



डेडीकेटेड फ्रेट कोरीडोर

Dedicated Freight Corridor Corporation of India Limited
(A Govt. Of India Undertaking)

5th Floor, Pragati Maidan Metro Station Building Complex, New Delhi - 110 001

No. HQ/IT/App. Schedules of Maintenance

Date: 04.10.2019

To

Sub: Implementation of Electrical Maintenance Management Module for Traction Installation (PSI & OHE) and Geo Tagging of Assets.

Dear Sir / Madam,

Please arrange to submit quotation online using the link www.tenderwizard.com/DFCCIL on or before **15:00 Hrs. of 14.10.2019** for the subject item. The Quotation shall be opened online on www.tenderwizard.com/DFCCIL at **15:30 Hrs. on 14.10.2019** at the Dedicated Freight Corridor Corporation of India Limited (DFCCIL), 5th Floor, Pragati Maidan, Metro Station Building Complex, New Delhi-110001.

- 1.0 Instruction to Agencies for online Quotations:
 - 1.1 The Quotation to be submitted online on www.tenderwizard.com/DFCCIL on or before **15:00 Hrs. of 14.10.2019**. The Quotation will be opened online at **15:30 Hrs. on 14.10.2019** www.tenderwizard.com/DFCCIL.
 - 1.2 Quotation shall be submitted through online mode only at www.tenderwizard.com/DFCCIL. Quotation submitted by any other mode will not be accepted.
 - 1.3 It is mandatory for all Agencies to have Class-III Digital Signature Certificate (in the name of person who will submit the online quotation from any of the licensed Certifying Agencies ('CA') [Tender can see the list of licensed CAs from the link www.cca.gov.in] to participate in e-quotation of DFCCIL).
 - 1.4 To participate in e-quotation, it is mandatory for Agencies(s) to get themselves registered with the Tender wizard (www.tenderwizard.com/DFCCIL) and to have user ID and password. Agencies have to pay Annual Registration charges of Rs.2000/- + GST to M/s ITIL through e-payment. Tenderers have to pay Tender-Processing Fee (Non Refundable) @ 0.1% of Estimated Cost + GST subject to minimum of

Rs. 750/- + GST to M/s ITIL through e-payment. Already Registered Agencies at www.tenderwizard.com/DFCCIL need not pay registration charges to M/s ITIL.

1.5 www.tenderwizard.com/DFCCIL is the only website for submission of quotation. 'Vender Manual' containing the detailed guidelines for E-Tendering available on www.tenderwizard.com/DFCCIL.

1.6 Modification / Substitution / Withdrawal of Quotation:

1.6.1 Agencies(s) may modify, substitute or withdraw their quotation after submission prior to **15:00 Hrs. of 14.10.2019** (last Date & Time for Quotation Submission termed as Quotation Closing Date & Time). No Bid shall be modified, substituted or withdrawn by Agencies after Quotation Closing Date & Time.

1.6.2 For modification of financial offer, Agency has to detach its previous offer from www.tenderwizard.com/DFCCIL and then upload digitally signed modified offer.

1.6.3 For withdrawal of quotation, Agency has to click on withdrawal icon at www.tenderwizard.com/DFCCIL.

Before withdrawal, it may specifically be noted that after withdrawal of quotation, for any reason, Agency cannot resubmit their quotation again.

1.7 Signing of Quotation:

1.7.1 This Quotation being E-Quotation, the Digital Signature obtained from Approved Controller of Certifying Authorities (CCA) shall only be considered as authentic for submission of quotation.

1.7.2 For submitting the Quotation, the Authorized Signatory shall be the Digital Signatory. In case, the Authorized Signatory and Digital Signatory are not the same, the bid shall be considered non-responsive and will be rejected.

1.8 Deadline for Submission of Quotation:

Agencies must ensure to complete the Quotation submission process I time as www.tenderwizard.com/DFCCIL will stop accepting any online quotation after Quotation Closing Date & Time.

1.9 Help-Desk for E-Quotation:

For Any Clarification, Help and Registration for E – Tendering/Quotation and for obtaining Digital Signature, Contact at www.tenderwizard.com/DFCCIL and on Telephone No. 011-49424365 or Mobile No. 9599653865.

