



PREQUALIFICATION DOCUMENT FOR

Design and Construction of Formation in Embankments/Cuttings including blanketing, Viaducts, Rail Flyover, Bridges (Major, Minor & RUBs), Supply and Spreading of Ballast and other related infrastructural works for double track electrified railway line on Design Build Lump Sum Basis from Howrah end approach of DFC Sone bridge to Chirailpathu station of IR towards Howrah & to New Sonnagar station towards Garhwa and at Dehri-on-Sone yard from Km. 3.16 to Km. 5.38 in connection with Eastern Dedicated Freight Corridor in the state of Bihar in India.

CIVIL & STRUCTURES WORKS CONTRACT PACKAGE

Issued on: 01.06.2015

Invitation for Prequalification(IFP) No. HQ/EN/EC/PQ/SEB-BCJ-CPBH

Employer:

**DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED
A GOVERNMENT OF INDIA ENTERPRISE**

under

MINISTRY OF RAILWAYS

COUNTRY: INDIA

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Section - I. Instructions to Applicants (ITA)

A. General

1. Scope of Application	1.1 In connection with the Invitation for Prequalification indicated in Section II, Prequalification Data Sheet (PDS), the Employer, as defined in the PDS , issues this Prequalification Document (PQD) to applicants interested in bidding for the works described in Section V, Project information and Scope of Works. Other details of the tender under National Competitive Bidding (NCB) are provided in the PDS .
2. Source of Funds	2.1 The required funds shall be arranged by the Employer.
3. Corrupt practices	<p>3.1 It is the Employer's policy that Applicants, suppliers, and contractors and their subcontractors, observe the highest standard of ethics during the procurement and execution of such contracts.¹ In pursuance of this policy, the Employer</p> <p>(a) defines, for the purposes of this provision, the terms set forth below as follows:</p> <p>(i) "corrupt practice" is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party² ;</p> <p>(ii) "fraudulent practice" is any act or omission, including a misrepresentation, that knowingly or recklessly misleads or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation³;</p> <p>(iii) "collusive practice" is an arrangement between two or more parties⁴ designed to achieve an improper purpose, including to influence improperly the actions of another party.</p> <p>(iv) "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party⁵ or the property of</p>

¹ In this context, any action taken by a Applicant, supplier, contractor, or a sub-contractor to influence the procurement process or contract execution for undue advantage is improper.

² "another party" refers to a public official acting in relation to the procurement process or contract execution. In this context, "public official" includes employees of other organizations taking or reviewing procurement decisions.

³ a "party" refers to a public official; the terms "benefit" and "obligation" relate to the procurement process or contract execution; and the "act or omission" is intended to influence the procurement process or contract execution.

⁴ "parties" refers to participants in the procurement process (including public officials) attempting to establish bid prices at artificial, non competitive levels.

⁵ a "party" refers to a participant in the procurement process or contract execution.

	<p>the party to influence improperly the actions of a party;</p> <p>(v) "obstructive practice" is</p> <p>(aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation;</p> <p style="text-align: center;">or</p> <p>(bb) acts intended to materially impede the exercise of the Employer's inspection and audit rights provided for under sub-clause 3.1 (d) below.</p> <p>(b) will reject a proposal for award if it determines that the Applicant recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question;</p> <p>(c) will sanction a firm or individual, at any time, including by publicly declaring such firm or individual ineligible, either indefinitely or for a stated period of time, Employer if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing.</p> <p>(d) will have the right to get the accounts , records and other documents relating to the bid submission and contract performance of the Applicants, suppliers, contractors and their sub-contractors audited by auditors appointed by the Employer.</p>
<p>4. Eligible Applicants</p>	<p>4.1 An Applicant shall be a private, public or government owned legal entity, or any combination of them in the form of Joint Venture (JV) with the formal intent, as evidenced by a letter of intent, to enter into an agreement or under an existing agreement. In the case of a JV, unless otherwise specified in the PDS,</p> <p>(i) all parties shall be jointly and severally liable, and</p> <p>(ii) the number of partners shall be as per PDS.</p>
	<p>4.2 The eligibility criteria listed in this Clause 4 shall apply to the Applicant, including the parties constituting the</p>

	<p>Applicant, i.e. its proposed partners, subcontractors for any part of the Contract including related services.</p>
	<p>4.3 An Applicant may have the nationality of any country. An Applicant shall be deemed to have the nationality of a country if the Applicant is a citizen, or is constituted, incorporated or registered and operates in conformity with the provisions of the laws of that country, as evidenced by its Articles of Incorporation or Documents of Constitution, and its Registration Documents.</p> <p>The details of nationality will be as per PDS.</p>
	<p>4.4 An Applicant shall not have any conflict of interest with any other party involved with the project, either as an Applicant or in any other capacity during the project formulation and developmental stage. Any Applicant (s) including all members of the Joint Venture found to have a conflict of interest shall be disqualified. Applicant(s) shall be considered to have a conflict of interest,</p> <p>(i) if they participated as a consultant in the preparation of the design or technical specifications of the Works that are the subject of this prequalification.</p> <p>(ii) Where a firm, or a firm from the same economic or financial group, in addition to consulting, also has the capability to manufacture or supply goods or to construct works, that firm, or a firm from the same economic or financial group, cannot normally be a supplier of goods or works, if it provided consulting services for the contract corresponding to this prequalification, unless it can be demonstrated that there is not a significant degree of common ownership, influence or control.</p>
	<p>4.5 An Applicant shall submit only one application in the same Prequalification process, either individually as an Applicant or as a partner of a joint venture. No Applicant can be a subcontractor while submitting an application individually or as a partner of a joint venture in the same Prequalification process. A Sub-contractor in any application may participate in more than one application, but only in that capacity. An Applicant who submits, or participates in, more than one application will cause all the applications in which the Applicant has participated to be disqualified.</p>
	<p>4.6 An Applicant that is under a declaration of ineligibility by the Employer in accordance with ITA 3, on the date of submission of the application or thereafter, shall be disqualified.</p>

	<p>4.7 Applicants and all parties constituting the Applicant shall provide such evidence of their continued eligibility satisfactory to the Employer, as the Employer shall reasonably request.</p>
	<p>4.8 The Applicant shall be considered disqualified / in-eligible if:</p> <p>(a) The Applicant or any of its partners and/or subcontractors included in the application for pre-qualification has been banned for business with Ministry of Railways along with <u>any of its attached and subordinate offices through an order issued by Ministry of Railways as per list available on Web site (http://www.indianrailways.gov.in/railwayboard)</u> of Civil Engg Directorate of Railway Board pertaining to Banning of Business, with the Banning being valid as on the last date of submission of the PQ Application.</p> <p>(b) The Applicant or any of its partners included in the application for pre-qualification has suffered bankruptcy / insolvency or it is in the process of winding-up or there is a case of insolvency pending before any Court on the deadline of submission of Application.</p>
	<p>4.9 The Applicant / each partner of the joint venture, shall submit an undertaking to this effect duly signed by their authorized signatory along with the Application for prequalification stating that they are not liable to be disqualified as per sub clause 4, using the appropriate Performa mutatis-mutandis given in Section IV. Non submission of such an affidavit by the Applicant shall result in summary rejection of his Application.</p>
5. Eligible Goods and Related Services	<p>5.1 All goods and related services to be supplied under the Contract can have their origin in any country as per extant rules of Government of India in vogue.</p>

B. Contents of the Prequalification Document	
6. Sections of Prequalification Document	<p>6.1 The document for the prequalification of Applicants (hereinafter - "prequalification document") consists of parts 1 and 2 which comprise all the sections indicated below, and should be read in conjunction with any Addendum issued in accordance with ITA 8.</p> <p>PART 1 : Prequalification Procedures</p> <p style="padding-left: 40px;">Section I. Instructions to Applicants (ITA)</p> <p style="padding-left: 40px;">Section II. Prequalification Data Sheet (PDS)</p> <p style="padding-left: 40px;">Section III Qualification Criteria and Requirements</p> <p style="padding-left: 40px;">Section IV. Application Forms</p> <p>PART 2 : Works Requirements</p> <p style="padding-left: 40px;">Section V - Project Information and Scope of Works</p>

