc.	
7.	Condition of pole mounted ICDP (MCCB) switch, control panel and its fuses	Check operation of DP switch along with mechanism. Check condition of pole mounted ICDP (MCCB) switch, control panel and its fuses. Replace overheated lugs, fuses and tighten loose connections. Note: Use tinned copper fuse wire of 20 SWG for 10 KVA, 16 SWG for 25 KVA, 12 SWG for 50 KVA, MCB/MCCB for 100 KVA	
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. Check earthing of LV Box, cable armour and all earth connections as per approved E&B plan.	
10.	Arcing horn HV busing	Check flash mark on arcing horn. Attend, if flash over marks observed & check the arcing horn gap. Arcing horn gap for split type is 100 mm+100 mm, for non-split type-165 mm	Attend
11.	Miscellaneous, if any.		

Half Yearly:

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 gap)
3.	Additional arcing horn on fixed 9- Ton insulator	Check for any flash mark on arcing horn and measure the gap of arcing 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.	Measure earth resistance	Check earth connections, measure & record the earth resistance of AT earth pit by earth tester.	Not more than 8.0 ohm.
6.	Attention to Earth pit and connection	Ensure provision of pit box and cover as per approved drawing. Apply petroleum jelly on connections/bolts. Paint ER value on the cover with black letters and	All connections shall be tight and bonds properly dressed without uplifting. Plant bond flats with two coats of grass green

		yellow back ground.	colour.
7.	LT cable	Check & replace damage, overheating of wires, lugs etc. of LT cable. Measure & record IR value of cable: Between AT to ICDP (MCCB) switch. Between ICDP (MCCB) switch to ACO panel by 500 V megger.	2 M ohm min. at 30 ⁰ Temperature.
8.	Miscellaneous, if any.		

Yearly:

SN	Item	Inspection And Work To Be CarriedOut	Remarks
1.	Carry out following work in addition to half yearly schedule		
2.	Winding continuity	Measure & record winding continuity on all tapings with multimeter /500 V megger.	
3.	Tap changer	Check the smooth operation of tapchanger on all tapings	
4.	Acidity of oil	Check the acidity of transformer oil.	Maximum 0.5mg KOH/gm
5.	Ratio test	Conduct ratio test by applying AC supply to HV winding and measure the voltage at LV side winding.	
6.	Jumpers	Check HT and LT jumpers & lugs for loose & flash mark. Replace, if loose & flash.	
7.	Painting	Paint to be done, if color of tank is faded/rusted. Paint to be done with epoxy and polyurethane paints as per A& C slipno. 8 to the RDSO specification no. ETI/PSI/118(10/93) or as per OEM's manual.	

TENDER FORMS & ANNEXURES

PART- VII

TENDER FORMS

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

Description of Work:- Maintenance of 2x25kV Power Supply Installation in Madar- iqbalgarh section of DFCCIL Ajmer Unit, for a period of 24 (Twenty Four) months.

PSI Maintenance Activity

Schedule 1 Maintenance of Traction Sub Stations:

S. N	Description of Work	Unit	Total Quantity	Unit Rate including @18 % GST	Total Amount (Rs.)
1	Monthly Maintenance of 132/ 220 kV/55kV, 60/84/100 MVA Traction Power Transformer.	Each	180	1499.52	269913.60
2	Half Yearly Maintenance of 132/ 220 kV/55kV, 60/84/100 MVA Traction Power Transformer.	Each	18	2006.55	36117.90
3	Yearly Maintenance of 132/ 220 kV/55kV, 60/84/100 MVA Traction Power Transformer.	Each	18	3136.58	56458.44
4	Monthly Maintenance of 132/220kV TP SF-6 Circuit Breaker	Each	180	1003.27	180588.60
5	Half Yearly Maintenance of 132/220kV TP SF-6 Circuit Breaker	Each	18	1562.9	28132.20
6	Yearly Maintenance of 132 kV/220kV TP SF-6 Circuit Breaker	Each	18	1879.79	33836.22
7	Monthly Maintenance of 132/220kV Current Transformer (Protection)	Each	620	496.24	307668.80
8	Half Yearly Maintenance of 132/220kV Current Transformer	Each	62	745	46190.00
9	Yearly Maintenance of 132/220kV Current Transformer (Protection)	Each	62	1003.27	62202.74
10	Monthly Maintenance of 132/220kV Current Transformer (Metering)	Each	1440	496.24	714585.60
11	Half Yearly Maintenance of 132/220kV Current Transformer (Metering)	Each	144	749.75	107964.00
12	Yearly Maintenance of 132/220kV Current Transformer (Metering)	Each	144	1003.27	144470.88
13	Quarterly Maintenance of 132/220kV Potential Transformer (Metering PT)	Each	304	496.25	150860.00
14	Half Yearly Maintenance of 132/220kV Potential Transformer (Metering PT)	Each	152	496.24	75428.48

15	Yearly Maintenance of 132/220kV Potential Transformer (Metering PT)	Each	152	1003.27	152497.04
16	Monthly Maintenance of 120/198 kV Lightning Arrester	Each	1260	495	623700.00
17	Half Yearly Maintenance of 120/198 kV Lightning Arrester	Each	252	1003.27	252824.04
18	Monthly Maintenance of 132/220kV TP Motorised Isolator with or without earthing heel	Each	540	497	268380.00
19	Half Yearly Maintenance of 132/220kV TP Motorised Isolator with or without earthing heel	Each	54	749.75	40486.50
20	Yearly Maintenance of 132/220kV TP Motorised Isolator with or without earthing heel	Each	54	1130.03	61021.62
21	Monthly Maintenance of 55 kV Current Transformer	Each	4000	496.24	1984960.00
22	Half Yearly Maintenance of 55 kV Current Transformer	Each	400	749.75	299900.00
23	Yearly Maintenance of 55 kV Current Transformer	Each	400	1003.27	401308.00
24	Monthly Maintenance of 55/72.2kV DP SF-6 Circuit Breaker	Each	1080	380	410400.00
25	Half Yearly Maintenance of 55/72.2kV DP SF-6 Circuit Breaker	Each	108	749.75	80973.00
26	Yearly Maintenance of 55/72.2kV DP SF-6 Circuit Breaker	Each	108	1498	161784.00
27	Monthly Maintenance of 55 /72.5 kV DP Motorised Isolator without earthing heel	Each	2520	746	1879920.00
28	Half Yearly Maintenance of 55/72.5 kV DP Motorised Isolator without earthing heel	Each	252	1256	316512.00
29	Yearly Maintenance of 55/72.5 kV DP Motorised Isolator without earthing heel	Each	252	1879	473508.00
30	Monthly Maintenance of 42/ 60 kV Lightning Arrester	Each	2160	380	820800.00
31	Half Yearly Maintenance of 42/60 kV Lightning Arrester	Each	432	623	269136.00
32	Monthly Maintenance of 55kV/27.5 kV, 12.3 MVA Auto Transformer	Each	480	1499	719520.00
33	Half Yearly Maintenance of 55kV/27.5 kV, 12.3 MVA Auto Transformer	Each	48	2005	96240.00