1.10 Availability of Quotation Documents:

a) Quotation Document can be downloaded from www.tenderwizard.com/DFCCIL . Agency who wishes to view quotation Document can visit www.tenderwizard.com/DFCCIL .

b) DFCCIL may issue Corrigendum to the Quotation Document which shall be placed on website www.tenderwizard.com/DFCCIL only and at least 2 days in advance of date fixed for Opening of Quotations.

- 1.11 The Agencies shall keep their offers open for a minimum period of 120 days from the date of opening of Quotations. The Agency cannot withdraw their offer within the period of Validity.
- 1.12 The complete quotation document including corrigendum digitally signed would be uploaded at www.tenderwizard.com/DFCCIL in 'Document Library'.
- 1.13 Financial Bid (Excel File) is to be downloaded from website www.tenderwizard.com/DFCCIL and then is to be filled, saved and uploaded (through Digital Signature) on the same website.
- 2.0 Terms and Conditions:
- 2.1 Period of Completion:
Period of completion shall be 6 months for development / certification / audit and 6 months for support & maintenance from the date of issue of Acceptance.
- 2.2 Delivery:
Delivery is required at the DFCCIL, Corporate Office, Pragati Maidan Metro Station Building Complex, New Delhi - 110001.
- 2.3 Terms of Payment:
- i. No advance payment shall be made.
 - ii. Payment will be made as per Payment Terms as detailed in the Development and Rollout of Website and Audit (Annexure-A).
 - iii. Invoices should be submitted in duplicate, duly signed and stamped by the Contractor.
 - iv. Payment to the Contractor shall be made through Electronic Clearing System (ECS). The Contractor shall submit complete bank details/ NEFT mandate Form issued by their bank.
 - v. Tax Deducted at Source (TDS) will be deducted from the payment due to the Contractor as per rules of the state / Central government if applicable.
- 2.4 Acceptance:
As per condition of deliverables at DFCCIL.
- 2.5 Paying Authority:
DFCCIL's Finance Department as represented through GGM/Finance is the paying authority.
- 2.6 Variation:
Variation will be the done, if required and approved by DFCCIL.
- 2.7 GST Registration:
Agency shall be registered under GST Act and shall furnish GST Registration Number along-with the Quotation. Agency shall furnish GST registration Number on the invoices while submitting for payment.
- 2.8 Security Deposit:
The Contractor has to submit a Performance Bank Guarantee (PBG) equal to 5% of total Accepted Cost as per the letter of acceptance for maintenance

period within 15 days from the date of Issue of Letter of Acceptance. The PBG may be deposited in the form of a Demand Draft / Banker's Cheque issued by any Nationalized / Scheduled Bank in favor of 'Dedicated Freight Corridor Corporation of India Ltd.', New Delhi, payable at New Delhi. The PBG shall be refunded without interest, after 60 days of the completion of support period.

2.9 Maintenance and Support:

Support and maintenance of the delivered Application is for a period of 6 months from the date of Go-Live of Web Application. During this period, any defect due to implementation shall be attended free of cost by the supplier. The Supplier shall correct and debug all defect free of cost within a period of 1 week.

2.10 The Application strictly in accordance with the IT / Cyber Acts of India.

2.11 Rates quoted shall be all inclusive of Labor, Material and Cartage etc. but excluding GST. GST shall be paid as per applicability. As per GST Act, Anti Profiteering Measures shall be taken. Successful Agency shall pass Input Tax Credit to DFCCIL & shall give Declaration within 3 days from the date of issue of Letter of Acceptance in the Format as per Annexure-D.

2.12 DFCCIL reserves the right to modify, expand, restrict, scrap and re-invite the quotations without assigning any reason.

2.13 Public Procurement Policy for Micro and Small Enterprises (MSEs) is being followed. Participating MSE shall enclose with their offers the proof of their being MSE registered with any of the agencies mentioned in the notification of Ministry of MSME i.e. anybody specified by ministry of MSME. The MSEs must also indicate the terminal validity date of their registration. MSEs owned by Scheduled Castes or Scheduled Tribes (SC/ST) Entrepreneurs may be indicated and proof of same may be enclosed.

2.14 Resolution of Disputes and Arbitration:

In the event of any dispute or difference whatsoever arising under this contract or in connection therewith including any dispute relating to existing meaning and interpretation of this contract, shall be settled amicably through mutual negotiation by the parties. In case, there is no amicable settlement of disputes, the same shall be referred to the sole arbitrator as appointed by DFCCIL. The Arbitration and Conciliation Act 1996. Notwithstanding any disputes between the parties, the Agency shall not be entitled to withhold delay or defer its obligation, under the contract, and the same shall be carried out in accordance with the terms and conditions of the contract.