	6.2 The “Invitation for Prequalification Applications” issued by the Employer is not part of the prequalification document. Invitation for pre-qualification is provided as an attachment to this Prequalification Document for information.
	6.3 The Employer accepts no responsibility for the completeness of the prequalification document and its addenda unless they were obtained directly from the Employer.
	6.4 The Applicant is expected to examine all instructions, forms, and terms in the Prequalification Document and to furnish all information or documentation required by the Prequalification Document.
7. Clarification of Prequalification Document	7.1 A prospective Applicant requiring any clarification of the Prequalification Document shall contact the Employer in writing at the Employer’s address indicated in the PDS . The clarification/query should be received at least three (3) days prior to the Pre-submission conference. DFCC response to queries will be uploaded on the DFCCIL website www.dfccil.gov.in . Should the Employer deem it necessary to amend the prequalification document as a result of a clarification, it shall do so following the procedure under ITA 8 and in accordance with the provisions of ITA 17.2. 7.2 Pre submission conference : Details in PDS.
8. Amendment of Prequalification Document	8.1 At any time prior to the deadline for submission of applications, The Employer may amend the Prequalification Document by issuing addenda.
	8.2 Any addendum issued shall be part of the Prequalification Document and shall be communicated in writing to all who have obtained the prequalification document from the Employer.
	8.3 To give prospective Applicants reasonable time to take an addendum into account in preparing their applications, the Employer may, at its discretion, extend the deadline for the submission of application. Necessary information in this regard will be uploaded on DFCCIL website www.dfccil.gov.in . For further details refer PDS.
C. Preparation of Applications	
9. Cost of Applications	9.1 The Applicant shall bear all costs associated with the preparation and submission of its application. The Employer will in no case be responsible or liable for those costs, regardless of the

	<p>conduct or outcome of the prequalification process.</p> <p>9.2 The cost of PQ document is Rs. 10,000/- (Rs. Ten Thousand Only). The details for obtaining PQ document will be as per PDS.</p>
10. Language of Application	10.1 The PQ application, as well as all correspondence and documents relating to Prequalification by the Applicant and the Employer, shall be written in English . Supporting documents and printed literature that are part of the application may be in another language provided they are accompanied by an accurate translation of the relevant pages in English as certified by the Embassy/High Commission/Consulate of Indian origin of the bidder or the Embassy / High Commission / Consulate of the country of origin of the Applicant in India. For the purpose of interpretation and evaluation of the bid, translation certified by Embassy / High Commission / Consulate shall prevail.
11. Documents Comprising the Application	11.1 The application shall comprise the following: <ul style="list-style-type: none"> (a) Application Submission Form, in accordance with ITA 12; (b) documentary evidence establishing the Applicant's eligibility to pre-qualify, in accordance with ITA 13; and (c) documentary evidence establishing the Applicant's qualifications, in accordance with ITA 14.
12. Application Submission Form	12.1 The Applicant shall prepare an Application Submission Form using the form furnished in Section IV, Application Forms. This Form must be completed without any alteration to its format.
13. Documents Establishing the Eligibility of the Applicant	13.1 To establish its eligibility in accordance with ITA 4, the Applicant shall complete the eligibility declarations in the Application Submission Form and Forms ELI 1.1 and 1.2, included in Section IV, Application Forms.
14. Documents Establishing the Qualifications of Applicant	14.1 To establish its qualifications to perform the contract(s) in accordance with Section III, Qualification Criteria and Requirements, the Applicant shall provide the information requested in the corresponding Information Sheets included in Section IV, Application Forms.
15. Signing of the Application and Number of Copies	15.1 The Applicant shall prepare one original of the documents comprising the application as described in ITA 11 and clearly mark it "ORIGINAL". The original of the application shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Applicant.

	15.2 The Applicant shall submit copies of the signed original application, in the number specified in the PDS, and clearly mark them "COPY". In the event of any discrepancy between the original and the copies, the original shall prevail.
D. Submission of Applications	
16. Sealing and Identification of Applications	16.1 The Applicant shall enclose the original and the copies of the application in a sealed envelope that shall: (a) bear the name and address of the Applicant; (b) be addressed to the Employer, in accordance with ITA 17.1; and (c) bear the specific identification of this prequalification process (IFP No.) indicated in the PDS 1.1.
	16.2 The Employer will accept no responsibility for not processing any envelope that was not identified as required.
17. Deadline for Submission of Applications	17.1 Applicants may always submit their applications by mail (i.e. by Post) or by hand. When so specified in the PDS, applicants shall have the option of submitting their applications electronically, in accordance with electronic application submission procedures specified in the PDS. Applications shall be received by the Employer at the address and no later than the deadline indicated in the PDS. A receipt will be given for all applications submitted.
	17.2 The Employer may, at its discretion, extend the deadline for the submission of applications by amending the Prequalification Document in accordance with ITA 8, in which case all rights and obligations of the Employer and the Applicants subject to the previous deadline shall thereafter be subject to the deadline as extended.
18. Late Applications	18.1 Any application received by the Employer after the deadline for submission of applications prescribed in accordance with ITA 17 will be treated as indicated in the PDS.
19. Opening of Applications	19.1 Any specific electronic application opening procedures required if electronic submission of applications is permitted pursuant to Sub Clause 17.1 shall be as specified in the PDS. Employer shall prepare a record of the opening of applications that shall include, as a minimum, the name of the Applicant. A copy of the record shall be distributed to all Applicants.
E. Procedures for Evaluation of Applications	
20. Confidentiality	20.1 Information relating to the evaluation of applications, and recommendation for prequalification, shall not be disclosed to

	Applicants or any other persons not officially concerned with such process until the notification of prequalification is made to all Applicants.
	20.2 From the deadline for submission of applications to the time of notification of the results of the prequalification in accordance with ITA 28, any Applicant that wishes to contact the Employer on any matter related to the prequalification process, may do so but only in writing. It should be as per PDS.
21. Clarification of Applications	21.1 To assist in the evaluation of applications, the Employer may, at its discretion, ask any Applicant for a clarification of its application which shall be submitted within a stated reasonable period of time. Any request for clarification and all clarifications shall be in writing.
	21.2 If an Applicant does not provide clarifications and/or documents requested by the date and time set in the Employer's request for clarification, its Application shall be evaluated based on the information and documents available at the time of evaluation of the Application.
22. Responsiveness of Applications	22.1 The Employer may reject any application which is not responsive to the requirements of the prequalification document.
23. Domestic Bidder Price preference	23.1 Unless otherwise specified in the PDS, a margin of preference for domestic Applicants shall not apply in the bidding process resulting from this prequalification.
24. Subcontractors	24.1 Applicants can engage the subcontractor as indicated in PDS.
F. Evaluation of Applications and Prequalification of Applicants	
25. Evaluation of Applications	25.1 The Employer shall use the factors, methods, criteria, and requirements defined in Section III, Qualification Criteria and Requirements to evaluate the qualifications of the Applicants. The use of other methods, criteria, or requirements shall not be permitted.
	25.2 Deleted.
	25.3 Deleted.
26. Employer's Right to Accept or Reject Applications	26.1 The Employer reserves the right to accept or reject any application, and to annul the prequalification process and reject all applications at any time, without thereby incurring any liability to Applicants.
27. Prequalification of Applicants	27.1 All Applicants whose applications have met or exceeded ("passed") the specified threshold requirements will, to the exclusion of all others, be pre-qualified by the Employer.
28. Notification	28.1 Once the Employer has completed the evaluation of the

of pre - qualification	applications it shall notify all Applicants in writing of the names of those applicants who have been pre-qualified.
29. Invitation to Bid	29.1 After the notification of the results of the prequalification the Employer shall invite bids from all the Applicants that have been pre-qualified.
	29.2 Applicants may be required to provide a Bid Security acceptable to the Employer in the form and amount, to be specified in the Bidding Documents, and the successful Bidder shall be required to provide a Performance Security as specified in the Bidding Documents.
30. Changes in Qualifications of Applicants	30.1 Any change in the structure or formation of an Applicant after being pre-qualified in accordance with ITA 27 and invited to bid shall be subject to a written approval of the Employer prior to the deadline for submission of bids. Such approval shall be denied if as a consequence of the change the Applicant no longer substantially meets the qualification criteria set forth in Section III, Qualification Criteria and Requirements; or if in the opinion of the Employer, a substantial reduction in competition may result. Any such changes shall be submitted to the Employer not later than 14 days after the date of the Invitation for Bids.