34	Yearly Maintenance of 55kV/27.5 kV, 12.3 MVA Auto Transformer	Each	48	3135	150480.00
35	Quarterly Maintenance of 25 kV Potential Transformer Protection PT	Each	144	496.24	71458.56
36	Half Yearly Maintenance of 25 kV Potential Transformer Protection PT	Each	96	750	72000.00
37	Yearly Maintenance of 25 kV Potential Transformer Protection PT	Each	48	1003.27	48156.96
38	Monthly Maintenance of 25 kV Current Transformer at Auto Transformer	Each	960	496.24	476390.40
39	Half Yearly Maintenance of 25 kV Current Transformer	Each	96	750	72000.00
40	Yearly Maintenance of 25 kV Current Transformer	Each	96	1003.27	96313.92
41	Monthly Maintenance of 25 kV DP Circuit Breaker	Each	400	380.28	152112.00
42	Half Yearly Maintenance of 25 kV DP Circuit Breaker	Each	40	749.75	29990.00
43	Yearly Maintenance of 25 kV DP Circuit Breaker	Each	40	1499.52	59980.80
44	Monthly Maintenance of 25 kV DP Motorised Isolator without earthing heel	Each	360	750	270000.00
45	Half Yearly Maintenance of 25 kV DP Motorised Isolator without earthing heel	Each	36	1256.79	45244.44
46	Yearly Maintenance of 25 kV DP Motorised Isolator without earthing heel	Each	80	1879.79	150383.20
47	Monthly Maintenance of 25 kV DP Interrupter	Each	200	380.28	76056.00
48	Half Yearly Maintenance of 25 kV DP Interrupter	Each	20	749.75	14995.00
49	Yearly Maintenance of 25 kV DP Interrupter	Each	20	1499.52	29990.40
50	Quarterly Maintenance of 25kV/240V, 100kVA LT Auxiliary Transformer	Each	48	380.28	18253.44
51	Half Yearly Maintenance of 25kV/240V, 100kVA LT Auxiliary Transformer	Each	24	749.75	17994.00
52	Yearly Maintenance of 25kV/240V, 100kVA LT Auxiliary Transformer	Each	24	2006.55	48157.20
53	Monthly Maintenance of 55kV/0.65 kV, 3 MVA Transformer of Capacitor bank.	Each	240	380	91200.00
54	Half Yearly Maintenance of 55kV/0.65 kV, 3 MVA MVA Transformer Capacitor bank.	Each	24	746	17904.00

55	Yearly Maintenance of 55kV/0.65 kV, 3 MVA Transformer Capacitor bank.	Each	24	2005	48120.00
56	Quarterly maintenance of 2500 KVAR CAPACITOR Bank Including Series REACTOR	Each	72	749.75	53982.00
57	Half yearly maintenance of 2500 KVAR CAPACITOR Bank Including Series REACTOR	Each	48	2006.55	96314.40
58	Yearly maintenance of 2500 KVAR CAPACITOR Bank Including Series REACTOR	Each	24	3009.82	72235.68
59	Quarterly Maintenance of 25 kV Neutral Current Transformer	Each	72	749.75	53982.00
60	Yearly Maintenance of 25 kV Neutral Current Transformer	Each	24	1499.52	35988.48
61	Fortnightly battery & battery charger maintenance of TSS	Each	276	496.24	136962.24
62	Yearly battery & battery charger maintenance of TSS	Each	12	12028.5	144342.00
63	Half Yearly maintenance of Earthing station	Each	1184	190.14	225125.76
64	Yearly Buried Rail Connection	Each	12	20054.69	240656.28
65	Half Yearly Thermal Imaging of Equipment connector	Each	2000	496.24	992480.00
66	Yearly Maintenance of Earth Screen Conductor	Each	12	1879.79	22557.48
67	Yearly maintenance of Cable Trench Cleaning	Each	12	10021.95	120263.40
68	Reclamation of DCP(5kG,10 kG & 25 kG),CO2(9kG) & form type fire extinguisher.	Each	24	75.91	1821.84
69	Refilling of DCP(5kG,10 kG & 25 kG),CO2(9kG) & form type fire extinguisher.	Each	24	618.32	14839.68
				Total of Schedule 01	15797019.22

Schedule 2 SP/SSPs/ATS/PP Maintenance :

S. N	Description of Work	Unit	Total Quantity	Unit Rate including @18 % GST	Total Amount (Rs.)
1	Monthly Maintenance of 8 MVA/ 12.3 MVA Auto Transformer	Each	960	1499	1439040
2	Half Yearly Maintenance of 8 MVA / 12.3 MVA Auto Transformer	Each	96	2005	192480

3	Yearly Maintenance of 8 MVA/ 12.3 MVA Auto Transformer	Each	96	3135	300960
4	Monthly Maintenance of 25 kV Current Transformer at Auto Transformer	Each	1920	496.24	952780.80
5	Half Yearly Maintenance of 25 kV Current Transformer	Each	192	750	144000.00
6	Yearly Maintenance of 25 kV Current Transformer	Each	192	1003.27	192627.84
7	Monthly Maintenance of 25 kV DP Interrupter	Each	4060	380.28	1543936.8
8	Half Yearly Maintenance of 25 kV DP Interrupter	Each	406	749.75	304398.5
9	Yearly Maintenance of 25 kV DP Interrupter	Each	406	1499.52	608805.12
10	Monthly Maintenance of 25 kV DP Isolator (Manual)	Each	7160	746	5341360
11	Half Yearly Maintenance of 25 kV DP Isolator (Manual)	Each	716	1256.79	899861.64
12	Yearly Maintenance of 25 kV DP Isolator (Manual)	Each	716	1879.79	1345929.64
13	Monthly Maintenance of 25 kV SP Isolator (Manual)	Each	7160	380	2720800
14	Half Yearly Maintenance of 25 kV SP Isolator (Manual)	Each	12	749.75	8997
15	Yearly Maintenance of 25 kV SP Isolator (Manual)	Each	12	1130.03	13560.36
16	Quarterly Maintenance of 25 kV Potential Transformer .	Each	256	496.24	127037.44
17	Half Yearly Maintenance of 25 kV Potential Transformer.	Each	128	750	96000
18	Yearly Maintenance of 25 kV Potential Transformer .	Each	128	1003.27	128418.56
19	Monthly Maintenance of 42 kV Lightning Arrester	Each	7940	380	3017200
20	Half Yearly Maintenance of 42 KV Lightning Arrester	Each	1588	623	989324
21	Quarterly Maintenance of 25kV/240V, 10kVA LT Auxiliary Transformer with LT cable up to ACDB	Each	336	380.28	127774.08
22	Half Yearly Maintenance of 25kV/240V, 10kVA LT Auxiliary Transformer with LT cable up to ACDB	Each	168	749.75	125958
23	Yearly Maintenance of 25kV/240V, 10kVA LT Auxiliary Transformer with LT	Each	168	2006.55	337100.4