2.15 Force Majeure:

- (a) For the purpose of this contract, "Force Majeure" means an event which is beyond the reasonable control of a party which makes agency's performance of its obligations under the contract impossible or so impractical as to be considered impossible under the circumstances.
- (b) The failure of a party to fulfill any of its obligation under the contract shall

not be considered to be a breach of, or default under this contract in so far as such inability arises from an event of Force Majeure, provided that the party affected by such an event(s) has taken all reasonable precautions, due care and reasonable alternative measures in order to carry out the terms and condition of this contract and has informed the other party as soon as possible about the occurrence of Force Majeure condition.

- 3.0 **Eligibility Criteria:** The documentary evidence is to be produced duly certified digitally signed by authorized signatory of the Bidder, if the documentary proof is not enclosed for any criteria, the bid may be liable for rejection.

The Bidder shall meet the following criteria for eligibility:

General Requirement from Successful Bidder for development of Website:

- 3.1 The Bidder should be a profit-making organization in each of the last three Financial Years.
- 3.2 The Bidder should be ISO 9001:2008 certified company.
- 3.3 The Bidder should be registered under GST Act.
- 3.4 The Bidder should submit scan copy of PAN Card.
- 3.5 The Bidder should have successfully completed at-least one similar work costing not less than Rs. 20 Lakhs in last three years {i.e. current year and previous year three financial years} for any Government Department / PSU / Private Corporates / Private Limited Firms (date of start of work may not fall in this period).
- 3.6 The Bidder should have received payment against satisfactory execution of completed and ongoing works of all types during last three financial years i.e. current year and preceding 03 year as per current ITCC / Audited balance sheet of not less than Rs. 50 Lakhs.

- 4.0 **Technical Requirement from Successful Bidder for development of Website:**

- 4.1 Understanding the requirement, architecture design, UX design, and development & testing.
- 4.2 Develop a tightly integrated Web Portal.
- 4.3 To provide standard MIS reports based on the data aggregated at various levels in the projects progress module.
- 4.4 Testing, defect fixing effort on bugs reported before Deployment of web-based portal.
- 4.5 Training of users at corporate office limiting to 1-3 days of effort for training.
- 4.6 6 months of support from the date of successful deployment or any issue reported, defect analysis, response and related issues.
- 4.7 Bug fixing support for any issue reported, defect analysis, response and resolution for 6 months from the date of successful deployment.

- 4.8 Web Application should be able to accommodate the future scalability requirements.
- 4.9 Suitable measures to be incorporated for anti-virus protection of these devices as well as servers.
- 4.10 A database of the Master Data related to all TSS, SP, SSP, ATS and OHE locations shall be created in the server in the required format with suitable backup and safety features to prevent loss of data.
- 4.11 All Master Data / reference parameters shall be provided by DFCCIL.
- 4.12 J-query to be used in the site to make the site lighter, hence faster.
- 4.13 To make Web Application accessible on all platforms.
- 4.14 To provide information to users with minimum number of clicks. To get security certificate from certified vendor.

Encl.:

- a) Terms of Payment (Annexure-A).
- b) Schedule of Deliverable and Price Quote (Annexure-B).
- c) Terms of Reference (TOR) (Annexure-C).
- d) Declaration for DFCCIL (Annexure-D).
- e) List of Broad Classification of Inspections (Annexure-E)
- f) List of Major Equipment of PSI (Annexure-F)
- g) List of Major equipment of OHE (Annexure-G)

GGM/IT
DFCCIL
Contact - 01123454921

Annexure-A**Payment Terms for Development and Rollout of Website and Audit**

Stage	Item Particulars	Timelines (in Weeks) where T = date of award	Payment percentage of the value at item (1) in Annexure-B
1	Screen Design & Finalization of SRS	T+4	-
2	Finalization of UX & Functionality Design	T+4	10.00%
3	Development & Testing of beta version of the Applications	T+12	20.00%
4	UAT of the Web Portal	T+15	20.00%
5	Go-Live of Web Application & Audit Certification	T+17	20.00%
6.	Maintenance Charges during 6 months of successful Deployment	6 months from Go-Live of Web Application	30.00%
Note: Maintenance Charges will be payable quarterly in equal instalment.			