Section II. Prequalification Data Sheet (PDS)

A. General	
ITA 1.1	The Employer for the Project is: Dedicated Freight Corridor Corporation of India Limited (A Government of India Enterprise) Project Officer : General Manager/CO/EC
ITA 1.1	Applications are invited from interested Applicants for Prequalification of Bidders to undertake work of : Design and Construction of Formation in Embankments/Cuttings including blanketing, Viaducts, Rail Flyover, Bridges (Major, Minor & RUBs), Supply and Spreading of Ballast and other related infrastructural works for double track electrified railway line on Design Build Lump Sum Basis from Howrah end approach of DFC Sone bridge to Chirailapathu station of IR towards Howrah & to New Sonnagar station towards Garhwa and at Dehri-on-Sone yard from Km. 3.16 to Km. 5.38 in connection with Eastern Dedicated Freight Corridor in the state of Bihar in India.
ITA 1.1	Invitation For Pre-qualification (IFP) for : Design and Construction of Formation in Embankments/Cuttings including blanketing, Viaducts, Rail Flyover, Bridges (Major, Minor & RUBs), Supply and Spreading of Ballast and other related infrastructural works for double track electrified railway line on Design Build Lump Sum Basis from Howrah end approach of DFC Sone bridge to Chirailapathu station of IR towards Howrah & to New Sonnagar station towards Garhwa and at Dehri-on-Sone yard from Km. 3.16 to Km. 5.38 in connection with Eastern Dedicated Freight Corridor in the state of Bihar in India. IFP No. : HQ/EN/EC/PQ/SEB-BCJ-CPBH
ITA 4.1	In the case of applicant being joint venture following conditions will apply : i) Separate identity/name shall be given to the Joint Venture Firm. ii) Maximum number of partners in the JV shall be limited to 3 (Three). iii) One of the members of the JV firm shall be its lead member who shall have majority (at least 51%) share of interest in the JV firm. The other members shall have a share of not less than 20% each in case of JV firms with upto 3 members. iv) In case of JV firm with foreign member(s), the lead member has to be an Indian firm with a minimum share of 51%. v) Applicants from an eligible country may be excluded if as a matter of law or official regulations the Government of India (GOI) prohibits commercial relations with the country. vi) Only letter of intent to form JV, signed by all parties, is required at this stage. vii) <u>Joint And Several Liability</u> - Members of the JV Firm to which the contract is awarded, shall be jointly and severally liable to the

	<p>Employer (DFCCIL) for execution of the project in accordance with General and Special Conditions of 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.</p> <p>viii) <u>Duration of the Joint Venture Agreement</u> - shall be valid during the entire currency of the contract including the period of extension, if any and the defect liability period after the work is completed.</p> <p>ix) <u>Governing Laws</u> - The Joint Venture Agreement shall in all respect be governed by and interpreted in accordance with Indian Laws.</p> <p>x) The JV shall nominate a representative (from lead partner only) who shall have the authority to conduct all business for and on behalf of JV during the pre-qualification process and subsequent stages.</p> <p>xi) Value/Length of a completed work done by a member in an earlier JV firm shall be reckoned only to the extent of the concerned member's share in that JV firm for the purpose of satisfying his/her compliance to the technical eligibility criteria in the tender under consideration.</p> <p>xii) Contractual payment received by a member in an earlier JV firm shall be reckoned only to the extent of the concerned member's share in that JV firm for the purpose of satisfying compliance of the financial eligibility criteria in tender under consideration.</p> <p>xiii) In addition to above the following will be conditions of JV which will be part of the Bid document. However, these conditions are given below for information and guidance.</p> <p>a) Normally Earnest Money Deposit (EMD) shall be submitted only in the name of Employer "Dedicated Freight Corridor Corporation of India Limited" A/c JV Firm and not in the name of constituent member. However, in exceptional cases EMD in the name of Employer "Dedicated Freight Corridor Corporation of India Limited" A/c Lead Member can be accepted subject to giving written confirmation from JV members to the effect, that EMD submitted by the Lead Member may be deemed as EMD submitted by JV Firm.</p> <p>b) A copy of Memorandum of Understanding (MOU) executed by the JV members shall be submitted by the JV Firm alongwith the Tender. The complete details of the members of the JV firm, their share and responsibility in the JV firm etc. particularly with reference to financial, technical and other obligations shall be furnished in the MOU.</p> <p>c) Once the tender is submitted, the MOU shall not be modified / altered / terminated during the validity of the tender. In case the tenderer fails to observe/comply with this stipulation, the full</p>
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	<p>Earnest Money Deposit (EMD) shall be liable to be forfeited.</p> <p>d) Approval for change of constitution of JV Firm shall be at the sole discretion of the Employer (DFCCIL). The constitution of the JV Firm shall not be allowed to be modified after submission of the tender by the JV Firm, except when modification becomes inevitable due to succession laws etc. and in any case the minimum eligibility criteria should not get vitiated. However, the Lead Member shall continue to be the Lead Member of the JV Firm. Failure to observe this requirement would render the offer invalid.</p> <p>e) Similarly, after, the contract is awarded, the constitution of JV Firm shall not be allowed to be altered during the currency of contract except when modification become inevitable due to succession laws etc. and in any case the minimum eligibility criteria should not get vitiated. Failure to observe this stipulation shall be deemed to be breach of contract with all consequential penal action as per contract conditions.</p> <p>f) On award of contract to a JV Firm, a Performance Guarantee shall be submitted by the JV Firm as per tender conditions. All the Guarantees like Performance Guarantee, Bank Guarantee for Mobilization Advance, etc. shall be accepted only in the name of Employer “Dedicated Freight Corridor Corporation of India Limited” A/c JV Firm and no splitting of guarantees amongst the members of the JV Firm shall be permitted.</p> <p>g) On issue of LOA (Letter Of Acceptance), an agreement among the members of the JV Firm (to whom the work has been awarded) shall be executed and got registered before the Registrar of the Companies under Companies Act or before the Registrar/Sub-Registrar under the Registration Act, 1908. This JV Agreement shall be submitted by the JV Firm to the DFCCIL before signing the contract agreement for the work. In case the tenderer fails to observe/comply with this stipulation, the full Earnest Money Deposit (EMD) shall be forfeited and other penal actions due shall be taken against partners of the JV and the JV.</p> <p>h) No member of the Joint Venture Firm shall have the right to assign or transfer the interest right or liability in the contract without the <i>written</i> consent of the other members and that of the employer (DFCCIL) in respect of the said tender/<i>contract</i>.</p> <p>i) <i>In case</i> one or more of the members of the JV Firm is/are partnership firm(s), following documents shall be submitted :</p> <p>(i) Notary certified copy of the Partnership Deed</p> <p>(ii) Consent of all the partners to enter into the Joint Venture /Agreement on a stamp paper of appropriate value (in original).</p> <p>(iii) Power of Attorney (duly registered as per prevailing law) in favour of one of the partners of the partnership firm to sign</p>
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	<p>the JV Agreement on behalf of the partnership firm and create liability against the firm.</p> <p>j) In case one or more members is/are Proprietary Firm or HUF, the following documents shall be <i>enclosed</i> : Affidavit on Stamp Paper of appropriate value declaring that his/her Concern is a Proprietary Concern and he/she is sole proprietor of the Concern OR he/she is in position of "KARTA" of Hindu Undivided Family (HUF) and he/she has the authority, power and consent given by other partners to act on behalf of HUF.</p> <p>k) In case one or more members is/are limited companies, the following documents shall be submitted : (i) Notary certified copy of resolutions of the Directors of the Company, permitting the company to enter into JV agreement, authorizing MD or one of the Directors or Managers of the Company to sign JV Agreement, such other documents required to be <i>signed</i> on behalf of the Company and enter into liability against the company and/or do any other act on behalf of the company. (ii) Copy of Memorandum and Articles of Association of the Company. (iii) Power of Attorney (duly registered as per prevailing law) by the Company authorizing the person to do/act mentioned in the sub-para (k)(i) above.</p>
ITA 4.3	In case of single entity, the applicant should be Indian firm. In case of JV, the conditions described in PDS at para-ITA 4.1 shall apply.
B. Contents of the Prequalification Document	
ITA 7.1	<p>All communication between the Employer and the Applicant shall be in writing. For the purposes of seeking clarification, the Employer's address is:</p> <p>Dedicated Freight Corridor Corporation of India Limited, Attention : Mr. Ghansham Bansal Designation : General Manager/CO/ EC Address : Room # 513; 5th Floor Pragati Maidan Metro Station Building Complex , New Delhi - 110001, India</p> <p>Telephone : +91 - 11 - 23454680, Facsimile number : +91 - 11 - 23454682 Electronic mail address : gbansal@dfcc.co.in</p>
ITA 7.2	Pre-submission Conference: A pre-submission conference will be held to clarify the issues related to this Pre-qualification document on the date, time and venue of the Pre-submission conference indicated below. Applicants should give their queries in writing well in advance before pre-submission Conference. All interested Applicants may attend the Pre-submission Conference. DFCC response to queries will be posted on the DFCCIL's website. Non-attendance at the pre-

