REQUEST FOR BID (RFB)

IL&FS Transportation Networks Limited (ITNL)

Bituminuous overlay works for Patratu Dam – Ramgarh Road (RPR-II) in the State of Jharkhand (under JARDCL) – Length 27.118 Kms

Document downloading date	From 18^{th} October, 2019 (11.00 Hrs) to 31^{st} October, 2019 (11:00 Hrs)				
Last date and time for receipt of Bids	31 st October, 2019 at 11:00 Hrs				
Date and time of opening of Technical Bids	04 th November, 2019 at 15:00 Hrs				
Date and time of opening of Financial Bids	Shall be intimated later				
Place of opening of Bids	IL&FS Transportation Networks Limited The IL&FS Financial Center, Plot C-22, G Block, Bandra Kurla Complex, Mumbai- 400051 Tel.: +91 022-26593693, Facsimile: +91 022-26523979				
Officer Inviting Bids	Mr RaviKumar Praveen IL&FS Transportation Networks Limited The IL&FS Financial Center, Plot C-22, G Block, Bandra Kurla Complex, Mumbai- 400051 Tel.: +91 022-26593693, Facsimile: +91 022-26523979				

1

IL&FS Transportation Networks Limited (ITNL)

BID DOCUMENT

For

Bituminous Overlay & Road Furniture Work for Patratu Dam – Ramgarh Road (RPR-II) in the State of Jharkhand (under JARDCL) – Length 27.118 Kms

Contents

Volume 1

INVITATION FOR BID

Section 1 : Instructions to Bidders

Section 2 : Qualification Information and other forms

Section 3 : Part I - General Conditions of Contract

Part II - Special Conditions of Contract

Section 4 : Contract Data

Section 5 : Specifications

Part I - General Technical Specifications

Part II - Supplementary Technical Specifications

Volume 2

Section 6 : Bill of Quantities for Overlay Works

Section 7 : Forms of Bid and Securities, Acceptance, Agreement and Advance

Payment

VOLUME 1

CONTENTS

INVITATION FOR BID

Section	Description	Page No
1	Instructions to Bidders	5
2	Qualification Information and other Forms	27
3	Part I: General Conditions of Contract	34
	Part II: Special Conditions of Contract	58
4	Contract Data	65
5	Specifications	70
	Part I: General Technical Specifications	71
	Part II: Supplementary Technical Specifications	71-93

IL&FS Transportation Networks Limited (ITNL)

The IL&FS Financial Center, Plot C-22, G Block, Bandra Kurla Complex, Mumbai- 400051 Tel.: +91 022-26533333, Facsimile: +91 022-26523979, E-mail:

Website: www.itnlindia.com CIN: U45203MH2000PLC129790

INVITATION FOR BID

Date: 18th October, 2019

Sub.: Bituminous Overlay & Road Furniture Works for Patratu Dam – Ramgarh Road (RPR-II) in the State of Jharkhand (under JARDCL) – Length 27.118 Kms

Dear Sir,

Please refer NIT dated 18th October, 2019 vide which sealed offline tenders have been invited for the above work.

- M/s IL&FS Transportation Networks Limited (ITNL), hereby invites sealed Bid from contractors for the work of "Bituminous Overlay & Road Furniture Works for Patratu Dam Ramgarh Road (RPR-II) in the State of Jharkhand under Jharkhand Accelerated Road Development Company Ltd (JARDCL) Length 27.118 Kms". The period for completion of the Bituminous Overlay & Road Furniture Works shall be 6 months and while you will be required to maintain the Road for a Defect Liability Period of 12 months thereafter.
- (2) Bidding documents may be downloaded by the contractors, free of cost, from the Employer's web site www.itnlindia.com from October 18, 2019, 11:00 Hrs to October 31, 2019, 18:00 Hrs.
- (3) Bid must be accompanied by Bid Security amounting to Rs 15, 00,000/- [Rupees Fifteen Lakhs Only] in favour of **IL&FS Transportation Networks Limited**, payable at Mumbai. Bid Security shall be in the form as specified in the Bidding Document and shall have to be valid for 45 days beyond the validity of the Bid.
- (4) Bid must be delivered to office of IL&FS Transportation Networks Limited, **The IL&FS Financial Center**, **Plot C-22**, **G Block**, **Bandra Kurla Complex**, **Mumbai- 400051 on or before 1100 Hrs IST on 31st October 10, 2019** by hand or by post/Courier, which will be opened on **04**th **November**, **2019** at 15:00 hours IST, in the presence of the representative of the Bidders who wish to attend. If the office happens to be closed on the date of receipt of the Bids as specified, the Bids will be received and opened on the next working day at the same time and venue.

Signature of Authorised Officer

SECTION 1:

INSTRUCTIONS TO BIDDERS (ITB)

SECTION 1: INSTRUCTIONS TO BIDDERS

CONTENTS

		Page No			Page No
Α	General		D	Submission of Bids	
1	Scope of Works	7	19	Sealing and Marking of Bids	16
2	Source of Funds	8	20	Deadline for Submission of Bids	16
3	Eligible Bidders	8	21	Late Submission of Bids	16
4	Qualification of the Bidder	8	22	Modification and Withdrawal of Bids	17
5	One Bid per Bidder	10			
6	Cost of Bidding	10			
7	Site Visit	10			
			E	Bid Opening and Evaluation	
В	Bidding Documents		23	Bid Opening	18
8	Content of Bidding Documents	11	24	Process to be Confidential	18
9	Clarification on Bidding Documents	11	25	Clarification of Bids	18
10	Amendment of Bidding Documents	11	26	Examination of Bids and Determination of Responsiveness	19
			27	Correction of Errors	19
С	Preparation of Bids		28	Evaluation and Comparison of Bids	19
11	Language of Bid	12			
12	Documents Comprising the Bid	12	F	Award of Contract	
13	Bid Prices	13	29	Award Criteria	21
14	Currencies of Bid and Payment	13	30	Employer's Right to Accept any Bid and to Reject any or all Bids	21
15	Bid Validity	13	31	Notification of Award and Signing of Agreement	21
16	Bid Security	13	32	Performance Security	21
17	Alternative Proposals by Bidders	14	33	Advance Payment	22
18	Format and Signing of Bid	14	34	Corrupt or Fraudulent Practice	22
				Annexures	23-26

A: GENERAL

1. Scope of Works

1.1 The IL&FS Transportation Networks Limited, (hereinafter be referred to as the "Employer") proposes to execute the Bituminous Overlay & Road Furniture Work for Patratu Dam – Ramgarh Road (RPR-II) in the State of Jharkhand hereinafter referred to as the "Overlay Works".

The Overlay Works detailed herein is on Item Rate Contract basis. The indicative scope of work to be carried out by the successful Bidder, inter alia, includes the following but not limited to:

- (i) Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor
- (ii) Providing and laying bituminous concrete with thickness of 40mm of VG-40 with 100-120 TPH batch type hot mix plant.
- (iii) Thermoplastic Road Marking
- (iv) Road Marking Arrows
- (v) Road Studs/Cat eyes

(a) <u>Defect Liability:</u>

(i) Subsequent to completion of the Works, Contractor shall be responsible for any defect arising in the executed work for a period of 12 Months from the Overlay works Completion Date as specified in the Contract Data.

The successful Bidder shall have full regard and be responsible for the safety of the Overlay Works/road users and all Project Site operations and for all methods of design for temporary structures, construction and maintenance of the Project Road and the Facility, irrespective of any approval or consent by the Employer and cost for the same is deemed to be included in the Bid Price, as incidental to work.

The successful Bidder shall take full responsibility for operation and maintenance of the existing road and facilities thereto and for Traffic and Safety Control, in accordance with Annexure–5B of Supplementary Technical Specifications of Section 5 from the Start Date. The cost of maintenance of the road, Barricading, traffic management, markings and signs, look-out persons, construction of temporary cross-drainage and road diversion works, and other similar works needed during implementation of Overlay works are deemed to be included by the Bidder in the Bid Price, as incidental to work.

The successful Bidder shall carry out his activities in connection with the Contract in such a manner so as to comply with the Environmental Management Plan in accordance with Annexure–5A of Supplementary Technical Specifications, Section 5 of Specifications and shall assume full responsibility for measures which are required to ensure such compliance and cost for the same is deemed to be included in the Bid Price, as incidental to work.

- The Employer is now inviting bids for Bituminous Overlay Work for Patratu Dam
 Ramgarh Road (RPR-II) in the State of Jharkhand as defined in the Contract Data and referred to as "Works".
- 1.3 The successful Bidder will be expected to complete the Overlay works by the Date as specified in the Contract Data and thereafter responsible for the defects for a period of one year.

2. Source of Funds

Deleted.

3. Eligible Bidders

3.1 All the Contractors who will produce the certificate that they have successfully completed following quantities in any one of the Financial Year during last 3 years are eligible to bid.

Sr. No	Item Description	Unit	Quantities executed	
1	Bituminous Concrete Work (BC)	Cum	10,370	

- 3.2 Bidder should have turnover of Rs.15 Cr for participation in Bid in any one of the Financial Year during last 3 years.
- 3.3 Bidders should not have abandoned any of their contracts for, and should not be under a declaration of ineligibility or blacklisted for corrupt, fraudulent and coercive practices or poor quality/ delayed implementation of any work by the Government of India (GoI), Government of Jharkhand (GoJ), other State Governments, JARDCL/ITNL/Developer and/or Statutory Authorities like National Highways Authority of India (NHAI).
- 3.4 Bidder should have operational hot mix plant of batch type having minimum 100 TPH capacity in Project vicinity

4. Qualification of the Bidder

- 4.1 Bidders should submit, with their Bids, qualification information regarding the Road/Highway Works completed by them as defined in clause 3.1 & 3.2 and other information correct as on 28 days prior to last date of submission of Bids as per Form 2A, Qualification Information and Other Forms of Section 2.
- 4.2 All Bidders shall also include the following information and documents with their Bids in the formats prescribed, wherever applicable, in this Bidding Document:
 - (a) the certificate that they have successfully completed the quantities defined in clause 3.1 in any one of the Financial Year during last 3 years; either in the same project or any other completed projects.
 - (b) the certificate that they have turnover of 15 Cr for participation in Bid in any one of the Financial Year during last 3 years.
 - (c) written Power of Attorney authorizing the signatory of the Bid;
 - (d) latest Income Tax clearance certificate from the concerned department;
 - (e) major items of construction equipment proposed to carry out the Contract; {as per Clause 4.4 (a)}

- (f) names of persons with sufficient qualifications and experience for site management and construction work should be proposed for the Project {as per Clause 4.4 (b)};
- (g) an undertaking confirming the validity of above information
- (h) deleted
- (i) Information regarding any litigation or arbitration resulting from contracts executed by the Bidder in the last five years or currently under execution. The information shall include the names of the parties concerned, the disputed amount, duration of dispute, cause of litigation, matter in dispute and other relevant details; the Bidders shall also submit the information regarding debarring / expelling of Bidder or abandonment of work by Bidder (as per S. Nos. 1.4 & 1.5 of Form 2A of Section 2);
- (j) deleted
- (k) the proposed methodology and program of construction including Environment and Traffic Management Plans (barricading etc.), backed with equipment and resources planning and deployment, duly supported with broad calculations and quality control procedures proposed to be adopted, justifying the execution and completion of the Work as per Contract Specifications within the stipulated period of completion. The Bidder shall also submit his proposed Works Program and Monthly Cash Flow Forecast in forms at Annexures 3A and 3B, respectively;
- (I) Any certification for the above information (Employer/Auditor/any other) shall be submitted in original form.
- (m) Any true copies of documents/certificates shall be submitted duly attested or notarised by public notary.
- 4.3 Joint Venture (JV) is not allowed.

4.4 Each Bidder shall demonstrate:

- (a) Availability of key construction equipment as minimum required is indicated in the Schedules at Annexures–1A. The equipment can be either owned or leased or rented. However, it is entirely the responsibility of the Contractor to deploy sufficient Plant and Equipment to ensure satisfactory compliance with his obligations under the Contract, during the execution of Overlay Works at the Site.
 - All Equipment provided by the Contractor at the site of Works shall be of the quality and capacity as approved by the Employer and shall be deemed to be exclusively intended for the execution of the Works, and all these shall be operated, used and maintained in a manner acceptable to the Employer.
- (b) Availability of key personnel as stated at Annexures–1C and 1D. However, it is entirely the responsibility of the Contractor to deploy sufficient key personnel at his head office and at the site, to ensure satisfactory compliance with his obligations under the Contract.
- (c) Deleted
- 4.5 Even though the Bidders meet the criteria set out above, they are subject to be declared non-responsive if they have:
 - (a) made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or

- (b) record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.; and/or
- (c) have been black listed by any Statutory Agency/Employer during the intervening period between qualification and award of Works; and/or
- (d) participated in bidding for any work and has quoted unreasonably high bid prices and could not furnish rational justification to the Employer.

5. One Bid per Bidder

5.1 Each Bidder shall submit only one Bid for the work.

6. Cost of Bidding

6.1 The Bidder shall bear all costs associated with the preparation and submission of his Bid, and the Employer will in no case be responsible and liable for those costs.

7. Site visit

7.1 The Bidder, at the Bidder's own responsibility and risk is encouraged to visit and examine the site and its surroundings and obtain all information that may be necessary for preparing the Bid and entering into a contract for the Works. The costs of visiting the site shall be at the Bidder's own expense and no claim shall be eligible in this regard.

B: BIDDING DOCUMENTS

8. Content of Bidding Document

8.1 The set of Bidding Documents consist of documents listed in the Table below and amendment/addenda issued in accordance with Clause 10 of this Section. A copy of Section 6 (Bill of Quantities), will be available along with the Bidding Documents to the Bidders to facilitate the Bidder to submit the copy of the duly filled Bill of Quantities.

	Invitation for Bid					
Section 1						
Section 2	Qualification Information and Other Forms					
Section 3	Part-I : General Conditions of Contract					
	Part–II : Special Conditions of Contract	Volume 1				
Section 4	Section 4 Contract Data					
Section 5	Section 5 Specifications					
	Part – I : General Technical Specifications					
	Part – II : Supplementary Technical Specifications					
Section 6	Bill of Quantities	Volume 2				
Section 7	Securities and Other Forms					

8.2 One copy of each of the Volumes 1 and 2 can be downloaded from the site. Documents to be furnished by the Bidder should be in the formats prescribed in Sections 2, 6 and 7 of the Bid Document and addendum issued pursuant to Clause 10

9. Clarification on Bidding Documents

- 9.1 A Bidder requiring any clarification of the Bidding Documents may notify the Employer in writing through post, fax or e-mail at the Employer's address indicated in the Invitation to Bid. The Employer will respond to any request for clarification which he has received at least 3 days before the last date for receipt of Bids. Copies of the Employer's response will be uploaded on the web site at www.itnlindia.com.
- 9.2 Any modification of the Bidding Documents listed in Clause 8.1 which may become necessary as a result of the clarification given to Bidders shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause 10.