**Schedule of Deliverable and Price Quote
Electric maintenance and geo tagging**

SN	Item	Price Quote excluding GST (Rs.)	Remarks
1	(a) Designing, Development and Rollout of Electric Maintenance Management Module. (b) Capturing and uploading of Geo reference coordinates of the Asset Module. (c) Maintenance (for 6 months) of Electric Management Module and Geo Tagging Module		
	Total of Price Quote =		
Total Cost excluding GST (In Words) _____			

NOTE:

1. Agency is required to quote their rates online in the given format of Excel Sheet on website www.tenderwizard.com/DFCCIL in terms **of the total cost excluding of GST**. Only rates quoted online shall be considered for Evaluation.
2. GST as applicable will be paid extra.

Terms of Reference (TOR)

(a) TOR for Web Based Application - DFCCIL

Introduction: The **Dedicated Freight Corridor Corporation of India Limited (DFCCIL)**, a Government of India (Ministry of Railways) Enterprise has been formed to undertake Planning & development, mobilization of financial resources and construction, Maintenance and operation of the Dedicated Freight Corridors.

At present, work is in Progress on 2 corridors: **the Eastern Corridors**, covering a length of 1856 Kms starting from Dankuni in West Bengal will pass through the states of Jharkhand, Bihar, Uttar Pradesh and Haryana to Terminate at Ludhiana in Punjab. **The Western Corridor** covering a length of 1504 kms connecting Dadri in Uttar Pradesh to Mumbai-Jawaharlal Nehru Port (JNPT), will traverse through NCR and the states of Haryana, Rajasthan, Gujarat and Maharashtra.

It is planned to develop a web-based application for monitoring of Electric Maintenance and uploading of Asset Mapping data with Geo Reference coordinates (data will be provided by DFCCIL) along with a **Dashboard** and identify key issues pending at various levels.

The information gathered will help keep track of the progress through different means and help towards resolving the issues in consultation with various stake holders.

Development & hosting environment Front-end Web Based application shall be designed and developed in a visually rich and appealing format.

General Information about the Corridors:

The Eastern & Western Corridors are divided into various phases which are further divided into various sections and sub-sections. There are seven Chief General Managers (CGMs) in each Corridor who are in-charge of the assigned sections. Details of the section and CGMs are as follows:

The successful Bidder will be required to understand the details of the sections and CGM units to enable development of suitable software for input of the data as well as viewing of the data in different formats.

(b) Scope of Work for Development of Electric Management Web Application

The scope of work is to develop a web application to monitor the progress of Electric Maintenance with a dashboard and readily available customized reports and the provision for DFCCIL Contractors to upload the asset mapping data with Geo Reference Coordinates.

Development of below mention Modules:

1. Section Master

Admin should have the option to create different sections, sub sections to the unit level as per hierarchy of DFCCIL.

The Master Data should be created based on the jurisdiction of each Section/ Zone (Eastern/ Western). The authority to add/ delete/ modify the Master Data shall with respective stakeholders.

2. User Master

- a) Creation of User Master by capturing user details like Mobile number, Name, Designation, Type of Employee. The data will be entered by User and approved by Nodal Officer.
- b) The software will be role based access and Admin will have the authority to provide specific access to each group of users.
- c) Also, Admin to have provision to transfer a user from one section to another or to the mark retired against any User, who left the Organization.
- d) The web application should be accessible as per the rights given to different levels in Field/ OCC/ CO only.
- e) Role Based access to Enter/ Modify/ View the data.

3. Assets Management

System to have provision to maintain assets. Provision to update the current asset and changes if any. Asset Master shall be provided by DFCCIL however it may differ at section levels. Officer should have provision to create new asset section-wise so as to keep track of the same. Also, website should have provision of updating asset along with Geo-Tagging.

The list of equipment to be inspected under various categories is attached at Annexure-“F”.