	<p>submission conference will not be a cause for disqualification of the Applicant.</p> <p>Date : 24.06.2015 (Wednesday) Time: 1500 Hrs.</p> <p>Venue : Conference Room, Dedicated Freight Corridor Corporation of India Limited, 4th Floor, Pragati Maidan Metro Station Building Complex, New Delhi-110001.</p> <p>Website of DFCC : www.dfccil.gov.in</p>
ITA 8.3	<p>DFCCIL may issue addendum(s)/corrigendum(s) to the PQ documents. In such case, the addendum(s)/corrigendum(s) shall be issued and placed on DFCCIL website atleast fifteen days in advance of date fixed for submission of PQ applications. The Applicants must visit DFCCIL 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, alongwith the submission of the PQ application. Any Application submitted without addendum(s)/ corrigendum(s) (if any) shall be summarily rejected.</p>
C. Preparation of Applications	
ITA 9.2	<p>The interested applicant may purchase the PQ document from the address given in PDS Para 7.1 between 1000 hrs to 1700 hrs. on all working days from 04.06.2015 to 22.07.2015 on payment of non-refundable cost of Rs.10,000/- in the form of DD/Banker's Cheque issued by SBI or any other nationalized bank or schedule bank of India in favour of "Dedicated Freight Corridor Corporation of India Limited", payable at Delhi/New Delhi. Prequalification document requested by Post will be dispatched by Registered/Speed post/Courier on payment of an extra amount of Rs. 500/- (Rs. Five Hundred only). DFCCIL will not be held responsible for postal delay if any, in the delivery of the PQ document or non-receipt of the same. Alternatively prospective applicant can download the PQ document from DFCCIL website (www.dfccil.gov.in). In case of downloaded application an account payee DD/Banker's Cheque issued by SBI or any other nationalized bank or schedule bank of India amounting to Rs. 10,000/- in favour of Dedicated Freight Corridor Corporation of India Ltd., Payable at Delhi/New Delhi has to be attached with the PQ application.</p> <p>In case of JV the <i>PQ application</i> form can be purchased in the name of JV / any constituent member of JV but the application to be submitted only in the name of the JV Firm.</p>
ITA 10.1	<p>The language of the application as well as of all correspondence is English.</p>
ITA 14.1	<p>The applicant shall submit the certificates from the Clients/TDS certificate/Audited balance sheet duly attested by notary and/or Photostat of original certificates of client/ TDS certificate/Audited balance sheet duly attested by notary for each contract included in Section IV: Form FIN – 2.1 & Form EXP 3.1.</p>

ITA 15.1	Authorization is required to be submitted :- (1) By the partners of JV in favour of their authorized representatives. (2) By the above representatives of JV partners in favour of the representative of Applicant (Lead member of JV) submitting the application on their behalf.
ITA 15.2	In addition to the original (hard bound), the number of hard bound copies to be submitted with the application is : One Each page of the application shall be Serially numbered and indexed. One copy in digital - Read Only Diskette/CD/DVD shall also be submitted.
D. Submission of Applications	
ITA 17.1	Applicants shall not have the option of submitting their applications electronically. Applications submitted electronically will not be accepted and shall be rejected by the Employer. For application submission purposes only, the Employer's address is the same as that indicated as per ITA 7.1 above. Deadline of Submission of PQ Application : Upto 1500 hrs. of 23.07.2015 Date of Opening of PQ Application : 1530 hrs. of 23.07.2015
ITA 18.1	Applications received after deadline for submission of applications will be returned unopened to the Applicants.
E. Procedures for Evaluation of Applications	
ITA 20.2	After the deadline for submission of applications to the time of notification of the results of the pre-qualification in accordance with ITA 28, Applicant is not allowed to modify / supplement or change any information which has a material effect on his qualification status.
ITA 23.1	The margin of preference shall not apply for domestic Applicants
ITA 24.1	On award of contract, the contractor can engage sub-contractor for design activities who shall meet the requirements as specified in the Bid Document. For engagement of other sub-contractors, provisions of GCC provided in bid document shall prevail.
F. Evaluation of applications and prequalification of applicants	
ITA 25.1	The Financial Performance and Experience of Associates, Parent Companies or Sister Companies shall not be considered unless they are part of JV.
ITA 29.1	Applicants are advised that the following description of bidding process is only a summary of information. Prequalified bidders shall be guided by the detailed provisions of the bidding documents after they have been made available to them. Pre-qualified Bidders (Applicants) will be invited to submit their proposal i.e. Technical and Financial Bids in separate packets, marked so clearly.

	<p>Technical bids shall be in response to the performance/ technical specifications for the project included in the bid document. Technical proposals are un-priced proposals and shall contain no prices or price schedules or other reference to rates and prices for completing the works. Financial bid shall contain only the information as described in the bidding documents.</p> <p>Prior to submission of bids the Employer may conduct clarification meetings with the Bidders to clarify any aspects of its Technical bid that require explanation and to review any queries/ suggestions of Bidder regarding commercial or contractual provisions of the bidding documents.</p> <p>The Employer will examine and carry out a detailed evaluation of the Technical bids to determine whether they are responsive or not. Responsive proposals are those proposals in which the technical documents are complete, properly signed by authorized representative, in order and in compliance to the performance/ technical specifications or other criteria specified in the bidding document.</p> <p>Any bids found to be non- responsive or not meeting the minimum levels of the performance or other criteria specified in the bidding document will be rejected by the Employer and not included for further consideration. The Financial Bid packets of such bidders will be returned to them unopened.</p> <p>Financial bids of Technically responsive proposals will only be opened and evaluated.</p> <p>Evaluation of bid: All bids shall be received by the same deadline and opened and evaluated simultaneously so as to determine the lowest eligible financial offer.</p>
ITA 30.1	Joint Venture: After pre-qualification the Bidders are not allowed to form Joint Venture with other Bidders.

Section III. Qualification Criteria and Requirements

This Section contains all the methods, criteria, and requirements that the Employer shall use to evaluate applications. The information to be provided in relation to each requirement and the definitions of the corresponding terms are included in the respective Application Forms.