10. Amendment of Bidding Documents

- 10.1 Before the deadline for submission of bids, the Employer may modify the Bidding Documents by issuing addenda.
- 10.2 Any addendum thus issued shall be part of the Bidding Documents and shall be communicated at the Employer's web site. All such addenda shall become an integral part of the Bidding Document and it shall be incorporated in Bid prices and duly signed, stamped and submitted along with the Bid documents. Bid shall be deemed to be incomplete if the addendum (addenda) is (are) not enclosed duly signed by the Bidder along with the Bid documents.

C: PREPARATION OF BIDS

11. Language of the Bid

11.1 All documents relating to the Bid shall be in the English language.

12. Documents Comprising the Bid

12.1 The Bid submitted by the Bidder shall comprise the following:

Outer envelope marked as per Sub Clause 19.2 in two sets as "ORIGINAL" and "COPY".

In outer envelopes (ORIGINAL and COPY) the following two inner envelopes marked (I) and (II) along with the other information/materials and bearing identification and address as per Sub Clause 19.2.

Envelope (I) – marked as Bid security and qualification information

- (a) Bid Security in prescribed Form 7B of Section 7.
- (b) Qualification Information Form/certificates, undertaking etc. (in prescribed Forms 2A, 2B and 2C of Section 2).

Envelope (II)- marked as Form of Bid and Priced Bill of Quantities

- (c) The Form of Bid (in prescribed Form 7A of Section 7). The Form of Bid needs to be submitted with bid amount in paragraph 1. (Preferably on letterhead of the Bidder).
- (d) Bill of Quantities, needs to be on letterhead of the Bidder. Priced Bill of Quantities for Overlay works is specified in Section 6 (Annexure-1). The same needs to be submitted inclusive of GST and in line with clause 13

And any other material required to be submitted by Bidders in accordance with these Instructions to Bidders. The documents listed under Sections 2, 6 and 7 of Sub Clause 8.1 shall be filled in without exception.

- 12.2 The Bidder shall submit the Bids in two separate envelopes. One envelope marked (I) shall have submissions as per Sub Clause 12.1 (a) and (b). The second envelope marked (II) shall contain submissions as per Sub Clause 12.1 (c) and (d). The Bidder shall prepare two copies of each of these submissions, marking them "ORIGINAL" and "COPY" respectively, which shall be sealed and put in a covered envelope in accordance with the Sealing and Marking instructions in Clause 19.
- 12.3 Following documents needs to be duly signed, stamped and submitted along with the Bid, which will be deemed to be part of the Bid:

Invitation for Bids

Section 1 Instructions to Bidders

Section 3 General Conditions of Contract and Special

Conditions of Contract

Section 4 Contract Data Section 5 Specifications

13. Bid Prices

- 13.1 The Contract shall be for the Works as described in Contract Data, based on the priced Bill of Quantities for Overlay Works submitted by the Bidder in prescribed Bid Form 7A of Section 7 and Annexure-1 of Section 6.
- 13.2 The Bidder shall fill in rates and prices and line item total (both in figures and words) for all items of the Overlay Works described in the **Bill of Quantities** along with total Bid Price (both in figures and words). Items for which no rate or price is entered by the Bidder will not be paid by the Employer when executed and shall be deemed to be covered by the other rates and prices in the Bill of Quantities. Corrections, if any, shall be made by crossing out, rewriting and initialing, in ink.
- 13.3 All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause shall be included in the rates, prices and total Bid Price submitted by the Bidder.
- 13.4 Deleted

14. Currencies of Bid and Payment

14.1 The unit rates and the prices shall be quoted by the Bidder entirely in Indian Rupees, and payment shall be made in Indian Rupees.

15. Bid Validity

- 15.1 Bids shall remain valid for a period not less than one hundred and twenty (120) days after the deadline date for Bid submission, specified in Clause 20. **A bid valid for a shorter period shall be rejected by the Employer as non-responsive.**
- 15.2 In exceptional circumstances, prior to expiry of the original time limit, the Employer may request the Bidders to extend the period of validity for a specified additional period. The request and the Bidders' responses shall be made in writing or by email. A Bidder may refuse the request without forfeiting his Bid security. A Bidder agreeing to the request will not be required or permitted to modify his Bid but will be required to extend the validity of his Bid security for a period of the extension, and in compliance with Clause 16 in all respects.

16. Bid Security

- 16.1 The Bidder shall furnish, as part of his Bid, a Bid Security for an amount mentioned in Invitation for Bid. This Bid Security shall be in favour of "IL&FS Transportation Networks Limited" Payable at Mumbai and may be in one of the following forms:
 - A Bank Guarantee, in the prescribed format is acceptable from the following institutions located in India:
 - (a) State Bank of India or its subsidiaries;
 - (b) Any Indian Nationalized /Scheduled Bank;
 - (c) IDBI Bank or Axis Bank or ICICI Bank or HDFC Bank or Yes Bank; or
 - (d) Foreign Bank with operations in India provided the net worth in respect of the Indian operations shall not be less than Rs 500 crores as per

the latest Annual Report of the Bank and that Bank Guarantee is issued by a branch in India.

- Bankers' cheque or Demand draft in favour of "IL&FS Transportation Networks Limited" payable at Mumbai.
- 16.2 Bank guarantees issued as surety for the Bid should be valid for 45 days beyond the validity of the Bid.
- 16.3 Any Bid not accompanied by an acceptable Bid Security and not secured as indicated in Sub Clauses 16.1 and 16.2 shall be rejected by the Employer as non-responsive.
- 16.4 The Bid Security of unsuccessful Bidders other than the evaluated responsive lowest three Bidders will be returned within 30 days of the completion of the Bid evaluation process and within the bid validity period, specified in Sub Clause 15.1. The Bid Security of two of the lowest three Bidders, other than the Successful Bidder, shall be returned after signing of the Contract Agreement with the Successful Bidder.
- 16.5 The Bid Security of the Successful Bidder will be discharged when the Bidder has furnished the required Performance Security and signed the Contract.
- 16.6 The Bid Security may be forfeited
 - (a) if the Bidder withdraws the Bid after Bid opening during the period of Bid Validity;
 - (b) if the Bidder does not accept the correction of the Bid Price, pursuant to Clause 27; or
 - (c) in the case of a Successful Bidder, if the Bidder fails within the specified time limit to
 - (i) furnish the required Performance Security, and/or
 - (ii) sign the Contract.

17. Alternative Proposals by Bidders

17.1 Conditional offers or alternative proposals will not be considered.

18. Format and Signing of Bid

- 18.1 The Bidder shall prepare one original and one copy of the documents comprising the Bid as described in Clause 12, and clearly marked "ORIGINAL" and "COPY" as appropriate. In the event of discrepancy between them, the original shall prevail.
- 18.2 The original and copy of the Bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder, pursuant to Sub Clauses 4.2 and 4.3. All pages of the Bid where entries or amendments have been made shall be initialed by the person or persons signing the Bid.
- 18.3 The Bid shall contain no alterations or additions, except those to comply with instructions issued by the Employer, or as necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the authorized signatory.

- 18.4 The Bidder shall furnish information as described in the Form of Bid (in Form 7A of Section 7) on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.
- 18.5 Deleted

D: SUBMISSION OF BIDS

19. Sealing and Marking of Bids

- 19.1 The Bidder shall seal the original and copy of the Bid together with the soft copy duly filled in separate envelopes as described in Sub Clause 12.2, duly marking the envelopes as "ORIGINAL" and "COPY". Envelope (II) shall be only submitted in hardcopy/physical form. These envelopes (called as inner envelopes) shall then be put inside one outer envelope.
- 19.2 The **outer** and two **inner** (marked (I) and (II)) envelopes shall
 - (a) be addressed to the Employer at the following address:

IL&FS Transportation Networks Limited

The IL&FS Financial Center, Plot C-22, G Block, Bandra Kurla Complex, Mumbai- 400051

and

(b) bear the following identification:

Bituminous Overlay & Road Furniture works for Patratu Dam – Ramgarh Road (RPR-II) in the State of Jharkhand (under JARDCL) – Length 27.118 Kms

DO NOT OPEN ON OR BEFORE 1500 Hrs IST 04th November, 2019

- 19.3 In addition to the identification required in Sub Clause 19.2, the outer & inner envelopes shall indicate the name and address of the Bidder to enable the Bid to be returned unopened in case it is declared late, pursuant to Clause 21.
- 19.4 If the outer envelope is not sealed and marked as above, the Employer will assume no responsibility for the misplacement or premature opening of the Bid.

20. Deadline for Submission of the Bids

- 20.1 Completed Bids must be received by the Employer at the address specified above no later than **1100 Hrs IST on 31**st **October, 2019.** In the event of the specified date for the submission of Bids being declared a holiday for the Employer, the Bids will be received up to the appointed time on the next working day.
- 20.2 The Employer may extend the deadline for submission of Bids by issuing an amendment in accordance with Clause 10, in which case all rights and obligations of the Employer and the Bidders previously subject to the original deadline will then be subject to the new deadline.

21. Late Submission of Bids

21.1 Any Bid received by the Employer after the deadline prescribed in Clause 20 will be returned unopened to the Bidder.

22. Modification and Withdrawal of Bids

- 22.1 Bidders may modify or withdraw their Bids by giving notice in writing before the deadline prescribed in Clause 20.
- 22.2 Each Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and delivered in accordance with Clauses 18 and 19, with the outer and inner envelopes additionally marked "MODIFICATION" or "WITHDRAWAL", as appropriate.
- 22.3 No Bid may be modified after the deadline for submission of Bids.
- 22.4 Withdrawal or modification of a Bid between the deadline for submission of Bids and the expiration of the original period of Bid validity specified in Clause 15.1 or as extended pursuant to Clause 15.2 may result in the forfeiture of the Bid security pursuant to Clause 16.
- 22.5 Bidders may offer discount or modify the prices of their Bids only by submitting Bid modifications in accordance with this clause or included in the original Bid submission.

E: BID OPENING AND EVALUATION

23. Bid Opening

- 23.1 The Employer will open all Bids received (except those received late), including modifications made pursuant to Clause 22, in the presence of the Bidders or their representatives who choose to attend at the time, date and place specified in Clause 20. In the event of the specified date of Bid opening being declared a holiday for the Employer, the Bids will be opened at the appointed time and place on the next working day.
- 23.2 Envelopes marked "WITHDRAWAL" shall be opened and read out first. Bids for which an acceptable notice of withdrawal has been submitted pursuant to Clause 22 shall not be opened. Subsequently all envelopes marked "MODIFICATION" shall be opened and the submissions therein read out in appropriate detail.
- 23.3 The Employer will open the outer envelope of all the Bids received for the Overlay works (except those received late). Subsequently, **envelope** marked **(I)** containing **Bid security and qualification information** as per Sub Clause 12.1 (a) and (b) shall be opened for all the Bidders.
- 23.4 On confirming the Bid security, **envelope** marked **(II)** containing **the Form of Bid and priced Bill of Quantities** as per Sub Clause 12.1 (c) and (d) shall be opened for all the Bidders. The Bidder's names, the Bid prices, the total amount of the Bid, any discounts, Bid modifications and withdrawals, the presence or absence of Bid security, and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening. Determination of the lowest Bidder shall be done after evaluation of the Bids as per terms of the Bid Document.
- 23.5 No bid shall be rejected at bid opening except for late bids pursuant to Clause 21 and conditional bids. Bids (and modifications) sent pursuant to Clause 22 that are not opened and read out at bid opening will not be considered for further evaluation regardless of the circumstances. Late and withdrawn bids will be returned un-opened to Bidders.

24. Process to be Confidential

24.1 Information relating to the examination, clarification, evaluation, and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process until the award to the Successful Bidder has been announced.

25. Clarification of Bids

25.1 To assist in the examination, evaluation, and comparison of Bids, the Employer may, at his discretion, ask any Bidder for clarification of his Bid, including breakdowns of all the unit rates. The request for clarification and the response shall be in writing or by email, but no change in the price or substance of the Bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids in accordance with Clause 27. In case any Bidder refuses to furnish any clarification sought by the Employer, which may affect his Bid Price, then his bid shall be liable to be treated as non-responsive.

- 25.2 Subject to Sub Clause 25.1, no Bidder shall contact the Employer/its representatives on any matter relating to the Bid from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Employer, he shall do so in writing.
- 25.3 Any effort by the Bidder to influence the Employer in the Employer's bid evaluation, bid comparison or contract award decisions may result in the rejection of the Bidder's Bid.

26. Examination of Bids and Determination of Responsiveness

- During the detailed evaluation of Bids, the Employer will determine whether each Bid (a) meets the eligibility criteria defined in Clauses 3 and 4, (b) has been properly signed; (c) is accompanied by the required securities, and (d) is substantially responsive to the requirements of the Bidding documents.
- A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the Works; (b) which limits in any substantial way, inconsistent with the Bidding Documents, the Employer's rights or the Bidder's obligations under the Contract; or (c) whose rectification would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.
- 26.3 If a Bid is not substantially responsive, it will be rejected by the Employer, and shall not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

27. Correction of Errors

- 27.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:
 - (a) where there is a discrepancy between the rates in figures and in words, the rate in words will govern; and
 - (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.
 - (c) in case different rates are furnished in different sections of the Bill of Quantities for the same item, then the lowest rate for the item shall prevail for all the places where the item is appearing.
- 27.2 The amount stated in the Bid will be corrected by the Employer in accordance with the above procedure for the Correction of Errors and, with the concurrence of the Bidder. Such adjusted Bid Price shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, the Bid will be rejected and the Bid Security may be forfeited in accordance with Sub Clause 16.6 (b).

28. Evaluation and Comparison of Bids

28.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause 26.

- 28.2 In evaluating the Bids, the Employer will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:
 - (a) making any correction for errors pursuant to Clause 27; or
 - (b) making an appropriate adjustment for any other acceptable variations, deviations; and
 - (c) making appropriate adjustments to reflect discounts or other price modifications offered in accordance with Sub Clause 22.5.
- 28.3 The Employer reserves the right to accept or reject any variation, deviation, or alternative offer. Variations, deviations, and alternative offers and other factors which are in excess of the requirements of the Bidding documents or otherwise result in unsolicited benefits for the Employer shall not be taken into account in Bid evaluation.

28.4 Deleted

28.5 If the Bid of the successful Bidder is unbalanced in relation to the Employer's estimate of the cost of work to be performed under the Contract, the Employer may require the Bidder to produce detailed rate analysis for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those rates with the construction methods and schedule proposed. After evaluation of the rate analysis, the Employer may require that the amount of the performance security set forth in Clause 32 be increased at the expense of the successful Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the Successful Bidder under the Contract.

F: AWARD OF CONTRACT

29. Award Criteria

29.1 Subject to Clause 30, the Employer will award the Contract to the Bidder whose Bid has been determined to be substantially responsive to the Bidding documents and who has offered the lowest evaluated Bid Price, provided that such Bidder has been determined to be (a) eligible in accordance with the provisions of Clause 3, and (b) qualified in accordance with the provisions of Clause 4.

30. Employer's Right to accept any Bid and to reject any or all Bids

30.1 Notwithstanding Clause 29, the Employer reserves the right to accept or reject any Bid, and to cancel the Bidding process and reject all Bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Employer's action.