4. Assigning Maintenance Schedule

- a) System should have provision to update the owner/s of Assets at all Sections. Admin to have provision to check the PO details along with user targets and achievements Section-wise.
- b) Standard formats for inspection need to be created in the system for feeding data after the field inspection/ maintenance by Staff. The Formats will be developed as per the schedule of maintenance for various equipment under OHE & PSI (Annexure “F”) and will be shared accordingly.
- c) It should be easy to select the option of desired equipment along with its schedule before starting the feeding of data during inspection of respective equipment

- d) During filling up inspection data, previous reading should be displayed along with the column for new entry.
- e) Maintenance activities related to OHE; PSI should appear with drop down features for sub activities.

5. Data Entry of Maintenance Activity

- a) System should be able to capture the details of user who has updated any record/ data along with the time stamp in order to have authentic data. Also, an audit trail should be maintained to check the history of work and track the progress.
- b) The broad classification of inspection (Annexure "E"). It should be possible to add new fields in the future as per requirements from time to time.
- c) The Field data entered by the staff should be saved on the server and used for generation of reports etc.
- d) If any abnormalities need to be allowed, there should be an option check (abnormal allowed) and it should be verified/ approved by higher authorities and the notification to the concerned should appear regularly till the issue is resolved.
- e) There should be feature to upload the photo / document of equipment.
- f) Users can add an issue or upload data/ information/ picture as deemed fit and then the user can view the task on his dashboard.
- g) Images uploaded during the data entry of the user can be downloaded for the reference.

6. MIS and Admin Module

- a) Web Portal should be capable of online data collection and generation of various reports.
- b) Admin should have MIS access. MIS should be able to generate real time reports or date wise reports as per applied filters/ Graphs/ Dashboard etc.
- c) The Module should be user friendly in terms of human interface done with following features:
 - i) Query based report generation.
 - ii) Addition / Deletion / Updating of Data/ Records
 - iii) Notification for maintenance Schedule/ Overdue Schedule through System.
 - iv) Creation of Master Data for each equipment as per Annexure-F Identification/ tagging of each switching station along with different sections.
- d) The Reports can be, but not limited to following type:
 - i. Overdue inspection, on date.
 - ii. Inspection carried out during week, month, year etc.
 - iii. List of abnormalities notices during various inspections equipment wise, section- wise, make-wise, Inspection-wise etc.
 - iv. Breakdown details.

- e) The System shall provide Dashboard to DFCCIL Top Management to view performance at regional / all India level pertaining to their area of responsibilities or complete view as per DFCCIL Workflow. The dashboard (in graphical form) of DFCCIL should contain reports Such as pie charts and bar graph for kilometers of track laid, pending, not started, under progress, week-wise overall progress, state-wise progress.
 - f) There should be notification feature to remind the next due schedule two days advance in the module
 - g) The system should provide fixed format reports, dynamic reports; data export facilities as per the selection criteria in pdf and excel formats.
7. System should have provision to handle exception, generate exception reports, SMS alerts at various predefined levels or manual SMS alerts in case of urgent issues and data analysis.

(c) Scope of Work for Development of Geo-Tagging Module

System should be able to capture geo-coordinates and same to be mapped to Maps.

The provider should be able to upload data/ documents/ photographs with Geo-coordinates. It is the responsibility of vendor to display the same on maps thus enabling DFCCIL to find a wide variety of location-specific information on map. Data of assets will be provided by DFCCIL with geo-coordinates.

Maps should have layers (Electric Layer).

Technical features

1. Real time display of information to be displayed on real time basis as and when added by users. Progress to be shown in different graphic and user-friendly formats based on user requirement.
 - a. Scheduled and Actual/Anticipated Completion dates
 - b. Highlights and Achievements scroll on top
 - c. Picture gallery – Facility to input Picture at field level directly by authorized personnel
 - d. Integration of Analytics for progress and different parameters monitoring.

General requirements:

- a) The database shall be managed through Web Service, which is the safest way to control the data. Any requirement related to change in database will routed through the web service.
- b) Application Admin, should be easy in terms of identify user experience and actions.
- c) Network level Security, Traffic to be encrypted using secured connectivity, if any.

- d) Functional Requirement Documentation, Web Application Design Documentation, installation guide, Administration guide and User Operation document to be provided.
- e) Identification of Web Application limitations.
- f) Identify risk, if any, post Application implementation along with mitigation plan.
- g) Detail of disk space and memory required for the proposed Application.
- h) List out the assumptions related to load & infrastructure (such as internet bandwidth etc. so that response time is always minimum).
- i) Performance Testing, security Testing & Usability testing certification from certified vendor.
- j) Overall integration, user acceptance testing & Go-Live.
- k) Feature for update application with permission to download.
- l) One time download no running cost for user.
- m) Handover, guidance and training to DFCCIL staff to make design changes, to update content and to maintain the proposed solution.