Contents

- 1.0 General**
- 2.0 Qualification Criteria and Requirements**

1.0 General:-

- (1) For the purposes of conversion of foreign currency to Indian Rupees (INR) the Bank Currency (BC) selling exchange rate as published by State Bank of India on the date 28 days prior to last date of submission of application shall be used. For few of the currencies where BC selling rates are not published by SBI or Reserve Bank of India, the exchange rate may be obtained from the web site—<http://www.oanda.com/currency/historical-rates> or <http://www.xe.com/ict/>.
- (2) For the purpose of evaluation of proposals, all values given in INR in Eligibility and Qualification Criteria and the values provided by the applicants in their PQ proposals in the currency other than INR shall be converted into one currency i.e. INR as per exchange rate mentioned in note (1) above.
- (3) Completion certificate from Govt. Organisation/PSUs/Public Limited Company(s) only will be accepted. The certificate from Private individual/Private Company for whom such works are executed shall not be accepted. In case, the work is executed for Public Limited Company, copy of work order, Bill of Quantity, TDS certificate for all payments received and copy of final/last bill paid by client shall be submitted.
- (4) Deleted.
- (5) In support of Form FIN 2.1 (Section IV) against eligibility criteria 2.1 the applicants must submit
 - **Certificate from client** showing the details of payment received in a particular financial year, duly attested by Notary.
 - and/or
 - TDS certificate/the audited balance sheet duly attested by Notary clearly indicating the contractual amount received.
- (6) For Forms Exp 3.1
 - Self declared quantities / values are not acceptable.
 - All completions certificates should be certified by the client and attested by a Notary.
 - Completion certificate from Govt. Organisation/PSUs/Public Limited Company(s) only will be accepted. **The certificate from Private individual/Private Company for whom such works are executed shall not be accepted.** In case, the work is executed for Public Limited Company, copy of work order, Bill of Quantity, TDS certificate for all payments received and copy of final/last bill paid by client shall be submitted.
 - Value/Length of a completed work done by a member in an earlier JV firm shall be reckoned only to the extent of the concerned member's share in that JV firm for the purpose of satisfying his/her compliance to the technical eligibility criteria in the tender under consideration.
- (7) Contractual payment received by a member in an earlier JV firm shall be reckoned only to the extent of the concerned member's share in that JV firm for the purpose of satisfying compliance of the financial eligibility criteria in tender under consideration.

2.0 Qualification Criteria and Requirements

Eligibility and Qualification Criteria			Compliance Requirements			Documentation
Sub- Clause No.	Subject	Requirement	Single Entity	Joint Venture		Submission Requirements
				All parties combined	Each Partner	
1. Eligibility						
1.1	Nationality	Nationality in accordance with ITA Sub-Clause 4.3 & as specified in PDS 4.3 & 4.1.	Must meet requirement	Must meet requirement for JV	Must meet requirement	Forms ELI – 1.1 & 1.2 , with attachments
1.2	Conflict of Interest	No conflicts of interest in ITA Sub-Clause 4.4	Must meet requirement	Must meet requirement	Must meet requirement	Form ELI -1.0 and 1.0 (a) Application Submission Form and affidavits
1.3	Ineligibility	Not having been declared ineligible by the Employer, as described in ITA Clause 4.6 and 4.8	Must meet requirement	Must meet requirement	Must meet requirement	Form ELI -1.0 and 1.0 (a) Application Submission Form and affidavits

Sub-Clause No.	Subject	Requirement	Single Entity	Joint Venture	Submission Requirements
2. Financial Performance					
2.1	Financial Eligibility Criteria	The contractual payments received by the applicant / JV firm or the arithmetic sum of contractual payments received by all the members of the JV firm in the previous three financial year and the current financial year up to the date of submission of application shall be at least Rs. 485 Crores (Rupees Four hundred Eighty Five Crores).	Must meet requirement	Must meet requirement	Form FIN – 2.1 with attachments
3. Technical Eligibility Criteria					
3.1	Similar Construction Experience	i) The applicant /JV firm or Lead Member of JV firm must have satisfactorily completed at least one single work in last three previous financial years and the current financial year upto the date of submission of application, of construction of Bridge/Viaduct of Railway/Metro Railway/Roads of value Rs. 80 (Eighty) Crores or more (excluding cost of approach embankment), And	Must Meet requirement	Existing JV - Must Meet requirement Or Lead Member of proposed JV - Must Meet Requirement	Form EXP – 3.1 with attachments
		ii) The applicant /JV firm or any Member of JV firm must have satisfactorily completed at least one single work in last three previous financial years and the current financial year upto the date of submission of application, work of construction of Earthwork in formation of Railway/Metro Railway/Roads of value Rs. 35 (Thirty Five) Crores or more.	Must Meet requirement	Existing JV - Must Meet Requirement Or Any Member of proposed JV - Must Meet Requirement	Form EXP – 3.1 with attachments

Section IV. Application Forms

Table of Forms

Application Submission Form

AFFIDAVIT Form

Applicant Information Form

Applicant's Party Information Form

Financial Eligibility Criteria details

Similar Construction Experience

Form ELI -1.0

Application Submission Form

Date: *[insert day, month, year]*

IFP No. and title: *[insert IFP number and title]*

To: *[insert full name of Employer]*

We, the undersigned, apply to be pre-qualified for the referenced IFP and declare that:

- (a) We have examined and have no reservations to the Prequalification Documents, including Addendum(s) No(s)., issued in accordance with Instructions to Applicants (ITA) Clause 8: *[insert the number and issuing date of each addendum]*.
- (b) We shall be jointly and severally liable to the Employer (DFCCIL) for execution of the project in accordance with General and Special Conditions of 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 in accordance with ITA 4.1.
- (c) We have eligible nationality of a country, in accordance with ITA Sub-Clause 4.3: *[insert the nationality of the Applicant, including that of all partners in case of a Joint Venture]*;
- (d) We do not have any conflict of interest, in accordance with ITA Sub-Clause 4.4;
- (e) We have not been declared ineligible by the Employer in accordance with ITA Sub-Clauses 4.6.
- (f) We have not been blacklisted / banned in accordance with ITA Sub Clause 4.8.
- (g) We, are neither Bankrupt/Insolvent nor is in the process of winding up nor there is a case pending before any court on the deadline of submission of the Application in Accordance with ITA Sub-Clause 4.8.
- (h) Deleted.
- (i) We declare that the following commissions, gratuities, or fees have been paid or are to be paid with respect to the prequalification process, the corresponding bidding process or execution of the Contract:

Name of Recipient

Address

Reason

Amount

<i>[insert full name for each occurrence]</i>	<i>[insert street/ number/city/c ountry]</i>	<i>[indicate reason]</i>	<i>[specify amount in local currency and <u>equivalent INR</u>]</i>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

[If none has been paid or is to be paid, indicate "none".]

- (j) We understand that you may cancel the prequalification process at any time and that you are neither bound to accept any application that you may receive nor to invite the pre-qualified applicants to bid for the contract subject of this prequalification, without incurring any liability to the Applicants, in accordance with ITA Clause 26.

Signed *[insert signature(s) of an authorized representative(s) of the Applicant]*

Name *[insert full name of person signing the application]*

In the Capacity of *[insert capacity of person signing the application]*

Duly authorized to sign the application for and on behalf of: Applicant's Name *[insert full name of Applicant]* Address *[insert street number/town or city/country address]*

Dated on *[insert day number]* day of *[insert month]*, *[insert year]*

Form ELI 1.0 (a)
[refer: ITA sub clause 4.9]

**FORMAT FOR AFFIDAVIT TO BE SUBMITTED BY APPLICANT
ALONGWITH THE APPLICATION**

(To be executed in presence of Public Notary on non-judicial stamp paper of the appropriate value in accordance with relevant stamp Act. The stamp paper has to be in the name of the Applicant(s))

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

1. That the Applicant or any of its constituent have no reservations to the Prequalification Documents, including Addendum(s) No(s), issued in accordance with instructions to Applicant(ITA) clause 8: *(Insert the number and issuing date of each addendum)*.
2. That the applicant or any of its constituents shall be jointly and severally liable to the Employer (DFCCIL) for execution of the project in accordance with General and Special Conditions of Contract. The JV member 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 in accordance with ITA 4.1.
3. That the applicant or any of its constituents have eligible nationality of a country, in accordance with ITA Sub-clause 4.3: *(insert the nationality of the Applicant, including that of all partners in case of a Joint Venture)*;
4. That the applicant or any of its constituents do not have any conflict of interest, in accordance with Sub-Clause 4.4;
5. That the applicant or any of its constituents have not been declared ineligible by the Employer in accordance with ITA Sub-clause 4.6.
6. That the applicant or any of its constituents have not been banned in accordance with ITA Sub-Clause 4.8.
7. That Applicant or any of its constituents is neither Bankrupt/Insolvent nor is in the process of winding-up nor there is a case of pending before any Court on the deadline of submission of the Application in accordance with ITA Sub Clause 4.8.