	cable up to ACDB				
24	Fortnightly battery & battery charger maintenance at SCPs	Each	3864	496.24	1917471.36
25	Yearly Maintenance of Battery And Battery Charger	Each	168	12028.5	2020788
26	Half Yearly maintenance of Earthing Station	Each	2146	190.14	408040.44
27	Yearly Maintenance of Earthing station	Each	2146	190.14	408040.44
28	Yearly maintenance Buried Rail Connection	Each	84	20054.69	1684593.96
29	Monthly Maintenance of 25 kV SP Interrupter	Each	120	380.28	45633.6
30	Half Yearly Maintenance of 25 kV SP Interrupter	Each	12	749.75	8997
31	Yearly Maintenance of 25 kV SP Interrupter	Each	12	1499.52	17994.24
32	Half Yearly Thermal Imaging of Equipment connector	Each	2000	496.24	992480
33	Yearly Maintenance of Earth Screen Conductor for complete SCP.	Each	84	1879.79	157902.36
34	Yearly maintenance of Cable Trench Cleaning	Each	84	4013.1	337100.4
35	Reclamation of DCP (5kG, 10 KG & 25 KG),CO2(9kG) & form type fire extinguisher.	Each	168	75.91	12752.88
36	Refilling of DCP (5kG, 10 KG & 25 KG),CO2 (9kG) & form type fire extinguisher.	Each	168	618.32	103877.76
			Total of Schedule 02		29074023

Schedule 3 -Panels & Gantry Bus Bar insulator other Maintenance:

S. N	Description of Work	Unit	Total Quantity	Unit Rate including @18 % GST	Total Amount (Rs.)
1	Monthly panel maintenance in TSS	Each	144	3099.98	446397
2	Monthly panel maintenance in SP/SSP	Each	1008	1549.99	1562390
3	Half yearly Cross gantry or any others Gantry Bus Bar maintenance of TSS	Each	24	17950.35	430808
4	Half yearly Cross gantry or any others Gantry Bus Bar maintenance of SP/SSPs	Each	152	12401.09	1884966

5	Half yearly Cross gantry or any others Gantry Bus Bar maintenance of PPs	Each	16	6200.55	99209
6	Removal and re-erection of PSI Equipment	Each	30	6201.14	186034
7	Supply & Erection of Caution Board	Each	125	332.8	41600
8	Supply and spreading of ballast/Pebbles /Gravels in Switching Stations/TSS yard	CUM	200	1498.11	299622
9	Reinforce concrete for cable trench & cover	Sqm.	250	1441.91	360478
10	Supply and repainting of PSI equipment like Transformer, CT, PT, LA, BM CB, AT as per site requirement with water proof grey enamelled paint by approve brand i.e Asian, Berger etc. as per IS 2932 all latest.	Sqm.	5000	42.38	211900
11	Supply and re paininting of PSI assets i.e. Fencing Panels, Fencing UP right, bar-bared wire, Tubular pole at TSS/SP/SSP with Aluminium Paint i.e. Asian Berger etc. as per IS 2339 or latest	Sqm.	10000	38.7	387000
12	Supply and erection of Earth Pit cover & Box	Each	100	984	98400
13	Provision of Shock Treatment Chart	Each	100	944.57	94457
14	Drilling of holes in mast/ rails with contractor own labour and T&P complete.	Each	40	40.89	1636
15	Supply and erection of earth leads 75 x 8 mm mild steel flat laid in the ground or exposed as per site requirement	Mtr	200	282.36	56472
16	Supply and erection of earth leads 50 x6 mm mild steel flat laid in the ground or exposed as per site requirement	Mtr	500	156.98	78490
17	Supply and erection of 8 SWG GI Wire for earthing.	Mtr	200	41.09	8218
				Total of Schedule 03	6248076

Schedule 4: -TSS Manning & Housekeeping:**(Note: Please quote either “At Par” or “Above” in the schedule -04)**

S. N	Description of Work	Unit	Total Quantity	Unit Rate including @18 % GST	Total Amount (Rs.)
1	Regular House Keeping of TSS	Man Month	144	17400.00	2505600
2	Manning of TSS (optional as per requirement)	Man Month	270	28751.00	7762770
3	Maniing of SCPs (optional as per requirement)	Man Month	108	24488.00	2644704
				Total of Schedule -04	12913074

Schedule 5 -Break down attention

S. N	Description of Work	Unit	Total Quantity	Unit Rate including @18 % GST	Total Amount (Rs.)
1	Breakdown attention of PSI equipments at TSS/SP/SSPs	Hrs	150	666.05	99908
2	Maintenance of 25 KV dropout fuse AT TSS/SP/SSP	Each	150	1116.00	167400
3	Manning of SP/SSP in case of Emergency	Man Days	600	1320.80	792480
				Total of Schedule -05	1059788

Schedule 6 Additional PSI maintenance Activity

S. N	Description of Work	Unit	Total Quantity	Unit Rate including @18 % GST	Total Amount (Rs.)
1	Dismantling, supply, erection & commissioning of LA, CT, PT, CB & BM in case of break down/bursting of the equipment- As per Annexure-A	As per Annexure A	As per Requirement	As per Annexure A	2500000
				Total of Schedule -06	2500000

Schedule 7: Maintenance of Traction Sub Stations /SCPs (Optional)

S. N	Description of Work	Unit	Total Quantity	Unit Rate Including @18 % GST	Total Amount (Rs.)
1	Oil Filtration for power Transformer: Streamline Oil filtration work & Conservator tank	Litres	L.S	2.30	
2	Oil Filtration for power Transformer :Oil to be drained from main tank and to be stored in separate Containers	Litres	L.S	0.62	
3	Oil Filtration for power Transformer: Refilling of oil from container to Main Tank after filtration.	Litres	L.S	0.62	
4	Bushings Oil leakage attention in Transformer: Streamline Oil filtration work & Conservator tank	Litres	L.S	2.30	
5	Bushings Oil leakage attention in Transformer: Oil to be drained from main tank and to be stored in separate Containers	Litres	L.S	0.62	
6	Bushings Oil leakage attention in Transformer: Refilling of oil from container to Main Tank after filtration.	Litres	L.S	0.62	
7	Bushings Oil leakage attention in Transformer: Leakage attention to OLTC tapping Gear and new Gasket O-ring changing work	Job	L.S	6837.68	
8	Bushings Oil leakage attention in Transformer: Leakage attention of HV Bushings - 3 Nos and bottom Flange and its related works	Job	L.S	14918.57	
9	Bushings Oil leakage attention in Transformer: Leakage attention of LV Bushing CT Box and replacement of new gasket and its related works	Job	L.S	3729.64	
10	Bushings Oil leakage attention in Transformer: Leakage attention of HV inspection covers, Pipe line Gasket attention and replacement and its related works	Job	L.S	6837.68	
11	Bushings Oil leakage attention in Transformer: Rental Charges for Cranes	Day	L.S	6837.68	
12	Bushings Oil leakage attention in Transformer: Transport charges for oil filtration van up & down, Toll	Trip	L.S	13737.52	