Dynamic Content Management System (CMS):

CMS should have the following features:

- a) Dynamic menus: menus and submenus should be created based on the page tree as page are added and subtracted. These should be styled entirely through CSS and stored in database.
- b) Audit Trail: Administrator should have access to one log in the backend or individual logs of each page where user can view from which ever place with Daily Reports.
- c) User Privileges: An administrator can grant as little or as much control to content editors or groups as needed to other controlling accounts to the Application which means if a user has can modify only reports section. All other sections should appear disabled to that User.
- d) CSS Styled Content: all aspects of the core functionality should be styled on the Web Apps. Most extensions should be styled through CSS.
- e) Minimal Training Required: Editing content should be as easy as editing the Microsoft word.
- f) Each element on the Web Application can be modified easily.

Other Miscellaneous Requirements:

- a) Onsite training: Onsite training to DFCCIL Staff at Corporate Office on overall workflow of the developed solution and backend administrative functions at DFCCIL Office.
- b) Six months technical support: Vendor should provide Six Months technical support via email; phone and remote login to address analyze and fix any technical glitches within the existing features within 24 working hours. The scope of technical support includes rectification of errors within the already developed solution.

Technical Support:

Vendor should provide six months technical support via email: phone and remote login to address analyze and fix any technical glitches within the existing features within 24 working hours. The scope of technical support includes rectification of errors within the already developed solution.

Maintenance: Vendor shall provide maintenance of Web Application Including updates and maintenance for a period of six months from the date of successful deployment. The Update / maintenance in the source code of the Web Application should also include quality assurance (as per Govt. of India guidelines) i.e. Web Apps should be hosted after extensive testing and Apps must be 100% bug free.

Security Audit: Security Auditing, security clearance certificate should be obtained during hosting of Website. Security clearance certificate should be provided from certified auditor to address this requirement. Obtainment of STQC Certificate for certifying the website.

Facilities/ Support provided by Organization (DFCCIL):

- a) DFCCIL will provide the space for website on cloud with proper software Licenses.
- b) Payments to 3rd Party SMS gateway will be done by DFCCIL. However, the integration of SMS gateway with website is the responsibility of Vendor.
- c) DFCCIL will provide the all the Map services for Geo-Tagging Coordinates required to capture and display the same on Map.
- d) The Development phase of Website will include onsite and offsite development. DFCCIL will not provide any Hardware support for offside activities, however for onsite activity DFCCIL will provide necessary Computer, testing server and working space to the personnel placed at DFCCIL.

Important Consideration:

1. To design & develop the website with an aesthetic look feel, visually rich and appealing in design.
The few key functionalities of the application will be: -
 - a. Tight Integration with phone features, likes location services, texting module etc.

- b. Integration with map application.
 - c. Online mode with data and image store,
 - d. Customize form for daily activity logging,
 - e. Friendly & intuitive User Interface,
 - f. Tight Integration with the web-based application/web portal.
 - g. The Web application can have a dashboard screen with auto-scrolling news on top. The administrator can flash the news to all/ regional/ selected Users.
 - h. The Web application will have the ability to display the detailed graphical reports.
 - i. The system shall be scalable to handle concurrent traffic and detail analytics reports.
2. The vendor shall ensure that seamless integration of web portal with cloud where the system hosted. The user should get ubiquitous experience irrespective they are using web portal.
 3. To integrate an easy to use web portal to get security certificate from certified vendor.
 4. To provision for user work progress and reviews mechanism. This shall help user department in collecting work progress from users. This would involve development of an online form for collecting feedback
 5. Web Application should able to accommodate the future scalability requirements. Web Application should be responsive in nature i.e. browser independent and platform independent.
 6. Admin should be easy in term of usability and changes in design & content.
 7. Web Application should have visual elements that is scalable and expandable and W3 complaint.
 8. Performance Testing Security & Usability Testing If required by IT Acts Will Be Provided through certification from certified vendor.
 9. Overall Integration, user acceptance testing & Go-live.
 10. Feature for update application with permission to download.
 11. One-time download. No running cost for User.
 12. Handover guidance and training to DFCCIL Staff to make design changes, to update content and to maintain the proposed solution.