8. That Applicant or any of its constituents declare and certify that they have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
9. That Applicant or any of its constituents declare that the information and documents submitted along with the application by us are correct and we are fully responsible for the correctness of the information and documents, submitted by us.
10. That Applicant or any of its constituents also understand that if the contents of the affidavit are found to be false at any time after the award of the contract it will lead to termination of the contract, forfeiture of Bid or Performance Security and blacklisted from any award of any future contract for a period of five years from the deadline for submission of the Application.

SEAL AND SIGNATURE OF THE APPLICANT

Verification:

Verified on _____ day of _____ at _____ that the contents of the above mentioned affidavit are true and correct and nothing material has been concealed there from.

SEAL AND SIGNATURE OF THE APPLICANT

- * *The contents in Italics are only for guidance purpose and details as appropriate, are to be filled in suitably by Applicant.*

Attestation before Magistrate/Public Notary

Form ELI -1.1 Applicant Information Form

Date: *[insert day, month, year]*

IFP No. and title: *[insert IFP number and title]*

Page *[insert page number]* of *[insert total number]* pages

Applicant's legal name <i>[insert full legal name]</i>
In case of Joint Venture (JV), legal name of each partner: <i>[insert full legal name of each partner in JV]</i>
Applicant's Actual or Intended country of constitution: <i>[indicate country of Constitution]</i>
Applicant's actual or Intended year of constitution: <i>[indicate year of Constitution]</i>
Applicant's legal address in country of constitution: <i>[insert street/ number/ town or city/ country]</i>
Applicant's authorized representative information Name: <i>[insert full legal name]</i> Address: <i>[insert street/ number/ town or city/ country]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers, including country and city codes]</i> E-mail address: <i>[indicate e-mail address]</i>
Attached are copies of original documents of <input type="checkbox"/> Articles of Incorporation or Documents of Constitution, and documents of registration of the legal entity named above, in accordance with ITA 4.3. <input type="checkbox"/> In case of JV, letter of intent to form JV.

Note: - This form is required to be filled by Applicant/JV firm giving details of Applicant/ JV firm.

**Form ELI -1.2
Applicant's Party Information Form**

[The following form shall be filled in for the Applicant's parties including partner(s) of a joint venture]

Date: *[insert day, month, year]*

IFP No. and title: *[insert IFP number and title]*

Page *[insert page number]* of *[insert total number]* pages

JV applicant legal name: <i>[insert full legal name]</i>
JV applicant legal name: <i>[insert full legal name of Applicant's Party]</i>
JV applicant country of registration: <i>[indicate country of registration]</i>
JV applicant year of constitution: <i>[indicate year of constitution]</i>
JV applicant legal address in country of constitution: <i>[insert street/ number/ town or city/ country]</i>
JV applicant authorized representative information Name: <i>[insert full legal name]</i> Address: <i>[insert street/ number/ town or city/ country]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers, including country and city codes]</i> E-mail address: <i>[indicate e-mail address]</i>
Attached are copies of original documents of <input type="checkbox"/> Articles of Incorporation or Documents of Constitution, and Registration Documents of the legal entity named above, in accordance with ITA 4.3.

Note: - Separate ELI 1.2 form is required to be filled by Applicant / Lead member of JV and other members of JV.

**Form FIN - 2.1
Financial Eligibility Criteria Details**

[The following table shall be filled in for the Applicant and for each partner of a Joint Venture]

Applicant's/Joint Venture Partner's Legal Name: *[insert full name]*

Date: *[insert day, month, year]*

Applicant's Party Legal Name: *[insert full name]*

IFP No. and title: *[insert IFP number and title]*

Page *[insert page number]* of *[insert total number]* pages

Contractual Payments Received		
Year (Financial year to be indicated by Applicant)	Amount and Currency	Equivalent INR
Current Year (2015-16)	<i>[insert amount and indicate currency]</i>	<i>[insert amount in INR equiv.]</i>
Year 1 (2014-15)		
Year 2 (2013-14)		
Year 3 (2012-13)		
Total Contractual Payment		

Note : In support of above please provide documents as detailed in Section-III 1.0 General Sub-para (5).

Form EXP - 3.1 Similar Construction Experience

Applicant's Legal Name: *[insert full name]*Date: *[insert day, month, year]*Applicant's Party Legal Name: *[insert full name]*IFP No. and title: *[insert IFP number and title]*Page *[insert page number]* of *[insert total number]* pages

The applicant or member of JV must complete the information in this form as per Section III, 2.0 Qualification Criteria and Requirements, Sub-clause 3.1.

Contract No. <i>[insert number] of [insert number of similar contracts required]</i>	Information	
Contract Identification	<i>[insert contract name and number, if applicable]</i>	
Award date	<i>[insert day, month, year, e.g., 3 June, 2012]</i>	
Completion date	<i>[insert day, month, year, e.g., 3 Oct, 2014]</i>	
Role in Contract	Contractor	
Total Contract Amount	<i>[insert total contract amount in the currency as given in the contract]</i>	<i>[insert Total contract amount in equivalent INR]</i>
If partner in a JV, specify participation in total contract amount as per section III	<i>[insert percentage of share in JV]</i>	
Employer's Name:	<i>[insert full name]</i>	
Address: Telephone/fax number E-mail:	<i>[indicate street / number / town or city / country] [insert telephone/fax numbers, including country and city area codes] [insert e-mail address, if available]</i>	
Description of similar work	<i>(Insert description of similar works)</i>	
In accordance with sub-clause 3.1(i) of Section III. 2.0 Qualification criteria and requirements :		
a) Amount of work for construction of Bridge/Viaduct of Railway/Metro Railway/ Roads (excluding cost of approach embankment)	<i>[insert amount of the work satisfactorily completed qualifying as similar construction experience as mentioned in Sub-clause 3.1 (i) of Qualifying criteria in INR in words and in Figures]</i>	
b) Type of Structure	<i>[insert description of work like Bridge/Viaduct for construction of Railway/Metro Railway/Roads</i>	
c) Completion date of similar work.	<i>[insert date of completion]</i>	
In accordance with sub-clause 3.1(ii) of Section III. 2.0 Qualification criteria and requirements:		
a) Amount of construction of Earthwork in Formation of Railway/Metro Railway/ Roads	<i>[insert amount for Earthwork in formation satisfactorily completed qualifying as similar construction experience as mentioned in Sub-clause 3.1 (ii) of Qualifying criteria]</i>	
b) Type of Earthwork	<i>[insert description of work like formation for construction of Railway/Metro Railway/Roads</i>	
c) Completion date of similar work.	<i>[insert date of completion]</i>	

Note :

- (i) In support of above please provide documents as detailed in Section-III - 1.0 General Sub-para (6).
- (ii) Use separate form for each work.

PART 2 - Works Requirements

Section V. Project Information and Scope of Works

Contents

Clause	Description
1.0	General
2.0	Project Information
3.0	Salient features of the project
4.0	Scope of Works in Brief
5.0	Project Implementation
6.0	Site and Other Data

Project Information & Scope of Work in Brief

1. General

- 1.1 Dedicated Freight Corridor Corporation of India (DFCCIL) is a Special Purpose Vehicle set up under the administrative control of Ministry of Railways to undertake planning & development, mobilization of financial resources and construction, maintenance and operation of the Dedicated Freight Corridors. In the first phase, DFCCIL will be constructing two corridors – the Western DFC and Eastern DFC- spanning a total length of about 3300 route km. The Eastern Corridor, starting from Ludhiana in Punjab and pass through the states of Haryana, Uttar Pradesh, Bihar, Jharkhand and terminate at Dankuni in West Bengal. The Western Corridor will traverse the distance from Dadri to Mumbai, passing through the states of UP, Delhi, Haryana, Rajasthan, Gujarat and Maharashtra.