13	Bushings Oil leakage attention in Transformer: Transport Charges for empty barrels vehicle up & down, Toll	Trip	L.S	21134.64	
14	Bushings Oil leakage attention in Transformer: Supply of Grade-1 New gasket (6mm and 10mm)	Set	L.S	8702.50	
15	Bushings Oil leakage attention in Transformer: Oil leakage attention and overhauling of TAP Changer Streamline Oil filtration work & Conservator tank	Litres	L.S	2.23	
16	Bushings Oil leakage attention in Transformer: Oil to be drained from main tank and to be stored in separate Containers	Litres	L.S	0.62	
17	Bushings Oil leakage attention in Transformer: Refilling of oil from container to Main Tank after filtration.	Litres	L.S	0.62	
18	Oil Leakage attention and overhauling of TAP changer: Leakage attention to OLTC tapping gear and new Gasket O ring changing work	Job	L.S	5594.46	
19	Oil Leakage attention and overhauling of TAP changer: Rental and Transportation charges for oil barrels for storing Transformer oil	Job	L.S	8080.89	
20	Oil Leakage attention and overhauling of TAP changer Transformer oil Transformer oil Transportation charges for oil filtration van up & down	Trip	L.S	4475.57	
21	Calibration of Measuring instruments [Will be paid based on the submission of proof of bill of calibrated instruments in the NABL accredited labs]	LS	L.S	52678.57	
				Total of Schedule -07	800000

Schedule 8: Schedule for oil testing

	Testing of Transformer Oil as per IS:1866 of all Traction, Auto, and Distribution Transformer installed at different stations and location between Madar - Iqbalgarh section	Unit	Total	Unit Rate@18 % GST	Total Amount
1	Physical Condition & Appearance of Oil (Colour & Order)	Per Sample	115	120.36	13841.40
2	Density at Room Temperature	Per Sample	115	180.54	20762.10

3	Electric Breakdown Voltage	Per Sample	115	361.08	41524.20
4	Moisture Content by Karl Fisher Method	Per Sample	115	601.8	69207.00
5	Neutralization Value	Per Sample	115	601.8	69207.00
6	Specific Resistance at room temperature & 90 degree C	Per Sample	115	962.88	110731.20
7	Dissipation Factor (tan 0) at room temp. & 90 degree C	Per Sample	115	962.88	110731.20
8	Interfacial tension test at + room temp	Per Sample	115	361.08	41524.20
9	Flash Point	Per Sample	115	240.72	27682.80
10	Sediment & Perceptible Sludge	Per Sample	115	240.72	27682.80
11	Dissolved Gas Analysis	Per Sample	115	3249.72	373717.80
12	Furan Analysis	Per Sample	115	4068.17	467839.32
13	Sample Collection Charges	Per Sample	115	601.8	69207.00
14	Transportation Charges	Per Job	1	12036.00	12036.00
				Total for Schedule 08	1455694.02
				Grand Total Schedule 01 to 08	69847673.58
				Amount excluding 18 % GST	59192943.71

Description of Work:-Maintenance of 2x25kV Power Supply Installation in Madar- Iqbalgarh section of DFCCIL Ajmer Unit, for a period of 24 (Twenty Four) months.

Column 1	Column 2	Column 3
S.N.	Description of Work	Estimated Cost
1	Schedule 1: Maintenance of Traction Sub Stations	15797019.22
2	Schedule 02: - SP/SSP/ATS/PP Maintenance	29074022.62
3	Schedule -03: Panels & Gantry Bus Bar insulator other Maintenance:	6248076.22
4	Schedule 04: TSS Manning & House keeping	12913074.00
5	Schedule 05: -Break down attention	1059787.50
6	Schedule 06: Additional PSI maintenance Activity	2500000.00
7	Schedule 07: Maintenance of Traction Sub Stations /SCPs	800000.00

	(Optional)	
8	Schedule 08: Schedule for oil testing	1455694.02
	Total Estimated Cost including GST @ 18 %	69847673.58
	Total Estimated Cost Excluding GST @ 18 %	59192943.71
Rupees Six Crore Ninety Eight Lakhs Forty Seven Thousand Six Hundred Seventy Three and Fifty Eight Paise Only		
(Note: Please quote either “At Par” or “Above” in the schedule -04)		

Annexure-A			
Spares (Optional Items) required for maintenance of TSS, SP & SSP			
SN	Description of Work	Unit	Rate@ 18 % GST
1	Supply of Lightning Arrester- 42 kV	Each	30924.43
2	Erection of Lightning Arrester- 42 kV	Each	634.25
3	Supply of Lightning Arrester- 120 kV	Each	189034.95
4	Erection of Lightning Arrester- 120 kV	Each	1328.55
5	Supply of Lightning Arrester- 198 kV	Each	189034.95
6	Erection of Lightning Arrester- 198 kV	Each	2316.8
7	Supply of Lightning Arrester- 60 kV	Each	30924.43
8	Erection of Lightning Arrester- 60 kV	Each	634.25
9	Supply of CT- 220 kV	Each	323057.66
10	Erection of CT- 220 kV	Each	7088.43
11	Supply of CT- 132 kV	Each	323057.66
12	Erection of CT- 132 kV	Each	1875.36
13	Supply of CT- 25 kV	Each	90362.71
14	Erection of CT- 25 kV	Each	774.38
15	Supply of PT- 25 kV	Each	85754.39
16	Erection of PT- 25 kV	Each	906.07
17	Supply of PT- 220 kV	Each	218493.86
18	Erection of PT- 220 kV	Each	7884.93
19	Supply of PT- 132 kV	Each	222492.16
20	Erection of PT- 132 kV	Each	12346.8
21	Supply of CB- 25 kV SP	Each	497621.8
22	Erection of CB- 25 kV SP	Each	5887.36
23	Supply of Isolator 25 kV DP with Insulators	Each	104344.66
24	Erection of Isolator 25 kV DP	Each	3322.96
25	Supply of Isolator 25 kV SP	Each	57695.68
26	Erection of Isolator 25 kV SP	Each	3322.96
27	Supply and erection Earth Electrodes	Each	4291.2
28	Supply and erection of all types of galvanised Steel Structures, Small Parts Steel etc	MT	109265.89