Declaration for DFCCIL

This is to confirm that I, _____(name of concerned person of vendor), _____ (designation of this person) at _____ (name of the agency), have passed the benefit of input tax credit available on the _____ (goods / services) having HSN _____ supplied to the Dedicated Freight Corridor Corporation of India Limited after introduction of Goods and Services Tax.

Further, it is to confirm also that in case _____ (name of the agency) will receive any further benefit in future after _____, 2019 by way of availing input tax credits which were not allowed to be availed before _____, 2019 or reduction in tax rates or in any other manner which results in reduction of cost of the _____ Goods / Services supplied to the Dedicated Freight Corridor Corporation of India Limited, than we will pass that benefit to the Dedicated Freight Corridor Corporation of India Limited also.

Signature of the Contractor _____

Name of the Contractor _____

Designation _____

Name of the Agency _____

Broad Classification of Inspections

i.	Foot Patrolling	Fortnightly Inspection
ii.	Fortnightly Inspection	Monthly Inspection
iii.	Quarterly Inspection	Quarterly Inspection
iv.	Half yearly Inspection	Half yearly
v.	Yearly (Annual) Inspection	Yearly (Annual) Inspection
vi.	Eighteen Month Inspection	Three yearly Inspection
vii.	Four & Half yearly Inspection	Five yearly Inspection
viii.	Current collection Test	Six yearly Inspection
ix.	Breakdown Maintenance	Breakdown Maintenance
x.	Condition Monitoring	Condition Monitoring

PSI

The list of major equipment of PSI, but not limited to details as given below:

1. 220/ 55 kV 60 / 84 / 120 MVA Scott Transformer.
2. 12.3 MVA Auto Transformer.
3. 132 kV, 1600 A Triple pole SF-6 Circuit Breaker.
4. 132 kV, 1250 A Triple pole Isolator with Earthing Blade Assembly (Motorized)
5. 132 kV, 1250 A Triple pole Isolator without Earthing Blade Assembly (Motorized)
6. 132 kV, 600-300 /5 A Current Transformer
7. 132 kV, 600-300 /1 A Current Transformer
8. 132 kV, 110V, 30 V A Potential Transformer
9. 120 kV Lightning Arrester
10. 132 kV Insulator for Isolator
11. 132 kV Post Insulator with fittings and fasteners
12. 66 kV, 2000 A Double Pole Circuit Breaker
13. 66 kV, 2050 A Double Pole Circuit Breaker(Motorized)
14. 66 kV Lightning Arrester
15. 66 kV, 1500-750 /5 A Current Transformer
16. 66 kV Insulator for Isolator
17. 66 kV Post Insulator
18. 66 kV Suspension insulator
19. 25 kV, 2000 A Double Pole Vacuum Intereptors (VCB in place of VI)
20. 25 kV, 2000 A Circuit Breaker used before Ats
21. 25 kV, 1250 A Double Pole Isolators includes operating rod insulators with Earthing Blade Assembly (Motorized)
22. 42 kV Lightning Arresters
23. 27.5 kV /110 V, 100 VA - Potential Transformer Accuracy : 3P /1.0 3P for Protection and 1.0 for Metering
24. 27.5 kV / 240V, 100 kV A LT Supply Transformer with dropout fuse
25. 25 kV Insulator for Isolator (2 x 25 kV DPI)
26. 25 kV Post Insulator
27. 25 kV Suspension Insulator
28. Control & Relay Panel (Sets)
29. Battery Set
30. Battery Charger
31. Earthing Pit.

OHE

The list of major equipment of OHE, but not limited to details as given below.

1. Contact Wire.
2. Catenary Wire.
3. Cantilever
4. Auto Tensioning Device (ATD)
5. Neutral Section
6. Section Insulator.
7. 9 Ton Insulator.
8. Earthing Bond.
9. Arial Earth Conductor.
10. Buried Earth Conductor.
11. Feeder Wire.
12. Mast / Upright.
13. Portal Boom.
14. Current Carrying Dropper
15. Jumpers.
16. Cross Arm Gentry.
17. 27.5 kV / 240 V 10 kVA, 25 kVA, 50 kVA Auxiliary Transformer.
18. Isolators.
19. Rail Earthling Clamp
20. Earthling Pit.