31. Notification of Award and Signing of Agreement

- 31.1 The Bidder whose Bid has been accepted will be notified of the award by the Employer prior to expiration of the Bid validity period by email, telex or facsimile, and confirmed by letter. This letter (hereinafter and in the Conditions of Contract called the "Letter of Acceptance") (Form 7C of Section 7) will state the sum that the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").
- 31.2 The notification of award through the Letter of Acceptance will signify the intention of the Employer to enter into a contract, subject to the furnishing of a Performance Security by the Bidder in accordance with the provisions of Clause 32.
- 31.3 The Agreement (Form 7F of Section 7) will incorporate all clarifications sought and submitted, and all agreements between the Employer and the Successful Bidder. It will be signed by the Employer and kept ready in his office for signatures of the Successful Bidder within 21 days following the issue of the Letter of Acceptance.
- 31.4 The stamp duty and all applicable registration charges, taxes etc necessary for the execution of Contract agreement shall be borne by the Successful Bidder.
- 31.5 Upon furnishing of the Performance Security by the successful Bidder, the Employer will promptly notify the other Bidders that their Bids have been unsuccessful and refund their bid security.

32. Performance Security

- 32.1 Within 14 days of receipt of the Letter of Acceptance, the successful Bidder shall deliver to the Employer a Performance Security in the form of an unconditional Bank Guarantee for an amount equivalent to 5% of the Contract Price for Overlay works, in accordance with Clause 28.5 of ITB. The Bank Guarantee, in the prescribed format (Form 7B of Section 7), is acceptable from the following institutions located in India:
 - (a) State Bank of India or its subsidiaries;
 - (b) Any Indian Nationalized /Scheduled Bank;
 - (c) IDBI Bank or Axis Bank or ICICI Bank or HDFC Bank or Yes Bank; or

(d) Foreign Bank with operations in India provided the net worth in respect of the Indian operations shall not be less than Rs 500 crores as per the latest Annual Report of the Bank and that Bank Guarantee

The Performance Security for Overlay works shall be valid for 45 days beyond a period of 12 months after Overlay Works Completion Date.

32.2 Deleted

32.3 Failure of the successful Bidder to comply with the requirements of Sub Clause 32.1 shall constitute sufficient grounds for cancellation, cause for annulment of the award, forfeiture of the Bid Security and any such other remedy the Employer may take under the Contract, and the Employer may resort to awarding the Contract to any other evaluated Bidder.

33 Advance Payment

33.1 The Employer will provide an interest free Advance Payment on the Contract Price to the Contractor, as per Clause 47 of General Conditions of Contract (Section 3) subject to a maximum amount as stated in Contract Data.

34. Corrupt or Fraudulent Practices

- 34.1 The Employer requires that the Bidders/Contractors, observe the highest standard of ethics during the procurement and execution of the Contracts. In pursuance of this policy, the Employer:
 - (a) defines, for the purposes of this provision, the terms set forth below:
 - (i) "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of Employer/its representatives in the procurement process or in contract execution;
 - (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Employer, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish Bid Prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition;
 - (iii) "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of the Contract.
 - (b) will reject a proposal for award if the Employer determines that the Bidder recommended for award has engaged in corrupt, fraudulent or coercive practices in competing for the contract in question;
 - (c) will declare a firm ineligible, either indefinitely or for a stated period of time, if the Employer at any time determines that the firm has engaged in corrupt, fraudulent or coercive practices in competing for, or in executing, contracts.

Schedule of Minimum Key Construction Plant and Equipment required to be mobilized by Contractor for Overlay works

S. No.	Type of Equipment	Plant & Equipment Nos.
1	Batch Type Hot Mix plant (100-120 tons per Hr)	1
2	Sensor Paver finisher (9Mtr Width)	1
3	Generator (250 KVA)	1
4	Front End Loader (1 Cum bucket capacity)	1
5	Tipper (10 Ton Capacity)	7
6	Smooth Wheeled Tandem Roller	2
7	7 Air Compressor (250 cfm Capacity)	
8	Emulsion Pressure Distributor (1750 sqm/hr)	1
9	Pneumatic Tyred Roller	1

Note: The bidder must produce the documentary evidence in support of his owning/leased/ rented of the above equipment. In case the bidder proposes to hire or take the above equipment on lease, he should, along with the lease/rent agreement, attach the proof of ownership of these equipment with the company/ entity from whom the equipment are proposed to be hired on lease/ rent.

DELETED

Details of Minimum Key Personnel required to be mobilized by Contractor for Overlay works

S No	Position	Minimum Qualification & Experience	Nos.
1	Project Manager	B.E. (Civil) with 8 years or Diploma civil with 10 years' experience	1
2 Highway Engineer		B.E. (Civil) with 5 years or Diploma civil with 7 years' experience	1
Planning 3 Engineer/Quantity Surveyor		B.E. (Civil) with 3 years' experience	1
4	Quality Control Engineer	B.E. (Civil) with 5 years or Diploma civil with 7 years' experience	1

DELETED

SECTION 2:

QUALIFICATION INFORMATION AND OTHER FORMS

Table of Forms	Description	Page No
Form 2A	Qualification Information	28-30
Form 2B	Undertaking confirming evidence of access or availability of credit facilities	31
Form 2C	Letter from bidder to bankers authorizing them to provide information to IL&FS Transportation Networks Limited/Its Representatives	32

QUALIFICATION INFORMATION

The information to be filled in by the Bidder in the following pages will be used for purposes of the Qualification Information as mentioned in Clause 4 of the Instructions to Bidders. (Separate pages with required details shall be attached)

1. D	etails of	Bidder
------	-----------	--------

Name of Bidder/ Address/ Telephone/ Fax/ Email/ Contact Person and Designation

1.1 Constitution or legal status of Bidder [Attach copy]

Place of registration:	
Principal place of business:	
Power of attorney in favor of signatory of Bid	(Attach copy)
Constitution/Incorporation Documents such as of Association, Partnership Deed etc (Attach C	•

1.2 Availability of Contractor's Equipment should be listed below for carrying out the Works. Contractor is to fill the following items regarding the availability of Equipment. The minimum requirement is available at Clause 4.4 (a) of ITB.

		Minimum Requirement		Availability proposals				
	Item of equipment	No	Capacity	Nos Capacity Condition Owned/ Leased/ to be procured		Remarks / Make		

1.3 Qualifications and experience of key personnel proposed for administration and execution of the Contract. Attach biographical data. Refer also to Sub Clauses 4.4 (b) of Instructions to Bidders and Sub Clause 9.1 of the General Conditions of Contract.

					Years of experience		
S No	Position	Name	Qualification	Years of experience (general)	In similar capacity	In similar nature of works (Roads)	

1.4 Information on litigation history in which the Bidder is involved {Refer ITB Clause 4.2 (i)}-

Item Head	Litigation 1	Litigation 2
Name of Client		
Month/Year of origin		
Cause of Litigation/ Matter in Dispute		
Disputed Amount (Current Value in Indian Rupees)		
Resolved or pending resolution		
Award For or Against		
Actual Amount Awarded (Current Value in Indian Rupees)		
Other Claims Made, Settled/ Rejected		

1.5 Information regarding current litigation, debarring / expelling of bidder or abandonment of work by bidder; {(Refer ITB Clause 4.2 (i)}

1	(a)	Has the Bidder or its constituent partners a history of litigation/arbitration	Yes/No
	(b)	If yes, give details	
2	(a)	Has the Bidder or any of its constituent partners been debarred/expelled by any Agency in India, during the last 5 years as on the date of application	Yes/No
	(b)	If yes, give details	
3	(a)	Has the Bidder or any of its constituent partners abandoned any contract work in India during the last 5 years	Yes/No
	(b)	If yes, give details	
4	(a)	Has the Bidder or any of its constituent partners been declared	Yes/No
		bankrupt during the last 5 years	
	(b)	If yes, give details, including present status	

Note: If any information in this schedule is found to be incorrect or concealed, at any time including after the award of Overlay Works, the Bidder's Bid will be treated as non-responsive, and action taken accordingly.

1.6 (A) Work performed as prime contractor/sub-contractor, work performed in the past as a nominated/approved sub- contractor provided further that all other qualification criteria are satisfied (in the same name) of a similar nature during the last 3 years.

	act o your	<u> </u>							
Project Name	Name of the Employer	Descript ion of work	Contract No.	Quantity Executed Total/Year -wise	Value of Contract (Rs. Crore)	Date of issue of work order	Stipulated period of completion	Actual date of completion *	Remarks explaining reasons for delay
Bid Documer	t/Overlay Wor	ks/ITNLRPR-i	I/Volume 1						29

Information on works in progress and works likely to be awarded.

(B) Current Commitments and Works in Progress

SI	Description	Place	Name of	Contract	Value of	Stipulated	Value of	Value of	Anticipated	Role of
No	of Work	&	the	No. and	Contract	Period of	works	Works	Completion	Applicant*
		State	Employer	Date	(Rs	Completion	completed	Remaining	Date	and
					Crores)	Date	(Rs	to be		Remarks
					@		Crores)	Completed		
							@	(Rs Crores)		
								`@		
	TOTAL									

Χ

(C) Contracts for which Bids already submitted and are likely to be awarded

SI No	Description of Work	Place & State	Name of the Employer	Estimated Value of Contract (Rs Crores) @	Stipulated Period of Completion	Date when Decision is expected	Role of Applicant* and Remarks
	TOTAL						

Note:

- ②: In case of currencies other than Indian Rupees, please indicate the value of works in the original currency as well as Indian Rupees and also the exchange rate assumed.
- * : Specify whether works were executed as Main Contractor, EPC Contractor, and Sub-Contractor or as JV Partner, along with their share.

1.6.1. Suitable certification from Employers to be necessarily attached as part of this Appendix.

1.7 Turnover for last 3 financial years

SI No	Financial Year	Turnover in Rs Cr
1		
2		
3		

Suitable certification from Statutory Auditor/Chartered Accontant to be necessarily attached as part of this Appendix.

2. Deleted

SAMPLE FORMAT FOR EVIDENCE OF ACCESS TO OR AVAILABILITY OF CREDIT FACILITIES

Deleted

SAMPLE FORMAT FROM BIDDER TO BANKERS AUTHORISING THEM TO PROVIDE INFORMATION TO IL&FS TRANSPORTATION NETWORKS LIMITED / ITS REPRESENTATIVES

To Name of Bank/Address/City
Dear Sirs:
We have recently submitted a Bid to IL&FS Transportation Networks Limited for
implementing the Works "Bituminous Overlay & Road Furniture Work for Patratu Dam
- Ramgarh Road (RPR-II) in the State of Jharkhand (under JARDCL) - Length
27.118 Kms" We hereby authorize you to provide all information/data readily about us and
our credit status, as may be required by IL&FS Transportation Networks Limited and you
need not seek any clearance/opinion from us for providing the information/data to IL&FS
Transportation Networks Limited and/or its authorized representatives.
Sincerely,
Authorised Signatory

SECTION 3:

Part No	Description	Page no
Part I	General conditions of contract	34 - 57
Part II	Special Conditions of Contract	58 - 64

SECTION: 3

PART - I: GENERAL CONDITIONS OF CONTRACT

Table of Contents

		Page No.			Page No.
Α	General		С	Quality Control	
1	Definitions	37	30	Identifying Defects	48
2	Interpretation	39	31	Tests	48
3	Language and Law	39	32	Correction of Defects	48
4	Employer's Duties and Employer	39	33	Uncorrected Defects	48
5	Delegation	39	D	Cost Control	
6	Communication	39	34	Bill of Quantities	49
7	Subcontracting	40	35	Changes in the Quantities	49
8	Other Contractors	40	36	Variations	49
9	Personnel	40	37	Payments for Variations	49
10	Employer's & Contractor's Risks	40	38	Cash Flow Forecasts	50
11	Employer's Risks	41	39	Payment Certificates	50
12	Contractor's Risks	41	40	Delayed & Disputed Payments	51
13	Insurance	41	41	Compensation Events	51
14	Contractor to Construct the Works and Works to be Completed by Contract Completion Date	42	42	Tax	51
15	Safety, Security and Protection of the Environment	42	43	Currencies	51
16	Working Drawings	42	44	Change in Cost and Legislation	51
17	Approval by the Employer	43	45	Liquidated Damages and Penalty	52

18	Safety of Traffic	43	46	Deleted	52
19	Discoveries	43	47	Advance Payment	52
20	Possession of the Site	43	48	Securities	53
21	Access to the Site	43	49	Cost of Maintenance	53
22	Instructions	44	Ε	Finishing the Contract	
23	Disputes	44	50	Completion	54
24	Procedure for Disputes – Arbitration	44	51	Taking Over	54
В	Time Control		52	Final Account	54
25	Program	45	53	As Built Drawings and Maintenance Manuals	55
26	Extension of the Overlay works Completion Date	45	54	Termination	55
27	Delays Ordered by the Employer	46	55	Payment upon Termination	56
28	Management Meetings	46	56	Property	56
29	Early Warning	47	57	Release from Performance	56
			58	Details to be Confidential	57
			59	Life-saving Appliances and First-aid Equipment	57

SECTION: 3

PART - II: SPECIAL CONDITIONS OF CONTRACT

Table of Contents

		Page No			Page No
Α	General Clauses		D	Evaluation of Service Quality Levels of Maintenance Works	
1	Labour	58	13	Deleted	62
2	Statutory Clearances	58	14	Compliance by Contractor	62
3	Revision of Quality Control Plan	59			
4	Measuring/Monitoring Equipment	60			
5	Private Roadside Structures	60			
6	Private Entrances	60			
7	Arbitration	60			
В	Maintenance Management System				
8	Deleted	61			
9	Deleted	61			
С	General Maintenance Requirements				
10	Road Roughness Survey	61			
11	Management of Spoil and Excess Road Making Material	61		nexure – 3A htractor's Work Program	63
12	Underground Sewer Pipelines	61		Cash flow forecast	
			Anr	nexure – 3B	64
			Mor	nthly Cash Flow Forecast	

PART – I GENERAL CONDITIONS OF CONTRACT (GCC)

A: GENERAL

1. Definitions

1.1 Terms which are defined in the Contract Data are not defined in the Conditions of Contract but keep their defined meanings. Capital initials are used to identify defined terms.

Bill of Quantities means the priced and completed **Bill of Quantities** forming part of the Bid.

Compensation Events are those defined in Clause 41.

Contract Completion Date is the date of completion of Contractor's obligations under this Contract for the Construction works as indicated in the Contract Data.

Contract is the contract between the Employer and the Contractor to execute, complete and maintain the Works. It consists of the documents listed in Sub Clause 2.2.

Contract Data defines the documents and other information which comprise the Contract, more specifically refers to Section 4 of the Document.

Contractor is a person or firm, whose Bid to carry out the Works has been accepted by the Employer.

Contractor's Bid is the completed Bidding document submitted by the Contractor to the Employer.

Contract Price is the price stated in the Letter of Acceptance for Overlay works.