29	Erection of all types of galvanised Steel Structures, Small Parts Steel etc	MT	3671.7
	25 kV Outdoor Double Pole VCB type VSE 5/20 DP/Single POLE VCB Type VSE 5/20 Make: ALIND		
30	Tripping Coil	Each	10114.29
31	Closing COIL	Each	10114.29
32	Spring Charging Motor With latch	Each	45303.57
33	Auxiliary Switch (8NC+8NC) with crank	Each	24021.43
34	Motor Limit Switch (3No+3No) with Crank	Each	12116.07
35	Local/Remote Selector Switch	Each	8217.86
	25 kV Outdoor Double Pole VI Type VSE 5/8 DP/Single POLE VI TYPE VSE 5/8 Make: ALIND		
36	Tripping Coil	Each	10114.29
37	Closing COIL	Each	10114.29
38	Supply of 132/220kV support insulator	Each	39432.02
39	Erection of 132/220kV support insulator	Each	627.93
40	Supply of 25 kV support insulator	Each	4820.09
41	Erection of 25 kV support insulator	Each	181.21
42	Supply 28.62 mm Dia ACSR conductor	Mtr	1075.7
43	Erection of ACSR conductor	Mtr	20.02
44	Supply of 19/2.5 mm Gavanised steel stranded earth wire including termination	Mtr	276.04
45	Erection of 19/2.5 mm Gavanised steel stranded earth wire including termination	Mtr	13.7
46	Supply & erection of 220 KV termination with/without adjuster complete with disc insulators	Each	14294.86
47	Erection of 220 KV termination with/without adjuster complete with disc insulators	Each	500.45
48	Supply of 50 mm dia aluminum tubular busbar including including connectors	Mtr	1554.02
49	Erection of 50 mm dia alluminum tubular busbar including including connectors	Mtr	62.16
50	Battery set for TSS- 400Ah	Set	772798.72
51	Battery set for SP SSP and AT 120Ah	Set	288320
52	Battery Set for SSP-B- 40Ah	Set	92859.43
53	Battery Charger for SSP-B- 5A	Set	90406.86

FORM No. 2

**SAMPLE
STANDING INDEMNITY BOND FOR "ON ACCOUNT" PAYMENTS**

(On paper of requisite stamp value)

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

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

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

Dated this day _____ day of _____ 200 For and on behalf of M/s _____ (Contractor) Signature of witness

Name of witness in Block letter. Address.

PRE CONTRACT INTEGRITY PACT**General**

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

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

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

NOW, THEREFOR,

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

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

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

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

Commitments of the CLIENT

- 1.0 The CLIENT undertakes that no official of the CLIENT, connected directly or indirectly with the Contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER either for themselves or for any person, organization or third party related to the Contract, in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the Contract.
- 1.1 The CLIENT will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information

to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.

- 1.2 All the officials of the CLIENT will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such breach.
2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the CLIENT with full, and verifiable facts and the same is prima facie found to be correct by the CLIENT, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the CLIENT and such a person shall be debarred from further dealings related to the Contract process. In such a case while an enquiry is being conducted by the CLIENT the proceedings under the Contract would not be stalled.

Commitments of BIDDERS

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

before signing the Contract shall disclose any payments he has made, is committed to or intends to make to officials of the CLIENT or their family members, agents, brokers or any other intermediaries in connection with the Contract and the details of services agreed upon for such payments.

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

4. Previous Transaction

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

5. Earnest Money (Security Deposit)

- 5.1 While submitting commercial bid, the BIDDER shall deposit an amount ____ (to be

specified in RFP) as Earnest Money/Security Deposit, with the CLIENT through any of the following instruments:-

- i. Bank draft or a pay order in favour of_____.
- ii. A confirmed guarantee by an Indian nationalized bank, promising payment of the guaranteed sum to the CLIENT on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the CLIENT shall be treated as conclusive proof or payment.
- iii. Any other mode or through any other instrument (to be specified in the RFP).

5.2 The earnest money/Security deposit shall be valid up to a period of five years or the contractual obligations to the complete satisfaction of both the BIDDER and the CLIENT, including warranty period, whichever is later.

5.3 In case of the successful BIDDER a clause would also be incorporated in the article pertaining to performance Guarantee in the Contract that the provisions of sanctions for violation shall be applicable for forfeiture of performance bond in case of a decision by client to forfeit the same without assigning any reason for imposing sanction for violation of this pact.

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

6. Sanctions for Violations

6.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER shall entitle the CLIENT to take all or any one of the following actions, wherever required:-

- (i) To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the [A]. However, the proceedings with the other BIDDER(s) would continue.
- (ii) The earnest money deposit (in pre-contract stage) and/or security Deposit/performance Bond (after the Contract is signed) shall stand forfeited fully and the CLIENT shall not be required to assign any reason therefore.
- (iii) To immediately cancel the Contract, if already signed, without giving any compensation to the[A].
- (iv) To recover all sums already paid by the CLIENT, and in case of an Indian [A] with interest thereon at 2% higher than the prevailing prime lending rate of state bank of India, while in case of a BIDDER from the country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to BIDDER from the CLIENT in connection with any other Contract, such outstanding payment could also be utilized to recover the aforesaid sum and interest.

- (v) To encash the advance bank guarantee and performance bond, if furnished by the [A], in order to recover the payments, already made by CLIENT, along with interest.
- (vi) To cancel all or any other contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the Client resulting from such cancellation/rescission and the client shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- (vii) To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which may be further extended at the discretion of the CLIENT.
- (viii) To recover all sums paid in violation of this pact by BIDDER to any middle man or agent or broker with a view a view to securing Contract the contract.
- (ix) In cases where irrevocable letters of credit have been received in respect of any Contract signed by the client with the BIDDER, the shall not be opened.
- (x) Forfeiture of Performance Bond in case of a decision by the client to forfeit the same without assigning any reason for imposing sanction for violation of this pact.
- (xi) The client will have entitled to take all or any of the actions mentioned at para 6.1(i) to (x) of this pact also on the commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the [A], of an offence as defined in chapter IX of the Indian penal code, 1860 or prevention of Corruption Act,1988 or any other statute enacted for prevention of corruption.

6.2 The decision of the CLIENT to the effect that a breach of the provisions of this pact has been committed by the BIDDER shall be final and conclusive on the [A]. However, the BIDDER can approach the Independent Monitor(s) appointed for the purposes of this Pact.

7. Fall Clause

7.1 The BIDDER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/system or subsystems way supplied by BIDDER to any other Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the CLIENT, if the Contract has already been concluded.