The route alignment of Freight Corridors is mostly parallel to existing adjacent Indian Railway Track. However alignment is on detour at some locations to avoid social/environmental/wild life impact.

The project entails construction of mostly double-track electrified railway lines. Bridges and embankment would be fit for 32.5 Tonne Axle load and Track structure would be designed for handling 25 Tonne axle load with train speed up to 100 Kmph.

The Eastern Corridor will handle single stack containers whereas Western Corridor is planned to cater to double stack containers. Up gradation of transportation technology, increase in productivity and reduction in unit transportation costs have been taken as guiding principles for freight corridor.

2.0 Project Information :

DFCCIL work for the section of Mughalsarai (Approx. Rly Km 669) to Sone Bridge near Sonnagar (Approx. Rly Km. 550.2) (except from Km. 3.16 to Km. 5.38 near Dehri-on-Sone) is under progress.

However, work from Sone Bridge to connection with IR near Chirailapathu (towards Howrah), Sone Bridge to connection with IR near Bagahabishunpur (towards Garhwa) and from Km. 3.16 to Km. 5.38 (near Dehri-on-Sone) has not yet been contracted for execution.

In order to commission the entire section of Mughalsarai to Sonnagar with IR connections, DFCCIL intends to carry out the works in remaining section i.e.

“Design and Construction of Formation in Embankments/Cuttings including blanketing, Viaducts, Rail Flyover, Bridges (Major, Minor & RUBs), Supply and Spreading of Ballast and other related infrastructural works for double track electrified railway line on Design Build Lump Sum Basis from Howrah

end approach of DFC Sone bridge to Chirailapathu station of IR towards Howrah & to New Sonnagar station towards Garhwa and at Dehri-on-Sone yard from Km. 3.16 to Km. 5.38 in connection with Eastern Dedicated Freight Corridor in the state of Bihar in India”

which includes construction of a viaduct and a double track Rail Fly Over near Sonnagar station over IR and DFC track.

Proposed works fall in the districts of Aurangabad and Rohtas of Bihar state.

- 2.1.** Accordingly, DFCCIL intends to carry out the work :
 “Design and Construction of Formation in Embankments/Cuttings including blanketing, Viaducts, Rail Flyover, Bridges (Major, Minor & RUBs), Supply and Spreading of Ballast and other related infrastructural works for double track electrified railway line on Design Build Lump Sum Basis from Howrah end approach of DFC Sone bridge to Chirailapathu station of IR towards Howrah & to New Sonnagar station towards Garhwa and at Dehri-on-Sone yard from Km. 3.16 to Km. 5.38 in connection with Eastern Dedicated Freight Corridor in the state of Bihar in India”.

3. Salient Engineering Features of the project :

The salient engineering features of the section and standards to be adopted are as under:-

SN	Description	Details
1	Route	DFC alignment between approach of DFC Sone bridge (HWH end) to connection at Chirailapathu station of IR towards HWH, between approach of DFC Sone bridge (HWH end) to connection at New Sonnagar towards Garhwa of IR lines and from Km. 3.16 to Km. 5.38 near Dehri-on-Sone yard.
2	Formation	As per RDSO specifications GE-14.
	Bank width for Double line	13.5m
	Slope Embankment	2:1 (H:V) (minimum)
3	Ruling Gradient	1:200 (compensated)
4	Steepest Gradient in yards	1:1200, 1:400 in exceptional cases with approval of DFCC
5	Curves	
	Maximum degree of curvature	2.5 Degree (700 metre Radius)
	Curve Compensation	@ 0.04% per degree of curvature
	Vertical Curves.	Shall be provided with Radius 4000 metre as per provision of IR P.Way Manual
6	Bridges loading Standards	As per DFC loading (32.5 T Axle load)

7	Track Centres	
	Between two tracks of DFC	6 m (minimum) / 6.25m bet. ML to LL in yards.
	Between Existing IR track and DFC	As per indicative Alignment Plan as a part of Bid document. In general it will be 10 to 15m. Minimum 8m.
8	Moving Dimensions- Vertical Maximum Moving Dimension (MMD)	5.1m
9	Schedule of Dimensions	As per SSOD for EDFC
10	Track Structure	25 T axle loading as per IR standards
11	Gauge	1676 mm
12	Ballast	IRS GE-1 Specifications 350 mm Cushion on M/L 250 mm Cushion on other lines
13	Specifications	Design and Construction Conforming to Indian Railway Standards/DFCCIL standards.

Formation has to be constructed for double line electrified track (2 x 25 KV AC 50 Hz overhead catenary system) capable of operating at a maximum train speed of 100km/h.

Formation, viaduct and bridge structures are to be provided for 32.5 tonnes axle load. Trolley refuses should be provided as per IR standards.

4. Scope of work in brief :

Design and Construction of Formation in Embankments/Cuttings including blanketing, Viaducts, Rail Flyover, Bridges (Major, Minor & RUBs), Supply and Spreading of Ballast and other related infrastructural works for double track electrified railway line on Design Build Lump Sum Basis from Howrah end approach of DFC Sone bridge to Chirailapathu station of IR towards Howrah & to New Sonnagar station towards Garhwa and at Dehri-on-Sone yard from Km. 3.16 to Km. 5.38 in connection with Eastern Dedicated Freight Corridor in the state of Bihar in India as under :

- (i) **Ch. 225.975 (HWH end approach of Sone bridge) to approx Ch. 8460 (connection at New Sonnagar near Bagaha Bishnupur towards Garhwa IR lines) double line track through viaduct on one end (MGS end of RFO), Rail Flyover and embankment towards Garhwa end :**

Work in this section broadly includes Design and Construction of :

- (a) Formation in Embankments/Cuttings including blanketing, drainage etc.,

- (b) Viaduct for double line from approx. Ch. 440 to RFO approach (approx. Ch.2300) on MGS end of RFO,
- (c) Rail Flyover for double line DFC near Ch. 2354 over existing Howrah-Delhi IR lines (Rly Km.547/26-28) and proposed UP DFC line from HWH. Proposed span of RFO is approx. 76 m,
- (d) Major Bridges (1 no.),
- (e) Minor Bridges (16 nos.),
- (f) RUBs (1 no. RCC buried boxes in DFC portion may be provided at LCs which will be detailed in bid document),
- (g) Works at ROB on NH-2,
- (h) Supply and Spreading of Ballast,
- (i) LC and related miscellaneous works at 1 location,
- (j) Station Building at New Sonnagar and other Miscellaneous Works.

Chainage 0.00 refers to Abutment centre at HWH end of DFC Sone Bridge.

Proposed span of Rail Flyover (RFO) is approx. 76m with steel superstructure with suitable approach span (if needed as per design requirements). The RFO is to be constructed over the existing two electrified IR tracks with least disturbance to the running trains on IR lines and adhering all safety norms.

The RFO works shall comprise of but not limited to following :

- i. design, survey including geotechnical investigation, construction, fabrication / manufacture, supply, installation/launching,
- ii. All the temporary works as required for construction of foundations/sub-structure and launching of superstructure, etc.,
- iii. Other miscellaneous works.

(ii) Ch. 225.975 (HWH end approach of Sone bridge) to Ch. 7270 (approx.) (connection at Chirailapathu station of IR towards HWH) double line track (also separate UP & DN tracks near viaduct) on normal height embankment :

Work in this section broadly includes Design and Construction of :

- (a) Formation in Embankments/Cuttings including blanketing, drainage etc.,
- (b) Major Bridges (1 no.),
- (c) Minor Bridges/RUBs (15 nos. for Double Line / UP & DN DFC lines),
- (d) Supply and Spreading of Ballast,
- (e) Construction of DFC Cabin at Chirailapathu / Sonnagar and other Miscellaneous Works.