Days are calendar days; **months** are calendar months.

Defect is any part of the Works not completed in accordance with the Contract.

Defects Liability Period is the period specified in the Contract Data and calculated from the Overlay works Completion Date. For this particular contract, Defects Liability Period is 12 months after the Overlay works Completion Date.

Drawings include calculations and other information provided.

Employer is the party who will employ the Contractor to carry out the Works or its authorized representative.

Authorised representative is the person (or any other competent person appointed and notified to the Contractor to act in replacement of the Employer) who is responsible for supervising the execution of the Works and administering the Contract.

Equipment is the Contractor's machinery and vehicles' brought, temporarily or otherwise, to the Site to construct the Works.

Intervention Standards is the level of the damage at which road assets need to be intervened and repaired.

Letter of Acceptance means the formal acceptance by the Employer of the Bid.

Materials are all supplies, including consumables, used by the contractor for incorporation in the Works.

Milestone is a specified date or duration by which specified works are to be completed.

Permanent Works means the permanent works to be executed in accordance with the Contract.

Plant is any integral part of the Works which is to have a mechanical, electrical, electronic or chemical or biological function.

Project is a road/highway of Patratu Dam-Ramgarh Road starting from Km 0+000 at Patratu and ends at Km 27+118 at Subhash Chowk in Ramgarh.

Rectification Standards is the period of time given to repair the damage to the road asset.

Overlay works Completion Date is the actual date of completion of Overlay works as certified by the Employer in accordance with Sub Clause 50.1.

Road Asset Group is clubbing of similar activities for road maintenance.

Service Quality specifies the condition of the road asset which gives a desirable level of service and comfort.

Site is the area defined as such in the Contract Data.

Specification means the Specifications of the Works included in the Contract and any modification or addition made or approved by the Employer, in writing.

Start Date is given in the Contract Data. It is the date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.

Subcontractor is a person or firm or corporate body who has a contract with the Contractor to carry out a part of the work in the Contract.

Temporary Works are works designed, constructed, installed, and removed by the Contractor which are needed for construction or installation or maintenance of the Works.

Variation is an instruction given by the Employer in writing which varies the Works.

Works means the Overlay works as stated in the Contract Data.

Working Drawings means all Drawings, calculations, samples, patterns, models, maintenance manuals and other technical information of a like nature submitted by the Contractor and approved by the Employer, for execution of the Works.

2. Interpretation

- 2.1 In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Employer will provide instructions clarifying queries about the Contract.
- 2.2 The documents forming the Contract shall be interpreted in the following order of priority:
 - (1) Agreement (if completed)
 - (2) Letter of Acceptance
 - (3) Contractor's Bid
 - (4) Contract Data
 - (5) Conditions of Contract
 - (6) Specifications
 - (7) Priced Bill of Quantities; and
 - (8) Any other document forming part of the Contract.

3. Language and Law

3.1 The language of the Contract and the law governing the Contract are stated in the Contract Data.

4. Engineer's Duties and Employer

- 4.1 Deleted
- 4.2 Deleted.
- 4.3 Deleted

5. Delegation

5.1 Deleted.

6. Communication

6.1 Communication between parties of the Contract shall be effective only when it is in writing. A notice shall be effective only when it is delivered (in terms of Indian Contract Act).

7. Subcontracting

- 7.1 The Contractor may subcontract part of the Works with the approval of the Employer up to the extent mentioned in the Contract Sub Clause 4.2 (h) of ITB, Section 1 but may not assign the Contract without approval of the Employer in writing. Subcontracting does not alter the Contractor's obligations.
- 7.2 The Contractor shall not be required to obtain any consent from the Employer for:
 - (a) the subcontracting of any part of the Works for which the Sub-contractor is named in the Contract:
 - (b) the provision of labour; and
 - (c) the purchase of Materials which are in accordance with the standards specified in the Contract.

8. Other Contractors

8.1 The Contractor shall cooperate and share the Site with other Contractors, public authorities and the Employer and his representatives. The Contractor shall provide facilities and services for them related to the Work. The Employer may modify the Schedule of Other Contractors and shall notify the Contractor of any such modification.

9. Personnel

- 9.1 The Contractor shall employ the key personnel for the Overlay works, named in the Details of Key Personnel as referred to in the Contract Data to carry out the functions of the positions stated in Annexures–1C and 1D of the Instructions to Bidders, Section 1 or other personnel approved by the Employer. The Employer will approve any proposed replacement of key personnel only if their qualifications, abilities, and experience are relevant to the nature of duties.
- 9.2 If the Employer asks the Contractor to remove a person who is a member of the Contractor's staff or his work force stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.

10. Employer's and Contractor's Risks

10.1 The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

11. Employer's Risks

11.1 The Employer is responsible for the excepted risks which are in so far as they directly affect the execution of the Works in the Employer's country, the risks of war, hostilities, invasion, act of foreign enemies, rebellion, revolution, insurrection or military or usurped power, civil war, riot, commotion or disorder (unless restricted to the Contractor's employees), and contamination from any nuclear fuel or nuclear waste or radioactive toxic explosive.

12. Contractor's Risks

12.1 All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks as at Sub Clause 11.1 are the responsibility of the Contractor.

13. Insurance

- 13.1 The Contractor shall provide, in the joint names of the Employer and the Contractor, insurance cover from any of the acceptable Insurance Companies in India, valid from the Start Date to the end of the Defects Liability cum Maintenance Period, including extended period, in the amounts and deductibles stated in the Contract Data.
- 13.2 Policies and certificates for insurance, from the acceptable Insurance Companies in India, shall be delivered by the Contractor to the Employer for the Employer's approval before the Start Date. All such insurance shall provide for compensation to be payable in Indian Rupees, along with the types and proportions required to rectify the loss or damage incurred.
- 13.3 If the Contractor does not provide any of the policies and certificates required, the Employer may effect the insurance which the Contractor should have provided and recover the premiums the Employer has paid, from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due and if warranted, recovered by invoking Performance Security.
- 13.4 Alterations to the terms of insurance shall not be made without the prior approval of the Employer, in writing.
- 13.5 The parties shall ensure that insurance is as per the applicable laws, and comply with all conditions of the insurance policies.
- 13.6 It shall be the responsibility of the Contractor to notify the insurance company of any change in the nature and extent of the Works and to ensure the adequacy of the insurance cover at all times during the period of the Contract or the extended period, if any.

14. Contractor to Construct the Works and Works to be completed by Contract Completion Date

- 14.1 The Contractor shall undertake the Works in accordance with the Contract as per instructions of the Employer.
- 14.2 The Contractor shall commence the Works on the Start Date and shall carry out the Works in accordance with the Program submitted by the Contractor, as updated with the consent of the Employer, and complete them by the Contract Completion Date stated in the Contract Data.
- 14.3 Deleted.
- 14.4 Deleted.

15 Safety, Security and Protection of the Environment

- 15.1 The Contractor shall, throughout the execution and completion of the Works, the remedying of any defects therein and during Defect Liability period:
 - (a) have full regard for the safety of all persons entitled to be upon the Site and keep the Site so far as the same is under his control and the Works so far as the same are not completed or occupied by the Employer in an orderly state appropriate to the avoidance of danger to such persons;
 - (b) provide and maintain at his own cost all lights, guards, fencing, warning signs and watching, when and where necessary or required by the Employer or by any duly constituted Employer, for the protection of the public or others; and
 - (c) take all reasonable steps to protect the environment, on and off the Site, and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation.

The Contractor and his Subcontractors shall abide at all times by all existing enactments on environmental protection and rules made there under, regulations, notifications and bye-laws of the State or Central Government, or local authorities and any other law, bye-law, regulations that may be passed or notification that may be issued in this respect in future by the State or Central Government or the local Employer. Some of the major laws that are applicable are given below:

- The Water (Prevention and Control of Pollution) Act, 1974.
- > The Air (Prevention and Control of Pollution) Act, 1981.
- > The Environment (Protection) Act, 1986.
- > The Public Liability Insurance Act, 1991.

16. Working Drawings

16.1 Deleted

16.2 The Contractor shall submit Designs, Specifications and Drawings to the Employer who will approve these, if they complied with the specifications & Drawings.

17. Approval by the Employer

- 17.1 The Employer shall approve the Designs, Specifications and Drawings submitted by the Contractor
- 17.2 The Contractor shall obtain approval of other relevant authorities/agencies (if any like Railways Department etc.) for carrying out Works, where required.
- 17.3 The Employer's approval shall not relieve the Contractor of his obligations.

18. Safety of Traffic

18.1 The Contractor shall be responsible for the safety of all activities on the Site.

19. Discoveries

19.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be property of the Employer. The Contractor shall notify the Employer of such discoveries and carry out the Employer's instructions for dealing with them.

20. Possession of the Site

20.1 The Employer shall give possession of the Site to the Contractor in accordance with the Contract Data. If possession of minimum 75% of the site is not given by the agreed date stated in the Contract Data, then the Overlay works Completion Date shall be postponed by the Employer as may be required for that particular part/stretch. However, this will not be applicable if sufficient work site is made available to the Contractor as and when required, for him to proceed ahead with progress of work and if available work fronts remain unattached/unutilized.

21. Access to the Site

21.1 The Contractor shall allow the Employer and any person authorized by them access to the Site, to any place where work in connection with the Contract is being carried out or is intended to be carried out and to any place where materials or plant are being manufactured / fabricated / assembled /stored for the Works.

21.2 Commencement of the Project

The Contractor shall commence the Works on Site within the period stated in the Contract Data after receipt by him of a Notice to this effect from the Employer, to be issued within 30 days after signing of the Agreement. Thereafter, the Contractor shall proceed with the Works with due expedition and without delay.

The requirement to commence the Works at Site shall be fulfilled if:

- (a) A programme has been submitted in accordance with Clause 25 of Conditions of Contract:
- (b) The Contractor's authorized representative, with full supporting staff are in position at the Site;
- (c) Equipment, Plant, materials and labour for the work programmed for execution in the first two months have been mobilized at the Site.

22. Instructions

22.1 The Contractor shall carry out all instructions of the Employer pertaining to the Works, which comply with the applicable laws where the Site is located.

23. Disputes

- 23.1 If either party believes that a decision taken by the Employer/Contractor was either outside the Contract or that the decision was wrongly taken, the objecting party may file notice of dispute to the other party stating that it is giving the notice pursuant to this Clause while stating clearly the basis for the dispute within 21 days of the notification of the decision.
- 23.2 The party receiving the dispute notice will consider it and reply in writing within 28 days of the receipt of the notice. If no reply is received or the reply is not acceptable to the other party, the affected party may refer the dispute for Arbitration to the Arbitral Tribunal.

24. Procedure for Disputes – Arbitration

24.1 The arbitration shall be conducted in accordance with the arbitration procedure stated in Clause 7 of the Special Conditions of Contract.

B: TIME CONTROL

25. Program

- 25.1 Within the time stated in the Contract Data, the Contractor shall submit to the Employer for consent, an updated Program for the awarded Works including Quality Control, Environment and Traffic Management Plans showing the general methods, arrangements, order, and timing for all the activities in the Works along with monthly cash flow forecast (Annexure 3A & 3B).
- 25.2 An update of the Program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work including any changes to the sequence of the activities.
- 25.3 If the Contractor does not submit an updated Program within this period as specified in the Contract Data, the Employer may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program has been submitted. An updated Program is to show the effect of Variations and Compensation Events.
- 25.4 The Employer's consent of the Program shall not relieve the Contractor of his obligations.

26. Extension of the Overlay works Completion Date

- 26.1 The Employer shall extend the Overlay works Completion Date as stated in the Contract Data, if a Compensation Event occurs or a Variation is issued which makes it impossible for completion to be achieved by the Overlay works Completion Date, without the Contractor taking steps to accelerate the remaining work and which would cause the Contractor to incur additional cost.
- 26.2 The Employer shall decide whether and by how much to extend the Overlay works Completion Date, within 28 days of the Contractor asking the Employer for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Overlay works Completion Date.
- 26.3 Deleted.
- 26.4 Employer is fully empowered to grant extension to the Overlay works Completion Date.

27. Delays Ordered by the Employer

- 27.1 The Employer may instruct the Contractor to delay the start or progress of any activity within the Works.
- 27.2 Deleted.

28 Management Meetings

- 28.1 Either the Employer or the Contractor may require the other to attend a management meeting/site visit. The business of a management meeting shall be to review the progress of work plans for remaining work and to deal with matters raised in accordance with the early warning procedure.
- 28.2 The Employer shall record the business of management meetings and shall provide copies of his record to those attending the meeting. The responsibility of the parties for actions to be taken is to be decided by the Employer either at the management meeting or after the management meeting and stated in writing to all those who attended the meeting. Failure to attend the management meetings/site visits shall attract penalties at the rate indicated in the Contract Data and in case of non-attendance of more than three such meetings/visits by the Contractor, then the same shall be construed as fundamental breach of the Contract in terms of Clause 54.

28.3 Maintenance Works Program and Review Meetings

- (a) Deleted.
- (b) Deleted
- 28.4 Monthly progress reports shall be prepared by the Contractor and submitted to the Employer in six hard copies and one soft copy. The first report shall cover the period upto the end of the first calendar month following the Start Date. Reports shall be submitted within 7 days for each month thereafter.

Each report shall include:

- (i) status of availability of site and problems related thereto, if any,
- (ii) status of mobilization and working of equipment & machinery,
- (iii) details of progress of work with charts and photographs,
- (iv) comparison of actual and planned progress, with details of any events or circumstances which may jeopardize the completion in accordance with the Contract, and the measures being (or to be) adopted to overcome delays,
- (v) status of procurement of material required for the work,
- (vi) production of various materials at site such as aggregate, reinforced earth panels etc.,

- (vii) list of Variations, notices given etc.,
- (viii) construction problems encountered, if any,
- (ix) copies of quality control documents, tests results and certificate of materials,
- (x) safety statistics, including details of any hazardous incidents and activities, related to environmental aspects and public relations,
- (xi) weather record during the month, day by day, and
- (xii) any other details/matters related to the Work.

29. Early Warning

- 29.1 The Contractor is to warn the Employer at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the Work, increase the Contract Price or delay the execution of the Works. The Employer may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Contract Completion Date. The estimate is to be provided by the Contractor as soon as reasonably possible.
- 29.2 The Contractor shall cooperate with the Employer in making and considering proposals as to how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Employer.

C: QUALITY CONTROL

30. Identifying Defects

- 30.1 The Employer shall check the Contractor's work and notify the Contractor of any Defects that are found. The Employer may instruct the Contractor to search for a Defect and to uncover and test any work that the Employer considers may have a Defect. Such checking/instructions shall not absolve the Contractor of his responsibilities.
- 30.2 The Contractor shall permit the Site visits of the Employer's Technical Auditor/Independent Engineer/Lenders' Engineer to check the Contractor's work and notify the Employer and the Contractor of any Defects that are found. Such a check shall not absolve the Contractor's or the Employer's responsibility as defined in the Contract.