8. Independent Monitors

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

8.2 The task of the Monitors shall be to review independently and objectively,

- whether and to what extent the parties comply with the obligations under this pact.
- 8.3 The monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 8.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.
- 8.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the CLIENT
- [A] 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 BIDOER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid Interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor shall be und 'contractual obligation to treat the information and documents of the With confidentiality.
- 8.6 The client will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 8.7 The monitor will submit a written report to the MD/DFCCIL within 8 to 10 weeks from the date of reference or intimation to him by the CLIENT/BIDDER and, should the occasion arise, submit proposal for correcting problematic situations.
9. Facilitation of Investigation
In case of any allegation of violation of any provisions of this Pact or payment of commission, the CLIENT or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall exte4nd all possible help for the purpose of such examination.
10. Law and Place of Jurisdiction
This pact is subject to Indian law. The place of performance and jurisdiction is the seat of the CLIENT.
11. Other Legal Actions
The actions stipulated in this integrity pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.
12. Validity
- 12.1 The validity of this integrity pact shall be from date of its signing and extend up to 5 years or the complete execution of the Contract to the satisfaction of both the CLIENT and the BIDDER including warranty period, whichever is later. In case BIDDER is unsuccessful, this integrity pact shall expire after six months from the date of the signing of the Contract.
- 12.2 Should one or several provisions of this pact turn out to be invalid; the remainder of this pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.
13. The parties hereby sign this integrity pact at.....On.....

CLIENT

BIDDER

Name of the Officer
Designation
Deptt./Ministry/PSU

Witness
1. _____
2.

Witness
1.
2.

ANTI-PROFITEERINGDECLARATION

TO WHOMSOEVER IT MAYCONCERN

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

- 1) That Iam the_____<Designation of the authorized signatory> of
And I am duly authorized to furnish this undertaking/declaration on behalf of
..... (Name of the company).
- 2) That (Name of the company) has been
awarded the work (Name of Work) vide Letter of
Award number Dated by M/s Dedicated Freight Corridor
Corporation of India Limited.
- 3) That the Company is fully aware of the anti-profiteering provision under the Goods
& Services Tax ("GST")Law(s),
- 4) That the Company Has passed the benefit of input tax credit
available on the.....(good/services) having HSN.....
supplied to M/s Dedicated Freight Corridor Corporation of India Limited which it is
getting on account of reduced tax liability and input tax credit because of enactment
of GST Laws after introduction of Goods and Service Tax w.e.f. 1st July, 2017. The
details and amounts being passed on to DFCCIL are provided in Annexure Of this
document and areas per applicable GST Laws. These are true and correct to the
best of my knowledge, information and belief.
- 5) Further, it is to confirm also that in case (name of the organization) will
receive any further benefit in future after 1st July, 2017 by way of availment of input

tax credits which were not allowed to be availed before 1st July, 2017 or reduction in tax rates or in any other manner which results in reduction of cost of the goods/services supplied to M/s Dedicated Freight Corridor Corporation of India Limited, then Company will pass that benefit to M/s Dedicated Freight Corridor Corporation of India Limited also.

- 6) That I declare that the foregoing is true and correct and the same is a legal obligation and failure to fulfil it could result in penalties under the law.
- 7) I confirm that I am aware of the implication of the above undertaking and our liability on account of incorrect/misleading declaration under the GST Laws.

Signature of the Authorized signatory/ person

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

Name of the Organization and Seal

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

ANNEXURE-I

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

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

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

Note:- 1. Please enclosed-

(i) Attested copy/copies of the constitution of their firm

(ii) Copy of PAN CARD.

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

Date:

Signature of Tenderer/s

With Seal

ANNEXURE-II

(Para 16.1(b) of General Instructions)& clause No. 6.1 & 11(iv) Part-I of
GCC APRIL-2022, with up to date correction slip

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

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

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

SEAL AND SIGNATURE
OF THE TENDERER

Place:
Dated:

** The contents in Italics are only for guidance purpose. Details as appropriate are to be filled in suitably by tenderer. **This certificate is to be given by each member of JV or Partners of Partnership firm/LLP etc.**

“ANNEXURE -III”

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

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

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

Date:

Signature of Tenderer/s
With Seal

Note:-

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

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

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

ANNEXURE-IV(A)

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

COMPLETION CERTIFICATE

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

Letter No. Date:-.....

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

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

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

Date-

(Signature)

Name and Designation of officer

Mobile No. of officer

Seal of officer

Note:-

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

ANNEXURE-IV-(B)

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

COMPLETION CERTIFICATE

(If the work is awarded by Concessionaire)

Name of Concessionaire

Address and Contract details i.e.

Phone No.FAX, e-mail.

Letter No.

Date:-.....

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

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

of the Concessionaire with Seal and

Signature & Name of Authorized Person

Mobile No. of Issuing Person.

Note:-

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

ANNEXURE-IV-(C)

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

COMPLETION CERTIFICATE

(If the work is awarded by Public listed company)

Name of the public listed company

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

Letter No. Date:-.....

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

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

Date

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

Note:-

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

1. Details of Average Annual turnover of the public listed company in last three financial years excluding current financial year (should be 500 Cr and above) issued by Chartered Accountant. These details need to be submitted as per the proforma of Annexure VIII.
2. The copy of the documents regarding listing in the National stock exchange or Bombay stock exchange with details of status of listing as on date of opening of tender, duly self-attested.
3. The copy of the document of incorporation/ registration of the Public listed company (should be at least 5 years prior to date of opening of tender), duly self-attested.
4. The copy of document regarding Person Authorized by the Public listed Company to issue such certificate, duly self-attested.
5. The relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant. TDS certificates for all payments received a copy of final/last bill paid by the public listed company in support of above work experience certificate duly self-attested.
 - (i) The certificate shall not be taken into consideration if any of the above conditions, prerequisites is not fulfilled or required supporting mandatory documents are found deficient. Submission of false certificates by tenderer shall lead to, forfeiture of EMD and other action including penal action (Annexure-II).
 - (ii) Above format is for guidance only. Any certificate containing required information asked for shall be considered
 - (iii) In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of advertised value of the tender (for works without composite components).
 - (iv) In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of cost of any component of work in separate sheet (for work with composite components).
 - (v) Only those works will be treated as composite works which consist of more than one distinct component such as Civil Engg, Works, S&T work, Electrical work, OHE work etc. and there is separate schedule for each such distinct components in the tender document
 - (vi) In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials.
 - (vii) If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for **fulfillment** of credentials.
 - (viii) If a part or a component of work is completed but the overall scope of contract is not **completed**, this work shall not be considered for fulfillment of technical credentials even if the cost of part completed work/component is more than required for fulfillment of credentials.

- (ix) In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost of that work including PVC amount if any shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.
- (x) For col 7 & 12 -The value of final bill including PVC amount-if paid, or otherwise in case final bill is pending the contract cost in last approved variation statement plus PVC amount paid or cumulative amount paid up to last on-account bill including PVC amount and statutory deductions whichever is less, shall be considered as the completion cost of work/ component.
- (xi) In case, the Secondary Component(s) has/ have been defined in clause 15.5 above, the Attested copy of Completion Certificate of works executed by tenderer himself / the subcontractor (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor) during last five years, shall also be submitted in above performa.