(iii) Km. 3.16 (MGS end approach of Sone bridge) to Km. 5.38 near Dehri-on-Sone :

Work in this section broadly includes Design and Construction of :

- (a) Formation in Embankments/Cuttings including blanketing, drainage etc.,
- (b) Supply and Spreading of Ballast,
- (c) Dismantling of abundant structures (CRWC warehouse) falling on DFC alignment.

4.1 Summary of Formation & Bridges :

Total Route length	:	17.5 Kms Approx.
Rail Flyover	:	For two tracks near Sonnagar
Viaduct	:	Approx. 1800m length
No. of Major Bridges	:	2 nos.
No. of Minor Bridges/RUBs	:	32 nos
No. of Level crossings	:	1 no.
Qty of supply of Ballast	:	Approx. 100000 Cum (Out of this 1/3 quantity of ballast has to be spread on formation along DFC track alignment and balance has to be stacked at nominated location for the use by track works contractor.

Note :

- i) Ch. '0.00' starts at Mid point of HWH end Abutment of DFC Sone bridge.
- ii) A Major bridge is one which has a total Linear water way of 18m or more or which has a clear opening of 12 linear metres or more in any one span.
- iii) Bridges having lesser span/Linear waterway than as mentioned above in Note (ii) are minor bridges.

- 4.2 The scope of work does not include
- any track work
 - any OHE work

4.3 Testing Commissioning and Interfacing :

Contractor will have to take the overall responsibility for the testing and commissioning of his work and all interfacing issues with other contractors deployed by the Employer on the project.

5. Project Implementation

5.1 The Project involves complete Construction of Formation including Bridges maintaining the same during the defect liability period as mentioned in Bid Document.

5.1.1 The **Construction Period shall be approx. 900 days** (completion period will be specified in the Bid Document) (including Design Period) from the date of award of the contract(s). The Design-Build Contractor shall be required to plan the various components of work in such a sequence that the complete work is constructed in above period from the date of award of contract. This

will be followed by the **Defect Liability Period as specified in the Bidding document.**

- 5.2 CPM/Dy.CPM/DFCCIL will be the Engineer for the Project. Alternatively DFCCIL may appoint the Engineer.
- 5.3 As a part of the Bid Documents, the Pre-qualified Bidders will be provided with Employers Requirements, Preliminary Concept Design, Performance Specifications, indicative drawings like alignment Plan & L-Section, GADs and other available field data.
- 5.4 The Employer's Requirements/Performance Specifications provided as a part of the Bid Documents, specify the procedural requirements for the preparation of the design of the Works, Bridge and Temporary Works.

6.0 Site and Other Data:

6.1 Access to Site:

Access to the Site areas is available through various roads as described below.

- Transportation by road is well developed in Eastern area of India.
- Railway transportation is also well developed in this area.
- Cargos can be transported from Mumbai or Kolkata seaport.
- Airports are located at Delhi, Lucknow, Varanasi, Patna.
- Public telephone facilities are well developed in the project area.
- Mobile phones are also well developed in the project area.
- Internet access is generally available with wire or wireless. Connection speed is depending on service providers.

- 6.2 **Project Area:** The Works will be carried out near Sonnagar, Chirailapathu, Bagaha Bishnupur and Dehri-on-Sone stations of Indian Railway. The proposed alignment will mostly be parallel to IR except at RFO location.

Map showing proposed location is attached as Annexure I.

A sketch showing the alignment is attached as Annexure II.

- 6.3 **Climate:** The climate of the project is a Tropical Monsoon Climate Marked by three distinct seasons:

Summer (March-June): Hot & dry with average temperatures of 45°C sometimes reaching 47-48°C with low relative humidity (20%) and dust laden winds.

Monsoon (June-September): 85% of the average annual rainfall of 990 mm precipitates during this period and temperatures range from 40-45 °C on rainy days.

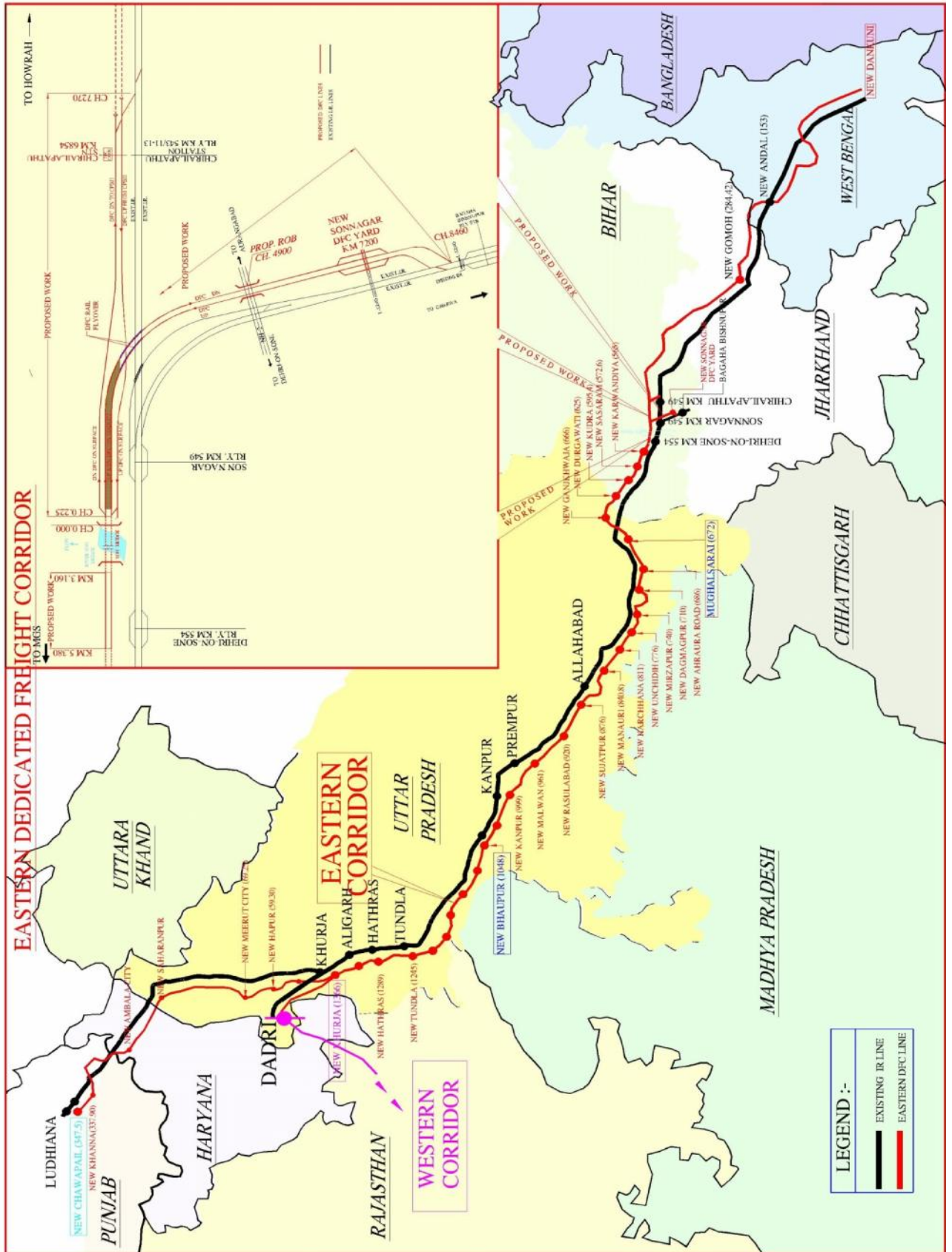
Winter (October-February): Cold with temperatures in the range of 3-4°C sometimes dropping below freezing in elevated areas. Foggy conditions can occur in some tracts.

6.4 Medical Facilities

- General hospitals are available in major cities, such as Varanasi, Sasaram.
- Other hospitals are also available in every city area.

7.0 The details given in the scope of works are only indicative. The work shall be executed as per the detailed scope of work to be specified in the Bid document.

ANNEXURE – I



ANNEXURE – II