31. Tests

- 31.1 The Contractor shall be responsible for carrying out the tests prescribed for the Works.
- 31.2 The Contractor shall, at his cost, establish suitable testing facility with adequate and suitable equipment and survey equipment in the vicinity of the work Site premises, as prescribed in the Specifications, to the satisfaction of the Employer.
- 31.3 If the Employer instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a defect and the test shows that it does, the Contractor shall pay for the test and sample. If it shows that the work is not defective, then the Employer shall pay for the test and samples.
- 31.4 The Contractor shall furnish all test results as per the approved Quality Control Plan to the Employer, in a monthly progress report as per Sub Clause 28.4 or at a frequency directed by the Employer. The Employer may withhold payment for those works where test results have not been submitted.

32. Correction of Defects

- 32.1 The Contractor shall undertake measures to rectify the defects in the Work identified by the Employer or any of the Employer's authorized representative at the earliest, but not later than the time period specified by the Employer.
- 32.2 The Defect Liability Period shall be as given in the Contract Data. The Employer shall give notice to the Contractor of any defects before the end of the Defects Liability Period. The Defects Liability Period shall be extended for as long as defects remain to be corrected.

33. Uncorrected Defects

33.1 If the Contractor has not corrected a defect to the satisfaction of the Employer, within the time specified in the Employer's notice, the Employer will assess the cost of having the defect corrected, and the Contractor will pay this amount. In case of failure to pay, the same shall be deducted from any payment due to the Contractor/recovered from his Bank Guarantees under intimation to the Contractor.

D: COST CONTROL

34. Bill of Quantities

- 34.1 The Bill of Quantities shall contain items for the Overlay works for construction, installation, testing and commissioning works to be executed by the Contractor.
- 34.2 The Bill of Quantities shall be the basis to calculate the payment for Overlay works. The Contractor is paid for the quantity of the work done at the rate in the Bill of Quantities for each item.
- 34.3 Deleted

35. Changes in the Quantities

- 35.1 Deleted
- 35.2 The change in quantities/amounts due to increase/decrease in the scope of work, that is, Variation in Bill and in the Bill of Quantities, Section 6 of the Bid Document (Volume 2) shall be considered for additional payment as per rates defined in Bill of Quantities.
- 35.3 If requested by the Employer, the Contractor shall provide the Employer with a detailed cost breakdown of rate of any item in the Bill of Quantities.
- 35.4 IL&FS Transportation Networks Limited is fully empowered to approve the variation of quantity and rates for extra item on the merit of the case.

36. Variations

- 36.1 Item rates quoted for each BOQ item shall remain fixed irrespective of any Quantity Variation.
- 36.2 All Variations during implementation of the Overlay works, shall be included in updated Programs produced by the Contractor.
- 36.3 Deleted

37. Payments for Variations

- 37.1 The %age of bitumen in any of the courses shall be as per the approved Job Mix formula and no variation shall be paid against the same.
- 37.2 If the event of variation is in terms of additional/extra item(s) or substitution of any item(s) in the BOQ with new item(s), then the rates for the items shall be decided on mutual consent.

- (a) Deleted
 - (i) Deleted
 - (ii) Deleted
 - (iii) Deleted
 - (iv) Deleted
 - (v) Deleted

38. Cash Flow Forecasts

38.1 When the Program is updated, the Contractor shall provide the Employer with an updated cash flow forecast.

39. Payment Certificates

39.1 Overlay works

- (a) The Contractor is required to measure the work under the observation and control of the Employer. The Contractor shall submit to the Employer monthly statements of the estimated value of the work executed, less the cumulative amount certified previously and, applicable statutory deductions, outstanding advances supported with detailed measurements of the items of work executed, approved request for inspections (RFI) for the work done during the month, applicable rates and other relevant details, both in hard and soft form (in a Compact Disk of size acceptable to the Employer) along with an abstract statement, in accordance with the provisions of this Contract.
- (b) The Employer shall ascertain and determine by measurement the value of the work in accordance with the Contract. The Employer shall exclude any item in a previous certificate or reduce the proportion of any item previously certified in the light of later information.
- (c) The value of work executed shall comprise the value of quantities of the items in the Bill of Quantities.
- (d) The value of work executed shall include the valuation of Variations.
- (e) Items of the Works for which no rate or price has been provided in the priced BOQ will not be paid for by the Employer and shall deemed to be covered by other rates and prices in the Contract.
- (f) The certification and payment methodology for Overlay works shall be as given below:
 - (i) Contractor to submit a payment request with details of Works completed or partly completed during the calendar month to the Employer, within seven days from the last date of the particular month;

- (ii) Within Seven days of receipt of Contractor's RA Bill, Employer is required to evaluate the payment request in terms of the work executed, and if the Employer finds the payment request in order, he certifies to pay 70% of eligible payment against the RA Bill, subject to availability of funds. This payment shall be net of recovery of mobilization and other advances, recovery in terms of Contract and Taxes to be deducted at source as applicable under the Law.
- (iii) Subsequent to submission of monthly payment request, Employer shall check the Contractor's monthly statement within 10 days and certify the amount to be paid to the Contractor after taking into account the recovery of advance payments, as per para (ii). Employer shall also account for Liquidated Damages and other deductions, Variation in price of bitumen, while arriving at the amount payable to the Contractor.
- (iv) Employer shall make payments within thirty days for final certified bills to the contractor.
- 39.2 Deleted
- 40. Delayed and Disputed Payments
- 40.1 Deleted
- 41. Compensation Events
- 41.1 Deleted
- 42. Tax
- 42.1 The rates quoted by the Contractor shall be deemed to be inclusive of GST and all other applicable taxes including duties/royalties/levies as may be levied by Central/State Governments and local bodies that the Contractor will have to pay for the performance of this Contract. The Employer will perform such duties in regard to the deduction of such taxes at source as per applicable law on the date of payment of the Contractor's bill.
- 43. Currencies
- 43.1 All payments shall be made in Indian Rupees only.
- 44. Changes in Cost and Legislation
- 44.1 Price Adjustment

44.2 Other Changes in Cost

Deleted

44.4 Adjustment Formulae

Deleted

44.5 Base, Current and Provisional Indices

Deleted

44.6 Limit of Price Adjustment

(a) Deleted.

44.7 Subsequent Legislation

If, after the last date for submission of tenders for the Contract, there occur changes to any National or State Statute, Ordinance, Decree or other Law or any regulation or bye-law of any local or other duly constituted Employer, or the introduction of any such State Statute, Ordinance, Decree, Law, regulation or bye-law which causes additional or reduced cost to the Contractor, other than under the preceding Sub-Clauses of this Clause, in the execution of the Contract, such additional or reduced cost shall, after due consultation with the Employer shall be added to or deducted from the Contract Price and the Employer shall notify the Contractor accordingly.

45. Liquidated Damages and Penalty

45.1 For Overlay works

Penalty shall be applicable @ Rs. 2.00 (Two) Lac/day of delay for non- completion of the work within stipulated completion time. Maximum cumulative (total) penalty shall be applicable @5% of the Contract Price.

46. Deleted

47. Advance Payment

47.1 The Employer shall, make interest free advance payment to the Contractor, on his request, of the amounts and by the date stated in the Contract Data, against provision by the Contractor of an unconditional Bank Guarantee for an amount equal to the advance payment. The Bank Guarantee, in the prescribed format is acceptable from the following institutions located in India:

- (a) State Bank of India or its subsidiaries;
- (b) Any Indian Nationalized /Scheduled Bank;
- (c) IDBI Bank or Axis Bank or ICICI Bank or HDFC Bank or Yes Bank; or
- (d) Foreign Bank with operations in India provided the net worth in respect of the Indian operations shall not be less than Rs 500 crores as per the latest Annual Report of the Bank and that Bank Guarantee is issued by a branch in India.

The guarantee shall remain effective until the advance payment has been fully recovered, but the amount of the guarantee can be progressively reduced by the amounts repaid by the Contractor.

- 47.2 The Contractor is to use the advance payment only to pay for Equipment, Plant and Mobilization expenses required specifically for execution of the Works. The Contractor shall demonstrate that advance payment has been used in this way by supplying copies of invoices or other documents to the Employer.
- 47.3 The advance payment shall be recovered by deducting proportionate amounts as indicated in the Contract Data, from payments otherwise due to the Contractor, following the schedule of completed percentages of the Works on a payment basis. No account shall be taken of the Mobilization & Equipment/Plant advance payment or its repayment in assessing valuations of work done, Variations, price adjustments, Compensation Events, or liquidated damages.
- 47.4 Deleted

48. Securities

Deleted

49. Cost of Maintenance

49.1 Loss or damage to or defective works or materials during the execution of Works shall be remedied by the Contractor at the Contractor's cost to the satisfaction of the Employer.

E: FINISHING THE CONTRACT

50. Completion

- 50.1 The Contractor shall request the Employer to issue a certificate of completion of Overlay works and the Employer shall do so upon deciding that the Overlay Work is completed.
- 50.2 No later than 30 days prior to the Contract Completion Date, the Contractor and the Employer shall conduct a condition survey of all the items mentioned in the Road Asset Groups and the items not confirming to the specified Intervention Standard shall be recorded.

Where items not meeting the specified Interventions Standard are identified, the Employer shall:

- (a) provide a written record of the condition survey to the Contractor within 14 days of the completion of the survey. The Employer's decision on the condition of any item of Road Asset Group shall be final.
- (b) direct the Contractor to rectify the deficiencies within the specified Rectification Standard / Period.
- 50.3 On satisfactory completion of Defect Liability Period, the Contractor shall request the Employer to issue a Certificate of Completion of the Contract. The Employer shall, issue such certificate subject to the Contractor satisfying all provisions under the Contract.

51. Taking Over

51.1 Deleted.

52. Final Account

- 52.1 In case of Overlay works, the Contractor shall supply to the Employer a detailed account of the total amount that the Contractor considers payable under the Contract within 60 days after the issue of certificate of completion of Overlay works by the Employer as per Sub Clause 50.1. The Employer shall certify any final payment that is due to the Contractor within 60 days of receiving the Contractor's account. If the Employer is not satisfied with the detailed account, then the Employer shall issue within 30 days thereto a schedule that states the scope of the corrections or additions that are necessary. If the Contractor fails to comply with the Employer's instructions within 15 days, Employer will certify as per the schedule of Corrections or addition sent to contractor and make payment to the Contractor within 45 days.
- 52.2 The Contractor shall submit his Final Statement of Account within 45 days of the Contract Completion Date and the Employer shall certify within 45 days and submit to the Employer any final payment that is due to the Contractor. Thereafter, the Employer shall make payment to the Contractor within 30 days. If the Employer is not satisfied with the detailed account, then the Employer shall

issue within 30 days, thereto, a schedule that states the scope of the corrections or additions that are necessary. If the revised final account is still unsatisfactory after it has been resubmitted, the Employer shall decide on the amount payable to the Contractor and issue a payment certificate within 30 days of receiving the Contractor's revised final account.

53. As Built Drawings and Maintenance Manuals

53.1 Deleted

54. Termination

- 54.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.
- 54.2 Fundamental breach of the Contract includes, but shall not be limited to the following:
 - (a) the Contractor stops work for 28 days when no stoppage of work is shown on the current program and the stoppage has not been authorized by the Employer;
 - (b) the Employer or the Contractor is made bankrupt or goes into liquidation, other than for purposes of reconstruction or amalgamation;
 - (c) a payment for certified bills is not paid by the Employer to the Contractor within 60 days of the date of the Employer's certificate;
 - (d) the Employer gives notice that failure to correct a particular Defect is a fundamental breach of the Contract and the Contractor fails to correct it within a reasonable period of time determined by the Employer;
 - (e) the Contractor does not maintain Performance Security which is required;
 - (f) the Contractor has defaulted in fulfilling his obligations under this Contract;
 - (g) the Contractor has contravened Sub-Clause 9.2;
 - (h) the Contractor does not adhere to the agreed construction program as per Clause 25 and also fails to attend the management meetings (Clause 28);
 - (i) the Contractor fails to carry out instructions of the Employer within a reasonable time determined by the Employer in accordance with the Sub Clauses 15.1, 22.1and 45.1;
 - the Contractor has delayed the completion of the Works beyond the period for which the maximum amount of liquidated damages has become payable as defined in the Contract Data;
 - (k) if the Contractor, in the judgment of the Employer has engaged in corrupt, fraudulent or coercive practices as defined in Sub Clause 34.1 (a) of ITB in competing for or in executing the Contract;
 - (I) Deleted

- 54.3 When either party to the Contract gives notice of a breach of contract to the Employer for a cause other than those listed under Sub Clause 54.2, the Employer shall decide whether the breach is fundamental or not.
- 54.4 Notwithstanding the above, the Employer may terminate the Contract for convenience.
- 54.5 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

55. Payment upon Termination

- 55.1 If the Contract is terminated because of a fundamental breach of the Contract by the Contractor, the Employer shall issue a certificate for the value of the work done less advance payments made up to the date of the issue of the certificate, less other recoveries due in terms of the Contract, less taxes due to be deducted at source as per applicable law and less the percentage to apply to the work not completed as indicated in the Contract Data. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer. For this purpose, the performance security furnished by the Contractor shall not be taken into account. The Performance Security furnished by the Contractor shall stand forfeited in favor of the Employer without any restrictions or preconditions.
- 55.2 If the Contract is terminated at the Employer's convenience or because of a fundamental breach of the Contract by the Employer, the Employer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the Contract and less taxes due to be deducted at source as per applicable law and the Employer shall pay.

56. Property

56.1 If the Contract is terminated because of Contractor's default, all materials on the Site, Plant, Equipment, Temporary works and the Works are deemed to be the property of the Employer, till completion of the work. The Employer shall make use of the available materials and equipment for completion of the Work.

57. Release from Performance

57.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor, the Employer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all Works carried out before receiving the certificate and for any work carried out afterwards to which commitment was made.

58. Details to be Confidential

58.1 The Contractor shall treat the details of the Contract as private and confidential and shall not publish or disclose the same or any particulars thereof in any trade or technical paper or elsewhere without the previous consent in writing of the Employer. If any dispute arises causing the necessity of any publication or disclosure for the purpose of the Contract, the same shall be referred to the Employer whose determination shall be final.

59. Life-saving Appliances and First-aid Equipment

59.1 The Contractor shall provide and maintain upon the Works and the Site, sufficient, proper and efficient life-saving appliances and first-aid equipment, to the satisfaction of the Employer. The appliances and equipment shall be available for use at all times during the pendency of the Contract.

PART - II SPECIAL CONDITIONS OF THE CONTRACT (SCC)

A: GENERAL

1 Labour

- 1.1 The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.
- 1.2 The Contractor shall, if required by the Employer, deliver to the Employer a return in detail, in such form and at such intervals as the Employer may prescribe, showing the staff and the numbers of the different classes of labour from time to time employed by the Contractor on the Site and such other information as the Employer may require.
- 1.3 During continuance of the Contract, the Contractor and his Sub-Contractors shall abide at all times by all existing labour enactments and rules made thereunder, regulations, notifications and bye laws of the State or Central Government or local Employer and any other labour law (including rules) that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or any competent Employer.
- 1.4 The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent Authority on account of contravention of any of the provisions of any Act or rules made thereunder, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/ Rules/regulations including amendments, if any, on the part of the Contractor, the Employer shall have the right to deduct any money due to the Contractor including his amount of performance security. The Employer shall also have the right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.
- 1.5 The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

2 Statutory Clearances

2.1 List of clearances to be obtained by the Employer and the Contractor are given below. It may be noted that the list below may not be exhaustive and in case any additional clearances are required, the same shall be procured by the Contractor, unless otherwise specified in the Law / guidelines of statutory agencies.