ANNEXURE-V

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

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

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

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

Date

Signature of Chartered Accountant

Signature of Tenderer/s with seal

NOTE :-

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

ANNEXURE-VI

(Para 16.1 (h) of General Instructions)

Clause No.11(iii) Annex.I of Part-I of GCC APRIL-2022 ,with up to date correction slip.**LIST OF PLANTS & MACHINERY AVAILABLE ON HAND AND PROPOSED TO BE INDUCTED (OWN AND HIRED TO BE GIVEN SEPARATELY) FOR SUBJECT WORK.**

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

Note:

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

Signature of Tenderer/s

Dated:-----

ANNEXURE-VII

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

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

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

Signature of Tenderer/s

Dated:-----

ANNEXURE-VIII

(Para 16.1 (k) of General Instructions)

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

(Each Bidder or each member of a JV must fill in this form separately)**NAME OF BIDDER/JV PARTNER:**

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

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

SEAL AND SIGNATURE OF THE BIDDER

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

(Signature of Chartered Accountant)**Name of CA:** _____**Registration No:** _____***(Seal)***

ANNEXURE-IX

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

CERTIFICATE

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

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

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

(Indicate Name – Proprietary firm) at

Deponent

Signature and Seal

VERIFICATION

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

Deponent

Signature and Seal

Place:-

Date:-

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

ANNEXURE-X

(Para 16.2.7 (a) of General Instructions)

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

MEMORANDUM OF UNDERSTANDING FOR JV

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

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

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

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

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

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

receive payment, to witness joint measurement of work done, to sign measurement books and similar such action in respect of the said tender/contract. All notices/ correspondence with respect to the contract would be sent to this authorized member..... (Address) of the JV firm. In case the offer is submitted by the person other than those who is appointed as above and there is difference between the name of the person authorized as above and the person who digitally submitted the offer then our offer shall be deemed to be summarily rejected.

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

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

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

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

With Seal of parties

Witnesses with name & full address:-

1.....

2.....

Date.....

Place.....

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

Annexure-XI

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

"LETTER OF CONSENT"

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

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

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

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

This letter of consent is made at on

Name & Signature of Partner/s

(Signature of Sh.....)

DATE..... 1.

2.

3.

Place..... 4.

5.

Seal of the Firm

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

Annexure-XII

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

SPECIAL POWER OF ATTORNEY

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

BE IT KNOWN to all that I (Indicate name of Director/Sole Prop.)..... at the Company/Proprietary firm/HUF (Indicate Name of Company / Sole Proprietary firm/HUF)

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

“T.No.....Name of work.....”

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

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

For M/s.....

(Sign. of Shri.....)

(Sign& Seal) Place...

Date:-.....

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

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

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

Annexure-XIII

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

SPECIAL POWER OF ATTORNEY
(For Partnership Firms only)

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

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

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

(Signature of Sri.....)

Executants Partner
(Name & signature)

DATE

1.....

2.....

3.....

Place :-

4.....

Seal of Firm

Seal of Firm

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

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

Annexure-XIV

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

SPECIAL POWER OF ATTORNEY

(For Sole Proprietor Firm only) BE IT KNOWN

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

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

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

(Signature with name of Power attorney Holder)

(Name & signature of sole proprietor)

Dated

Place

(Seal of Firm)

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

(Not required if tender is uploaded by Proprietor himself)

Annexure-XV

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

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

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

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

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

(Signature of Shri.....)

Authorized signatory of the firm

Dated.....

Place

Seal of Firm

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

ANNEXURE-XVI**MODEL FORM OF BANK GUARANTEE BOND FOR PG**

To
CPM
DFCCIL, Ajmer

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

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

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

ANNEXURE-XVII

(Para 16.2.7.4 (c) of General Instructions &

Clause No. 17.14.3 (a) of Annex.I Part-I of GCC APRIL-2022, with up to date correction slip)

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

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

.....

(Address of the company).

RESOLVED THAT (Name of the company) have decided
to participate for the said tender for the work of

..... (Name of the work) in joint venture with
M/s..... (Name of the other Firm/Firms or company/companies with addresses) in
name and style of the JV firm..... (Name of the Joint
Venture firm).

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

Signed by Managing Director/

Director/ Company Secretary
Of the Company Note:-

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

Annexure-XVIII

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

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

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

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

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

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

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

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

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

(Signature of Sri.....)

Executants Partner
(Name & signature)

DATE

1.....

2.....

Place

3.....

4.....

Seal of Firm

Seal of Firm

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

ANNEXURE-XIX

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

(ON THE LETTER HEAD OF CHARTERED ACCOUNTANT)

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

To

CPM

DFCCIL, Ajmer.

Sub: -Construction works executed and payment received

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

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

Yours sincerely,

Date: ...

(Name & Sign. Of Authorized Signatory)

Seal of firm

Registration No:-

E-Mail:-

Note :

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

Annexure –XX

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

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

KNOW ALL MEN BY THESE PRESENTS: WHEREAS M/S
 (Name of LLP & LLPIN number) is a LLP Firm registered
 under the LLP Act, 2008, and having its registered office
 at..... (hereinafter called the 'LLP').

AND WHEREAS by its resolution No..... passed in the meeting held on..... of the
 Partners of the LLP (LLP name) have decided to participate in the tender
 No. invited by DFCCIL for the work namely
 “”

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

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

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

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

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

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

Signatures of authorized representative & Seal
 of LLP: authorized representative

Signature Name:

Address:

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

(1)Name Signature.....

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

Executed and Signed before me on this.....day of

At(place).

(Seal and signature of Notary Public)

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

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

Annexure -XXI

Clause No. 16.2.5(c) of General Instructions &

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

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

EXTRACT OF THE RESOLUTION PASSED AT THE MEETING OF THE PARTNERS

OF _____ (LLP Name) having LLPIN _____ of 20.....

(Hereinafter referred to as LLP) HELD ON (Date) _____ AT (Address)

_____ Whereas the Board has been described about NIT

No. _____ issued by DFCCIL for the work

name" _____".

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

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

Resolved further that the LLP/Partners authorize(s), Mr./ Ms. _____ & Mr./ Ms.

_____ (name and designation) of the LLP, to jointly or severally sign and submit

all the necessary papers, letters, forms, quotes, bids etc., negotiate, discuss, agree to make any

amendments, alterations or modifications thereto and to make representations, submit papers, affidavits

and to do any other act and complete requisite formalities on behalf of the LLP in connection with

completion of aforesaid tender work and to enter into liability against the LLP.

Resolved further that LLP/Partners authorize(s) Mr./Ms. _____ (Name and

Designation) of the LLP to execute Power of Attorney in terms of this resolution in favour of

Mr./Ms. _____ & Mr./Ms. _____ the person(s) above

named.

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

the LLP.

For the Organization,

(Seal of LLP & Signature of authorized person)

Name of authorized person: _____

Designation: _____

Place:

Dated:

Executed and Signed before me on this.....day of At

.....(place).