(a) Employer's Responsibility:

- (i) Environmental clearance for the project, if any;
- (ii) Permission for shifting of utilities;
- (iii) Permission for cutting trees;
- (iv) Land acquisition;

(b) Contractor's Responsibility:

- (i) Pollution Control Board and other Statutory Clearances for hot mix plant, stone crushers and any other purpose / activity as may be required;
- (ii) Excavation, cutting, transporting and dumping of earth and other construction materials including that for quarry;
- (iii) All police and traffic management related clearances at the work sites;
- (iv) Employing labour and other labour related clearances (ESI / Contract Labour / Health / PF etc.);
- (v) Electrical connections and Water Supply;
- (vi) Employment of migrant labour;
- (vii) Establishing and operating labour camps;
- (viii) Location of fuel storage tanks / containers etc.;
- (ix) Clearances for using / storing explosives;
- (x) All clearances required from the Fire Department; and
- (xi) Any other clearances that are not specifically included in Employer's list and may be required according to prudent utility practices or instructed by Employer.

3 Revision of Quality Control Plan

3.1 The Employer shall instruct the Contractor to revise and/or resubmit his Quality Control Plan, if required before giving approval. The Contractor shall implement any required changes to improve the Quality Control Plan. The approval of the Employer shall not absolve the Contractor of his responsibilities and obligations under the Contract.

4 Measuring / Monitoring Equipment

4.1 The Contractor shall ensure properly calibrated and functional measuring/ monitoring equipment, to the satisfaction of the Employer, at all times during the Contract.

5 Private Roadside Structures

- 5.1 Deleted
- 6 Private Entrances
- 6.1 Deleted

7 Arbitration (Refer GCC Sub Clause 24.1)

- 7.1 The procedure for arbitration shall be as follows:
 - (a) In case of Dispute or difference arising between the Employer and the Contractor relating to any matter arising out of or connected with this agreement referred for arbitration, shall be settled in accordance with the Arbitration and Conciliation Act, 1996.
 - (b) The Arbitral Tribunal shall consist of three Arbitrators, one each to be appointed by the Employer and the Contractor. The third Arbitrator shall be chosen by consensus by the two Arbitrators so appointed by the Parties and shall act as the Presiding Arbitrator. In case of failure of the two Arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the Arbitrators, then the Presiding Arbitrator shall be appointed by the Indian Roads Congress on the request of the Employer.
 - (c) If one of the parties fails to appoint its Arbitrator in pursuance of Sub Clauses (a) and (b) within 30 days after receipt of the notice of the appointment of its Arbitrator by the other party, then the Indian Roads Congress shall appoint the Arbitrator on the request of the Employer. In case the Employer fails to do so within 30 days, the Contractor will approach the Indian Roads Congress for appointment of Arbitrator. A certified copy of the order of the Indian Roads Congress, making such an appointment shall be furnished to each of the parties.
 - (d) Arbitration proceedings shall be held at Mumbai and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English.
 - (e) The decision of the majority of Arbitrators shall be final and binding upon both parties. The cost and expenses of Arbitration proceedings will be paid as determined by the Arbitral Tribunal and shared equally by both the parties.

	erformance under the Contract shall continue during the arbitration proceedings and payments due to the Contractor by e Employer shall not be withheld, unless they are the subject matter of the arbitration proceedings.
MAINTE	ENANCE MANAGEMENT SYSTEM
Deleted	
Deleted	
GENER	AL MAINTENANCE REQUIREMENTS
Maintena	ance Survey
Deleted	
Manager Deleted	ment of Spoil and Excess Road Making Material
Undergr	ound Sewer Pipelines

B:

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C:

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Deleted

D: EVALUATION OF SERVICE QUALITY LEVELS FOR PAYMENT OF MONTHLY CERTIFICATE FOR MAINTENANCE WORKS

- 13 Deleted
- 14 Compliance by Contractor

Deleted

CONTRACTOR'S WORKS PROGRAM AND CASH FLOW FORECAST

Contractor shall cover the following:

- 1. Program of construction, backed with equipment planning and deployment, duly supported with broad calculations as per Site handing over.
- 2. Critical Path Method and Schedule and/PERT or bar chart, with resource allocations based on Contractor's work program.
- 3. Quality assurance procedures proposed to be adopted.
- 4. A concise method statement in narrative form covering each major activity:
 - (a) Traffic control
 - (b) Tack Coat
 - (c) Bituminous concrete
 - (d) Miscellaneous items
- 5. Details of Contractor's schedule of site takeover

The Contractor shall include additional INFORMATION necessary to complement and accurately describe the proposed work program and possession of site schedule.

(Sub Clause 4.2 (k) of Section 1, Sub Clause 25.1 and Clause 38 of Section 3, GCC)

MONTHLY CASH FLOW FORECAST

Period from		Contractor	s Estimate			
Commencement of Works (Months)	% of Work	Amount	Cumulative	Aggregate Amount		

SECTION 4:

CONTRACT DATA

CONTRACT DATA

S. No.	Item	Clause Reference of CC
1	The Employer is :	1.1
	IL&FS Transportation Networks Limited(ITNL)	GCC
	The IL&FS Financial Center, Plot C-22, G Block, Bandra Kurla Complex, Mumbai- 400051	
	Tel.: +91 022-26533333,	
	Facsimile: +91 022-26523979	
	E-mail: itnl.projectbids@itnlindia.com	
	Website: www.itnlindia.com	
	Contact Person- Mr. RaviKumar Praveen	
2	The Engineer is Project Manager, ITNL	1.1 GCC
3	The project work is Bituminous Overlay Work for Patratu Dam – Ramgarh Road (RPR-II) in the State of Jharkhand (under JARDCL) – Length 27.118 Kms	1.1 GCC
4	The Works consists of Overlay works & other items as per Bill of Quantities	1.1 ITB
5	The Start Date shall be within 30 days from the date of signing of the Contract agreement for the works	1.1 and 21.2 GCC
6	The language of the Contract documents is English	3 GCC
7	The law which applies to the Contract is the laws of Union of India	3 GCC
8	The following documents are also part of the Contract in addition to documents mentioned in Sub Clause 2.2 of GCC:	
	Details of Minimum Key Personnel required to be mobilized by Contractor for Improvement and Maintenance Works (as per Annexures–1C and 1D of Section 1)	9 GCC
	Schedule of Minimum Key Plant and Equipment to be deployed by Contractor on the work as per Program of Construction and Maintenance (as per Annexures–1A and 1B of Section 1)	4 ITB
9	Insurance requirements are as under:	13
	S. Description of Cause Minimum Cover of Insurance	GCC
	During Overlay works	
	(i) Workmen Compensation for In accordance with statutory Contractor's Own Workers requirements, applicable in India.	
	(ii) Contractor's own Machinery Sum sufficient to provide Equipment/Plant and Materials- replacement at site Loss or damage including earthquake, terrorism, storm, tempest, flood, inundation cover & defect liability cover.	
	(iii) Against liabilities for death or injury In accordance with statutory to any person or loss of or damage requirements, applicable in	

		to any third-p	arty property	Ind	dia.	
	(iv)	Any other ins	urance cover	re	accordance with statutory quirements, applicable in dia.	
10	Contract Completion Date for:			14 GCC		
	` '	•	6 months from the Sta			GCC
	, ,	_			erlay works Completion Date.	
11	The S	ite Possession	shall be given within	one m	nonth from date of start	20 GCC
12	The po	eriod between	Program Updates sha	all be :	30 days	25 GCC
13	The amount to be with-held for late submission of an updated Program shall be Rs 50,000/- each time					25 GCC
14		ty for not attend ngs: Rs 5000/-		etings	s/ Site visits including Weekly	28 GCC
15	The fo		Compensation Events	unle	ess they are caused by the	41 GCC
	(a) D					
16	Penalty and Liquidated Damages:					
	S. No.	Particulars	Penalty / Liquidat Damages	ed	Limit	
	1	Delay of work	Penalty shall applicable @ Rs. Lac/day of delay for completion of the within stipul completion time	non- work	Maximum cumulative (total) penalty 5% of the Contract Price.	45 GCC
17	Delete	ed				46
10	(;)				for the Oscarlas scales are as	GCC 47
18	(i) Interest free advance payments payable for the Overlay works are as below:					47 GCC
	S. No.	Nature of Advance	Amount in Rs.	C	conditions to be fulfilled	
	1.	Mobilization*	10% of the Contract Price for Overlay works.	there conf Gua Ban 45 e stipu	submission of unditional Bank Guarantee for of Contract Price and, eafter, obtaining irmation of the Bank rantee from the issuing k. Same shall be valid up to days beyond the period of allated Contract completion or shall be defined in ract whichever will be later.	

		1
	Form 7H in Section 7 of the Bidding Documents.	
19	The Performance Security shall be for the following minimum amounts equivalent as a percentage of the Contract Price for Overlay works:	32 GCC
	Performance Security of 10% of Contract Price plus Rs	
	The standard form of Performance Security acceptable to the Employer shall be an unconditional Bank Guarantee of the type as presented in Form 7D in Section 7 of the Bidding Documents.	
20	The Defects Liability Period cum Maintenance Works Period is 12 months after the Overlay works Completion Date.	32 GCC
21	Deleted	53 GCC
22	Deleted	55.1 GCC
23	Deleted	125 of STS
24	Deleted	126 of STS

SECTION 5: SPECIFICATIONS

Part No	Description	Page no
	Preamble	70
Part I	General Technical Specifications	71
Part II	Supplementary Technical Specifications	71-93

SECTION: 5

SPECIFICATIONS

1. Preamble

- 1.1 The Specifications contained herein shall be read in conjunction with the other Bidding Documents as specified in Section 1.
- 1.2 Wherever reference is made in the Contract to specific standards/codes to be met by the materials, plant, and other supplies to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country of region, other internationally recognized standards and codes specified will be accepted subject to the Employer's prior review and written approval.

2. General Requirement

The Specifications in accordance with which the entire work shall be constructed and maintained by the Contractor are as described hereunder:

2.1 Part I – General Technical Specifications

The General Specifications for the Works shall be the "Specifications for P & Bridge Works" (5th Revision 2013, published by IRC) issued by the Ministry of Road Transport & Highways (MORTH), henceforth called MORTH Specification.

2.2 Part II - Supplementary Technical Specifications

The Supplementary Technical Specifications shall comprise of various Amendments/Modifications/Additions to the MORTH referred to in Part – I for particular item of works not already covered in Part – I and Specifications for Building, Sanitary, Electrical and Miscellaneous Works.

- 2.2.1 Where a particular Clause or a part thereof in the "MORTH SPECIFICATIONS" referred in Part-I, has been Amended/Modified/Added upon, and incorporated in Part-II, such Amendment/Modification/ Addition supersedes the relevant Clause or part of the Clause.
- 2.2.2 The following Clauses in the "MORTH SPECIFICATIONS" have been amended/modified/ added upon:

102, 106, 108, 109, 111, 112, 115, 120, 301, 305, 306, 309, 401, 406, 408, 409, 501, 502, 503, 504, 505, 507, 803, 900, 901, 1007, 1009, 1014, 1404, 1502, 1503, 1603, 1605, 1703, 1706, 1707, 1712, 2005, 2503, 2504, 2600, 2604, 2607, 2608, 2708, 2803, 2804, 3101.

2.2.3 The Additional Specifications shall comprise of specifications of particular item of work not covered in Part-I. These are given new Clause numbers.

The following Clauses A-1 to A-4 have been added to the "MORTH SPECIFICATIONS

Clause A-1

Clause A-2

Test Procedure for Measuring Roughness Index of the Riding Surface of A Flexible Pavement

Clause A-3

Deleted

Clause A-4 Specifications for Building, Sanitary, Electrical and Miscellaneous Works

2.2.4 In the absence of any definite provisions on any particular issue in the MORTH Specifications, reference may be made to the latest codes and specifications of IRC, BIS, BS, ASTM, AASHTO in that order. Where even these are silent, the construction and completion of the works shall conform to sound Engineering practice as approved by the Employer and in case of any dispute arising out of the interpretation of the above, the decision of the Employer shall be final and binding on the Contractor.

Amendments/Modifications/Additions to Existing Clauses of General Specifications Referred in the Part – I

Clause 102 : Definitions

The following abbreviations shall be added at the end of Clause 102.

"BIS" : Bureau of Indian Standards

"MORTH" : Ministry of Road Transport & Highways, Govt. of India.

"RPR" : Ranchi Patratu Dam Road

'ITNL" : IL&FS Transportation Networks Limited

Add a paragraph at the end of this Clause as under

Wherever in the Specification, the phrase "Condition of Contract" is mentioned, it shall mean General Conditions of Contract and Special Conditions of Contract contained in Section 3 of Volume 1 of Bidding Documents

Clause 106: Construction Equipment

Add the following after Sub Clause 106 (k).

- I) Adequate standby equipment including spare parts shall be available as required, and as may be advised by the Employer.
- m) All measuring devices and gauges shall be in good working condition. Measuring devices that can affect product quality shall be calibrated prior to use and at prescribed intervals against certified equipment. Calibration procedures shall be established, maintained and documented and corrective actions taken when results are unsatisfactory. Accuracy and fitness of measuring devices shall be ensured at all times by proper maintenance.

Clause 108: Site Information

Add the following at the end of Sub-clause 108.3

"Identification of quarry sites and borrow areas is the responsibility of the Contractor. Material to be procured from quarry sites and borrow areas identified by the Contractor and to be used in the works shall be as per Specifications for particular items of work."

Clause 109: Setting Out

The second sentence in Para 1 of Sub Clause 109.3 shall be inserted and read as under:

"The Reference Bench Mark for the areas shall be GTS Benchmark established by Survey of India and the values of the same shall be obtained by the Contractor from Survey of India."

Clause 111: Precautions for Safeguarding the Environment

Add new Sub Clause:

Sub Clause 111.13: Environmental Monitoring Plan

Please refer Annexure 5A

Clause 112: Arrangement for Traffic During Construction

Sub Clause 112.6: "Measurements for Payment and Rate" is deleted

Clause 115: Methodology and Sequence of Work

Sub Clause 120.2: Description

Add the words "including uninterrupted power supply" to the second sentence of first paragraph.

Add the following at the end of this Sub-Clause:

"Within 14 (fourteen) days of the Commencement Date, the Contractor shall prepare and submit a layout plan and details of the laboratory building and make/supplier of the equipment to the Employer for his approval.

The field laboratory shall be provided in finished and fully equipped condition to the entire satisfaction of the Employer not later than 45 (forty-five) days after the receipt of Notice to Proceed with the Work. During the period till the laboratory is completed the laboratory tests shall be performed in another laboratory proposed by the Contractor and approved by the Employer at the cost of the former."

Sub Clause 120.4: Laboratory Equipment

The following items of laboratory equipment may also be ensured in the field laboratory:

S.	Sub	Item, Specifications			
No.	No.		Required		
		A : General			
(i)		Balance			
	(a)	7 kg to 10 kg capacity semi-self indicating Electronic Type-Accuracy 1 gm	2		
	(b)	500 gm capacity semi-self indicating Electronic Type-Accuracy 0.01 gm	2		
	(c)	Chemical balance 100 gm capacity – Accuracy 0.0001 gm	1		
	(d)	Pan balance 5 kg capacity – Accuracy 0.5 gm	2		
	(e)	Platform Scale – 300 kg capacity	1		
(ii)		Ovens – Electrically operated, thermostatically controlled			
	(a)	From 100°C to 220°C – Sensitivity	2		
(iii)		Sieves, as per IS 460-1962			
	(a)	IS Sieves 450 mm internal dia of sieve sets as per ISI of required sieve sizes complete with lid and pan	2 sets		
	(b)	IS sieve 200 mm internal dia. (brass frame and steel or brass wire cloth mesh) consisting of sieve sets of required sieve sizes complete with lid and pan	2 sets		

(iv)		Sieve shaker capable of taking 200 mm and 450 mm dia. Sieves electrically operated with time switch assembly (As per IS)	1	
(v)	2	200 tonnes compression testing machine	1	
(vi)	Stop watches 1/5 sec. Accuracy			
(vii)	(vii) Glassware comprising of Beakers, Pipettes, dishes, measuring cylinders (100 to 1000 cc capacity) glass rods and funnels, glass thermometers range 0°C to 100°C and metallic thermometers range 300°C			
(viii)	I	Hot plates 200 mm dia (1500 watt)	2	
(ix)		Enamel trays		
	(a)	600 mm x 450 mm x 50 mm	10	
	(b)	450 mm x 300 mm x 40 mm	10	
	(c)	300 mm x 250 mm x 40 mm	6	
	(d)	Circular plates of 250 mm dia	6	
(x)		Water Testing Kit	1	

B: For Soils

Deleted

C: For Bitumen and Bituminous Mixes

(i)	Constant temperature bath for accommodating bitumen test specimen, electrically operated and thermostatically controlled	1
(ii)	Penetrometer automatic type, adjustable weight arrangement and needles as per IS: 1203-1978	1
(iii)	Centrifuge type bitumen extraction apparatus complete with extraction thimbles with solvent and filter paper	1
(iv)	Laboratory mixer including required accessories about 0.02 cum capacity electrically operated fitted with heating jacket	1
(v)	Marshall compaction apparatus automatically operated as per ASTM 1559-62 T and complete with electrically operated loading unit, compaction pedestal heating head assembly, dial micrometer and bracket for flow measurement, load transfer bar, specimen mould 100 mm dia (4 in) with base plate, collars, specimen extractor, compaction hammer 4.53 kg (10 lb.) x 457 mm (18 in) fall	1 set
(vi)	Distant Reading Digital Thermometer	1
(vii)	Automatic Asphalt Content Gauge (Nuclear or equivalent)	1
(viii)	1.5 tonne capacity Air Conditioner	1

D: For Cement, Cement Concrete and Materials

(i) (ii)		Vicat needle apparatus for setting time with plungers, as per IS : 269-1967 Moulds	1
	(a)	150 mm x 300 mm ht cylindrical moulds with capping component	As required
	(b)	Cubical moulds 150 mm, 100 mm (each size)	As required
(iii)		High frequency mortar cube vibrator for cement testing	1
(iv)		Concrete mixer power driven, 1 cu ft capacity	1
(v)		Variable frequency and amplitude vibrating table size 1 metre $x\ 1$ metre, as per the relevant British Standard	1
(vi)		Flakiness & Elongation index test apparatus	1
(vii)		Aggregate impact test apparatus as per IS : 2386 (Part 4) 1963	1
(viii)		10% fines test equipment	1
(ix)		Flow table as per IS : 712-1973	1
(x)		Equipment for slump test	2
(xi)		Equipment for determination of specific gravity for fine and coarse aggregate as per IS: 2386 (Part 3) 1963	1
(xii)		Flexural attachment to compression testing machine	1
(xiii)		Core cutting machine with 150 mm dia. Diamond cutting edge	1
(xiv)		Needle vibrator	1
(xv)		Vibrating hammer as per BS specification	1
(xvi)		Air entrainment meter	1
(xvii)		0.5 Cft cylinder for checking bulk density of aggregate with tamping rod	As required
xviii)		Soundness testing apparatus for cement	
			1
(i)	E:	For Checking Alignment, Control of Profile and Surface Evenness Precision automatic level with micrometer attachment	2
(ii)		Precision staff	1 set
(iii)		3 metre straight edge and measuring wedge	1 set
(iv)		Camber templates 2 lane, straight run cross-section	2 sets

F: Steel Tape

(a)	5 m long	As
(b)	10 m long	required As
(c)	20 m long	required As
(d)	30 m long	required As
	50 m long	required As
(e)	30 III long	required

Note: The laboratory set-up must be complete including a set of reference standards for all tests, adequately staffed and operational to the satisfaction of the Employer before commencement of the works.

Clause 501 : General Requirements for Bituminous Pavement Layers

Sub Clause 501.8.8.2: Rate for Premixed Bituminous Material

Item (ii) shall read as:

'Preparation of surface to receive the materials except rates for prime / tack coats'

Item (viii) shall be deleted from "with the provision that the variation in actual percentage of bitumen used will be assessed and the payment adjusted accordingly".

Clause 502: Prime Coat over Granular Base

Sub Clause 502.8: Rate

Delete last sentence and read it as "Payment shall be made on the basis of the provision of prime coat at an application rate specified in relevant item of BOQ as approval by Employer. No variation is permitted."

Clause 503 : Tack Coat Sub Clause 503.8 : Rate

Delete last sentence and read it as "Payment shall be made on the basis of the provision of Tack Coat at an application rate specified in relevant item of BOQ as approval by Employer. No variation is permitted."

Clause 507: Bituminous Concrete

Sub Clause 507.1: Scope

Add the following at the end of this Clause

"A site trial shall be performed in accordance with Sub Clause 901.6."

Sub Clause 507.3.1: Requirement for the Mixture

In table 500-12 giving the requirement of Bituminous Concrete mix, add the following:

"Air voids in mix (VIM) determined on Specimens compacted 3% (minimum)

Clause 803 : Road Markings

Sub Clause 803.3.2

This Sub Clause is substituted to read as under:

"The road marking shall be laid with appropriate road marking machinery as approved by the Employer."

Add at the end of Sub-clause 803.6.6:

Faulty Workmanship or Materials

If any material not complying with the requirements is delivered at the Site or used in the Works, or if any sub-standard work is carried out, such material or work shall be removed, replaced or repaired as required by the Employer, at the Contractor's own cost. Rejected traffic markings and paint that has been splashed or has dripped onto the surfacing, kerbs, structures or other such surfaces shall be removed by the Contractor at his own cost, in such a way that the markings of split paint will not show up again later.

Clause 900: Quality Control for Road Works

Sub Clause 901.1

This Sub Clause is substituted to read as under

"All materials to be used, all methods adopted and all works performed shall be strictly in accordance with the requirements of these Specifications. The Contractor shall set up a field laboratory at location approved by the Employer and equip the same with adequate equipment and personnel in order to carry out all required tests and Quality Control work as per Specifications and/ or as per Clause 121 and/ or as directed by the Employer. The list of laboratory equipments and the facilities to be provided shall be as per Clause 121 or as directed by Employer and shall be approved by the Employer in advance."

Add new Sub Clause as under:

Sub Clause 901.15 : Site Trial

The following data shall be ordered at each site trial:

- The composition and grading of the material, including the bitumen content and properties, if appropriate;
- If appropriate, the moisture content at the time of laying;
- If appropriate, the temperature at the time of laying and rolling;
- The type and size of compaction equipment and the number of passes;
- The maximum density or target density as appropriate and the density achieved in the trial;
- The maximum compacted thickness of layer;
- Calibration of machinery for best and efficient results;
- Any other relevant information.

If, during execution of the Works, the construction control tests indicate that the requirements for a material are not consistently being achieved, then work on that layer

shall stop until the cause is investigated. Such investigation may include further laboratory and site trials on the material to determine a revised set of data, as above which, when agreed, shall be the basis on which all subsequent material will be provided and processed to achieve the specified requirements.

Approval by the Employer to a set of data recorded, as above in a site trial shall not relieve the Contractor of responsibility to comply with the requirements of Technical Specifications.

Clause 1007: Coarse Aggregates

- (i) Delete from the first sentence "crushed gravel...... inert material" appearing in 4^{th} and 5^{th} Line.
- (ii) Add the following at the end of this clause:

"Except where it can be shown to the satisfaction of the Employer that a supply of properly graded aggregate of uniform quality can be maintained over the period of the Works, the grading of aggregate shall be controlled by obtaining the coarse aggregate in different size and blending them in correct proportions as or when required."

Clause 1014 : Storage of Materials

Sub Clause 1014.3: Storage of Materials : Aggregates

The following shall be added to this clause

"Aggregates shall be stored or stockpiled in such a manner that segregation and coarse size will be avoided and also that the various sizes will not become intermixed before proportioning. They shall be stored, stockpiled and handled in such a manner that will prevent contamination by foreign materials."

ADDITIONAL SPECIFICATIONS FOR PARTICULAR ITEMS OF WORKS NOT COVERED IN PART – I

<u>Clause A-1</u> TEST PROCEDURE FOR MEASURING SURFACE ROUGHNESS INDEX OF THE RIDING SURFACE OF A FLEXIBLE PAVEMENT

EQUIPMENT – British Towed Fifth Wheel Bump Integrator

Test Procedure:

The following test procedure shall be adopted for the test:

- (1) Check the installation and operation of the equipment is in order and meets the requirements prescribed in its operational manual. For example the towing hitch maintains the frame in a upright position but provides freedom of movement in longitudinal and transverse directions. The tyre pressure of wheels is as prescribed.
- (2) The instrument shall be calibrated prior to its use for measurement as prescribed in its operational manual.
- (3) The operators shall familiarize themselves with the Fifth Wheel Bump Integrator, operation using its Test Mode before commencing a survey.
- (4) A uniform speed of 30 km/hour, which is the specified operating speed of the British Towed Fifth Wheel Bump Integrator, shall be maintained during measurements. The readings shall be taken for each carriageway independently.
- (5) The equipment shall run on a lane in both the direction once and the average of two values taken for its roughness index.
- (6) Pavement unevenness/roughness of 3 lane carriageway shall be obtained from the average of the values of the 3 lanes recorded.
- (7) The surface roughness index value is obtained by using the following formula.

Roughness Index Value = B x R x 1 cm/km

W

Where

B = Number of Bumps in a section

W = Number of Wheel Revolution Counter

R = is a constant, 1000 nos. of wheel revolution counter per km

Length count of B = 1 cm

- (8) All data shall be properly recorded with appropriate referencing and stored in a prescribed manner as in the operational manual.
- (9) The roughness measurements shall be properly calibrated using the procedure recommended in the World Bank Technical Publication No. 46.

Permanent "Weigh-in-Motion" Setup

Deleted

A – 4 SPECIFICATIONS FOR BUILDING, SANITARY, ELECTRICAL AND MISCELLANEOUS WORKS

ENVIRONMENTAL MANAGEMENT PLAN

SI.# Environmental **Description** Issue 1 **Ambient Air Quality Construction Phase** Ambient air quality monitoring for 24 hours twice in a week during summer, winter and post monsoon seasons near residential areas in each of the contract packages, where construction activities are undertaken for parameters like SPM, SO₂, NO_X, CO & HC. In the event of violation of 24 hourly average Indian standard for residential areas, construction activities should be restricted from 6 am to 6 pm. **Construction Phase** 2 **Noise Quality** Leq day and Leq night to be monitored on monthly basis (other than for monsoon months) during construction phase near residential areas in each of the contract packages. In case of violations, construction activities are to be scheduled in such a way that the resultant noise levels are adhered to as per the standards. 3 Water Quality **Construction Phase** Monitoring of at least 4 grab samples of surface water and 2 grab samples of groundwater for physical, chemical and biological parameters - once during each season including monsoon season. 4 Soil Quality **Construction Phase** Monitoring of at least 1 grab sample of soil from each of the contract packages once during a season (other than monsoon season). The samples should be picked up from 60-70 m distance from centerline in the areas where construction activities are undertaken. The samples should be analyzed for heavy metals and oil & grease.

To implement the EMP, an Environmental Management Cell (EMC) should be constituted before start of the construction work. EMC will undertake environmental monitoring and audits during construction and operation phases of the project and will check that environmental management measures are satisfactorily implemented with appropriate environmental performance. Specialized training should be imparted to construction Employers, contractors, staff and workers for effective implementation of the suggested EMP.

TRAFFIC SAFETY AND CONTROL

1. Description

These specifications describe the traffic management and safety measures to be taken by the Contractor throughout the construction period for ensuring the safe and convenient passage of public traffic through the project road on one hand and safety of the project workers on the other. It shall be understood that the Contractor is solely responsible for all the traffic management and safety measures which should be got approved by the Employer prior to taking up any construction work on the project.

Any construction work on or near a public traveled way will pose a set of new situations, which may include diversion of road users on to unfamiliar paths, exposure of road users to moving construction equipment and workers, stacking of construction materials to cause reduction in the space available for public traffic, inadequate space for maneuvering, etc. which may pose several surprises. These may cause to develop hazardous situations in case adequate advance precautions in the form of notification, traffic etc. is not taken. Within the construction area itself, the workers may be handling materials like hot bitumen and moving road construction equipment which may prove to be a cause of serious accident if adequate precaution and safety measures are not taken. Thus, the guiding principles on which the Contractor shall base the traffic management and safety measures will include:

- i) advance warning of road users about the road situation including diversion ahead.
- ii) providing clear and safe demarcated channels for guiding the public traffic.
- iii) providing necessary traffic warning/ guiding devices such as signs, safety cones, pavement markings, red lights, reflecting studs/tapes, etc.
- iv) barricading construction area with CGI sheets so that public traffic steer clear of these and do not come into conflict with construction activities.
- v) providing the project workers with necessary safety gears such as gum boots, luminous yellow jackets, crash helmets etc. as appropriate.
- vi) taking all other necessary measures so that safety is ensured during all hours of day and night.