(Seal and signature of Notary Public)

Note:-

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

Annexure –XXII

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

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

KNOW ALL MEN BY THESE PRESENTS: WHEREAS M/S

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

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

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

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

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

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

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

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

Signature Name:

Signatures of authorized representative

Address:

& Seal of **Registered Society /
Registered Trust**

Name of authorized Executants): rep
Designation:

Signature Name: Address:

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

(1)Name Signature.....

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

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

(Seal and signature of Notary Public)

Notes:-

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

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

Annexure-XXIII

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Signature of the tenderer.....

Name.....

Annexure-XXIV

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

EXTRACT OF THE RESOLUTION PASSED AT THE MEETING OF THE PARTNERS

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

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

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

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

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

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

For the Organization,

(Seal of LLP & Signature of authorized person)

Name of authorized person: _____ Designation: _____
 _____ Place:

Dated:

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

(Seal and signature of Notary Public)

Annexure : XXV

Clause No. 16.2.5(d) of General Instructions

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

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

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

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

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

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

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

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

WITNESSES:

Signature Name:
Address:

Signatures of authorized representative
& Seal of LLP:

Name of authorized representative:
Designation:

Signature Name: Address:

Specimen Signatures of Attorney Holder in token of acceptance:

(1)NameSignature.....

(2)NameSignature.....

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

(Seal and signature of Notary Public)

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

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

ANNEXURE-XXVI

(Para 16.2.7.6 (c) of General Instructions)

SPECIMEN RESOLUTION OF EXECUTIVE COMMITTEE OF REGISTERED SOCIETY/TRUST

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

FOR ENTERING INTO JV WITH OTHER ENTITIES

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

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

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

Name and Signed by authorized

Executants/s of Registered Society/Trust

Note:-

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

Annexure-XXVII

(Para 16.2.7.6 (c) of General Instructions)

SPECIAL POWER OF ATTORNEY**(To be submitted by Registered Society/Trust participating as member of JV) BE**

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

“T.No.....Name of work.....”

.....”

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

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

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

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

(Sign& Seal) Place...

Date:-.....

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

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

ANNEXURE- XXVIII**DFCCIL CONTRACT AGREEMENT OF WORKS
(charged to EBR(IF) CONTRACT****AGREEMENT NO. -----DATED-----**

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

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

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

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

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

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

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

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

For and on behalf of the President of India

Witness of the Signature

- 1.
- 2.

Address :-----

Signature of Contractor

Name of Authorized Signatory

Witnesses of the Signature

1.....

2.....

Address:.....

For and on behalf of the
Indian Railway Finance Corporation

Witness of the Signature

1.

2.

Address:-----

ANNEXURE-XXIX

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

CERTIFICATE

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

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

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

1. That I, who is submitting the tender on behalf of the **HUF** is in the position of **Karta** of the HUF, working in the name & style of (Indicate Name – HUF) at
2. That, I.....(Indicate Name of Karta) has the authority, power and consent given by other members to act on behalf of(name of HUF)

Deponent

Signature and Seal

VERIFICATION

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

Deponent

Signature and Seal

Place:-

Date:-

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

Annexure XXX

(Para 16.2.2 (b) of General Instructions)

(Clause 14 (ii) (b) and clause 15 of the GCC APRIL-2022)

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

BE IT KNOWN to all that we (1) (2).....
 (3).....(4).....(5)..... all the members of the
 HUF..... having its registered office at do hereby, for and on
 behalf of the said firm appoint Shri..... (Name & designation) Special Attorney of the
 said HUF and authorize the said Shri..... (name), whose specimen signature are
 appended below, to do all or any of the following acts deeds and/or things on behalf of the said firm and to
 represent the firm in respect for the tender

No..... (Name of work)..... invited by DFCCIL.

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

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

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

DATE

1.....

2.....

Place

3.....

4.....

Seal of Firm

Seal of Firm

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

(Not required if tender documents are uploaded by Karta himself).

Annexure XXXI

((Para 16.2.3 (c) of General Instructions)

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

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

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

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

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

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

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

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

Declaration by the Tenderer:-

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

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

Notes-

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

Annexure XXXII

(Para 16.2.3 (d) of General Instructions)

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

DECLARATION BY AN EXISTING PARTNERSHIP FIRM/ LLP FIRM**(Mandatory if tenderer is an Existing Partnership Firm/ LLP Firm)**

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

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

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

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

OR

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

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

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

AND / OR

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

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

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

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

- (1) Details of previous Propriety firm / Partnership Firm/ LLP firm as per annexure I.
- (2) A copy of previous partnership Firm (Notarized or duly registered with the Registrar) (3) Affidavit as per proforma given of Annexure –IX for previous Propriety firm (duly executed on stamp paper and notarized).
- (4) Copy of previous LLP agreement and certificate of incorporation.
- (5) Dissolution deed/ splitting deed of the previous partnership deed or LLP agreement (in case of dissolution of previous partnership firm/ LLP firm)
- (6) Proof of surrender of previous PAN no (in case of dissolution of previous partnership firm, LLP firm or propriety firm)
- (7) Documents for the technical, financial criteria, bid capacity as claimed w.r.t. such partner(s) joining the new/ existing partnership firm, as per para16.1 (c), (d), (f),(g), (k) above.

Declaration by the Tenderer :-

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

Name and Signature of Tenderer
Alongwith
seal.

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

Annexure XXXIII

(Para 16.2.4 (e) of General Instructions)

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

DECLARATION REGARDING CONSTITUTION OF EXISTING/ NEW COMPANY**(Mandatory if tenderer is an Existing / New Company)**

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

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

1.1 That, we are an existing Company working in the name and style of M
Registration No....., PAN/TAN No..... There has been no change in the
constitution of our Company during last 07 (seven) years ending last day of the month previous to the one
in which tender is invited.

OR

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

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

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

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

Declaration by the Tenderer :-

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

Name and Signature of Tenderer

alongwith seal.

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

Annexure XXXIV

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

DFCCIL**CONTRACT AGREEMENT OF SECONDARY COMPONENT OF THE WORKS****CONTRACT AGREEMENT NO. -----DATED-----**

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

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

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

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

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

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

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

The responsibility of successful completion of work by subcontractor shall lie with Contractor. Subcontracting will in no way relieve the Contractor to execute the work as per terms of the Contract

Further, in case Engineer is of the view that subcontractor's performance is not satisfactory, he may instruct the Contractor to remove the subcontractor from the work and Contractor has to comply with the above instructions with due promptness. Contractor shall intimate the actual date of discontinuation of subcontract to Engineer. Once having entered into above arrangement, Contractor shall discontinue such arrangement, if he intends to do so at his own or on the instructions of DFCCIL, with prior intimation to CPM/CGM.

For and on behalf of the Contractor

Name of Authorized Signatory

Witness of the Signature

1.

2.

Address :-----

Signature of Sub Contractor

Name of Authorized Signatory

Witnesses of the Signature

1.....

2.....

Address:.....

(Seal and signature of Notary Public)

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

END OF DOCUMENT