2. Overlay works Involved in the Project

The Overlay works will have impact on movement of public traffic in the project:

3. Traffic Management and Safety

Any construction activity on the project will pose a hazardous situation to the road users. For least disturbance to safe passage of public traffic appropriate traffic management and safety measures should be adopted throughout the construction period. In this regard, the construction zone in which conflict from safety angle may arise between the road users on one hand and the construction activities on the other shall be divided into 4 sub zones, and safety measures to be adopted therefore shall be as described hereunder:

a) Advance Warning Zone

This warning sub-zone is meant to inform, alert and prepare the approaching driver well in advance by providing information regarding the distance and extent/type of hazard ahead so that he is able to reduce the speed and be in readiness to carry out the necessary manoeuvres as he meets with the changed situation. For the operating speeds on the project road, length of this sub-zone shall be 100 mtr. and 500 m, in plain and hilly terrain respectively. Information in this sub-zone will be conveyed through a series of traffic signs, which will include "Men at Work" and the speed reduction signs at the start and middle of this sub-zone.

b) <u>Transition Sub-Zone</u>

This sub-zone is the area in which the traffic is steered and guided into and out of the diverted path around the work sub-zone. This is the most crucial sub-zone from safety angle as vehicles have to be guided on to the diverted path, and most of the movements will be of turning type. The elements for designing this sub-zone are speed of the vehicles, extent of lateral shift and elevation difference between the normal and the diverted paths. The essential safety measures shall include delineation of the travel path and prevention of wayward movements of vehicles by means of barricades, channelizers, red cones, and red lamps during hours of darkness etc., as appropriate.

In the design of this sub-zone adequate attention shall be paid for providing necessary turning radius of the curves, grade to permit for safe passage of animal driven vehicles, drainage and dust-proofing. Where necessary traffic control shall be effected through manual flagging and by battery operated traffic lights during hours of darkness. Where vehicles have to wait, the waiting area shall be demarcated by stop lines.

Length of the sub-zone will generally be between 50 and 100 m.

c) Work Sub-Zone

This is to the area where construction activity takes place, and the main concern relates to safety of workers are also prevention of public traffic from entering the work area. In this sub-zone, path of traffic shall be clearly delineated to avoid intrusion of public traffic moving on to the work area or construction equipment moving on to the public traffic. It shall be ensured that adequate distance is available between 2 consecutive work zones (2 Km. on urban section and 5-10 km. in rural sections) so that vehicles get sufficient breather space for overtaking slow vehicles, lane adjustment etc. Traffic across this sub-zone shall be guided through with the help of various traffic control devices, such as signs, delineation of travel path by cones/drums, barricades, luminous tapes etc. as appropriate.

d) Termination Sub-Zone

The sub-zone is intended to inform the road users of the end of the construction zone. This shall be effected through suitable informatory sign boards.

The standard on "Safety During Construction" may be referred for compliance.

4. Traffic Control Devices

Traffic control devices in the construction zones perform the crucial task of warning, informing and alerting drivers apart from guiding the vehicle movements so that the drivers of the vehicles as well as the workers on site are not faced with situations posing surprise/hazard, and safe passage to traffic is affected.

The primary traffic control devices used in work sub-zone are signs, delineators, barricades, cones, pylons, pavement marking, flashing lights etc. They shall be such that they are easily understood without any confusion, are clearly visible during day and night, conform to the prevailing speed in immediate vicinity, stable against sudden adverse weather conditions and are easy in installation, renewal and maintenance. Broad details of the different devices are hereunder:

a) <u>Signs</u>

The construction signs fall into 3 major categories namely, regulatory signs, warning signs and guide or informatory sign as defined and detailed in IRC:67-1977, Code of Practice for Road Signs. These signs shall be placed on the left hand side of the travel path.

The common Regulatory signs used in the construction zones are "No Entry", "Road Closed", "Speed Limit" etc. These shall be used in consultation with the local police and / or authorities.

The warning signs to alert the drivers of the possible danger ahead in the construction zones are "Lane Closed", "Diversion to other carriageway", "Divided carriageway Starts", "Divided carriageway End", "Two way Traffic" etc. It will be advisable to explain the signs with the help of a rectangular definition plate of size of appropriate to the size of warning triangle and placed 0.15 m below, from the bottom of the triangle.

Guide signs in construction zones shall different background colour than the normal informatory signs of IRC: 67-1977, These signs shall have black messages and arrows on yellow (Traffic Yellow of IS: 5-1978) background. The guide signs to e commonly used are "Diversion "Road Ahead Closed", "Sharp Deviation of Rout" etc.

The commonly used temporary signs during construction are depicted in the drawings. These should preferably be of reflectorised type to be visible during hours of darkness.

b) Delineators

Delineators are channelising devices such as cones, traffic cylinders, tapes, drums etc. which are placed in or adjacent to the roadway to guide the driver along a safe path and to control the flow of traffic. These shall normally be retro-refelectorised for night visibility. IRC: 79-1981 (Recommended Practice for Road Delineators) gives details of some of the delineators. The types of delineators commonly used are traffic cones, drums and barricades.

c) Traffic Cones

Traffic cones shall normally be 0.5 m to 0.75 m high and 0.3 m to 0.4 m diameter or in square shape at the base. These shall be made of plastic or rubber with retro reflectorised red and white band and have suitable anchoring so that they are not easily blown over or displaced. The cones shall be placed close enough together (spacing 3-9m) to give an impression of the continuity. Larger sized cones shall be used for high speeds or where more conspicuous guidance is required.

d) Empty Bitumen Drums

Empty bitumen drums can be used as channelising device since they are highly visible, give the appearance of being formidable objects, thereby commanding the respect of the drivers. These drums can also be of plastic which are lighter, easy to transport and store. As delineators, these drums shall be painted in circumferential strips 0.10 m to 0.15 wide, alternatively in black and white colours.

e) Barricades

When ever the traffic has to be restricted from entering the work areas such as excavations or material storage sites so that hazardous locations are barred for public and protection to workers is provided, or there is need for separation the two way traffic, barricades shall be used. The barricades may be of portable or fixed type and can be made of wooden planks, metal or other suitable material. The horizontal component facing the traffic shall be made of 0.30 m wide wooden planks joined together and painted in alternate yellow and white strips of 0.15 m width and sloping down at an angle of 45° in the direction of traffic. Suitable support or ballasting shall be provided so that they do not over turn or are not blown away in strong winds. In case of fixed type barricades, a gate or moveable section shall be separately provided to allow the movement of the construction/supervision vehicles.

f) Flagmen

In large construction sites, flagmen with flags and sign paddles shall be effectively used to guide the safe movements. The flags for signaling shall be 0.60m x 0.60m size made of good red cloth and securely fastened to a staff of approximately 1 meter in length. The sign paddles shall conform to IRC:67-1977 and provided with a rigid handle.

For one-way operation at a time hours of darkness, battery operated red/green lights shall be used at either end of the affected section.

5. Safety and Management Practices

Measures for providing safe movement of traffic in some of the most commonly occurring work-zones on highways shall be as follows:

a) <u>Detour on Temporary Diversion</u>

In certain situations during the project construction period it may become necessary to pass the traffic on temporary diversion constructed parallel to highway.

A temporary diversion road shall basically satisfy the following requirements

It shall have smooth horizontal and vertical profile for easy negotiation by vehicles.

- It shall not get overtopped by flood or drainage discharge under any circumstances.
- ❖ It shall have adequate capacity to cater for the diverted traffic
- ❖ It shall be dust free and shall ensure clear visibility at all times of the day and night. Pavement and riding surface for the diversion will depend on the duration over which the diversion will be used, and shall be as directed by the Employer. The commonly used specifications are mix seal surfacing over 150-200 mm thick WMM constructed on completed sub-grade.
- It shall be provided with the required safety standards and

The warning for the construction ahead shall be provided by the sign "Men at Work" about 1 Km. in advance of the work zone. In addition a supplementary plate indication "Diversion 1Km. Ahead "and a sign "Road closed Ahead" shall be placed. It shall be followed by "Compulsory Turn right/left sign". The "Detour" and sharp deviation" sign shall be used to guide the traffic on to the diversion. Hazard markers shall be placed where the railings for the cross drainage structures on the diversion start.

b) Switch over of traffic from widened section and vice-versa

In the course of construction widening of the carriageway will have to be taken up in course of construction widening of the carriageway will have to be taken up in stretches with intervening space between two such stretches. This will bring about the situations in which the traffic passing through the widened road would have to pass on and merge with the unwidened section and vice-versa. For such cases, apart from "Men At Work" signs with distance plate in the advance warning zone, the signs indicating "Road Narrowing" or "Road widening" as appropriate shall be installed.

6. Precautions for Safety

The following general precautions shall apply to all the work sites.

a) General Measures

- i) All the sign and delineators shall be maintained in clean and brightly painted conditions at all times.
- ii) Adequate lighting arrangements shall be made for proper visibility during night travel through the work area.
- iii) Adequate arrangements for frequent sprinkling of water shall be made to keep the area dust free.

b) For Safety of Workmen

- i) Workmen shall be trained in use of tools and plant.
- ii) Bitumen handling labour shall be given gum boots, spectacles etc.
- iii) First –aids kits shall be provided
- iv) Workers required on site during night hours shall be provided with fluorescent jackets with reflective tapes.

c) For Safety of Road User

- i) As far as possible, the material, equipment and machinery shall be installed/parked in places sufficient away fro the berms in the available road land. Only in avoidable cases the same is allowed near the edge of berms.
- ii) Machinery shall be parked at appropriate places away from the path of public traffic, and shall be provided with red flags and red lights.
- iii) Only minimum quantity of material required for the construction operations shall be collected at site near the public traveled way.

7. Safety Audit

Safety audit shall be conducted periodically on the safety measures adopted during the constructions operations. The main aspects to be covered shall include:

- a) Manpower and their safety
- b) Machinery
- c) Temporary works
- d) Equipment & Vehicles
- e) Material storage and handling
- f) Construction procedures
- g) Environment
- h) Site safety guidelines
- i) Miscellaneous services

The contractor shall constitute special teams from his staff for the above audit, and shall take appropriate corrective measures to the directions of the Employer.

Annexure - 5C

(Refer Sub Clause 115.2 of STS)

WIDENING OF EXISTING BRIDGES – METHODOLOGY

REPAIR AND WIDENING OF EXISTING BRIDGES-METHODOLOGY

<u>Annexure – 5E</u> (Refer Sub Clause 309.6 of STS)

CHUTE DRAIN FOR HIGH EMBANKMENT SECTIONS

REPAIR OF CORRODED REINFORCEMENT

<u>Annexure – 5G</u> (Refer Sub Clause 2803.1.1 of STS)

REPAIR OF CRACKS WIDTH MORE THAN 0.2 MM WITH **SOUND CONCRETE SURFACE**

Annexure – 5 H

(Refer Sub Clause 2804.1.2 of STS)

REPAIR OF HONEYCOMBS AND SPALLINGS

Volume-2

SECTION 6 BILL OF QUANTITIES

PREAMBLE

Bill of Quantities for Restoration Works:

- 1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, General and Special Conditions of Contract, Technical Specifications and Drawings.
- 2. The quantities given in the Bill of Quantities are estimated and are given to provide a common basis for bidding. The Contractor to measure the work under the observation and control of the Engineer, which shall be valued at the rates provided in the priced Bill of Quantities, where applicable, and otherwise at such rates as the Engineer may fix within the terms of the Contract, which shall form the basis for payments to the Contractor.
- 3. The rates in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all construction plant, labour, supervision, materials, all temporary works and false works, erection, transportation, maintenance, insurance, administrative overheads, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract, and including remedy of any defects during the Defects Liability Period.
- 4. A rate shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates entered in the Bill of Quantities.
- 5. The costs of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities. Where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of work.
- 6. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Contract documentation shall be made before entering rates against each item in the priced Bill of Quantities.
- 7. The Bill of Quantities of the Work is comprised of the various Bills of construction activities. During execution, however, the items existing in any of the Bills can be made applicable for execution elsewhere also on the Works if considered appropriate and directed by the Engineer.
- 8. The method of measurement of completed work for payment shall be as per Specification.
- 9. Errors, if any, shall be corrected by Employer in terms of Clause 27 of ITB.

Annexure -1 Restoration Works Bill of Quantities

Sr.	Brief Description	Unit	Quantity -	Rate in INR		Amount in INR	
No.				Figure	Words	Figure	Words
1	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20-0.25 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom.	Sqm	4,32,006				
\2	Providing and laying bituminous concrete with VG-40 grade bitumen using 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 5.4 to 5.6 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH/IRC/NHAI specifications complete in all respects.	Cum	12,960				
3	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes.	Sqm	17,653				

Sr. No.	Brief Description	Unit	Quantity	Rate in INR		Amount in INR	
				Figure	Words	Figure	Words
4	Providing and Laying arrows on roads in two coats on new work with hot applied thermoplastic compound including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control as per IRC:35. The finished surface to be level, uniform and free from streaks and holes.,	No.	300				
5	Providing and fixing of road stud 100x 100 mm, 3M Double Shank PVC type, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973	Nos.	25,268				
	Total		,				

Note:

- 1. Above rate shall be inclusive of GST as per ITB Clause 42.1 and other applicable taxes
- 2. Item rate shall be inclusive of all material, manpower, equipment cost, royalties, transportation, etc.
- 3. Bill of Quantities duly filled and signed by authorized signatory of Bidder, on the letterhead of the Bidder to be attached to Form 7A- Form of Bid.

SECTION 7 SECURITIES AND OTHER FORMS

SECTION 7: SECURITIES AND OTHER FORMS

Form - 7A : Form of Bid

Form – 7B : Bid Security (Bank Guarantee)

Form -7C: Letter of Acceptance

Form – 7D : Performance Securities Bank Guarantee

Form – 7E : Performance Bank Guarantee (for Unbalanced Bids)

Form -7F : Form of Agreement

Form-7G: Deleted

Form – 7H : Bank Guarantee for Advance Payment

Forms of Securities

Acceptable forms of securities are annexed. Bidders should not complete the Performance and Advance Payment Security forms at this time. Only the successful Bidder will be required to provide Performance and Advance Payment Securities in accordance with one of the forms, or in a similar form acceptable to the Employer.

(Please refer Clause 18 of ITB)

FORM OF BID

(on the letterhead of the Bidder)

Date:

IL&FS Transportation Networks Limited

The IL&FS Financial Center, Plot C-22, G Block, Bandra Kurla Complex, Mumbai- 400051

Tel.: +91 022-26533333, Facsimile: +91 022-26523979

GENTLEMEN,

Sub.: Bituminous Overlay & Road Furniture Work for Patratu Dam – Ramgarh Road (RPR-II) in the State of Jharkhand (under JARDCL) – Length 27.118 Kms

- 2. I/ We acknowledge that the Employer will be relying on the information provided in the Bid and the documents accompanying such Bid for selection of the Bidder for the Overlay Works, and we certify that all information provided in the Bid is true and correct; nothing has been omitted which renders such information misleading; and all documents accompanying such Bid are true copies of their respective originals
- 3. We understand that you are not bound to accept the lowest or any Bid you receive.
- 4. Unless and until an Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding Contract between us, but without prejudice to your right to withdraw such acceptance under the provisions of the Bid Document.
- 5. We assure you that the criteria based on which we are eligible and qualified are valid as of date. I/ We undertake that in case due to any change in facts or circumstances during the Bidding Process, we are attracted by the provisions of disqualification in terms of the provisions of this Bidding Documents, we shall intimate the Employer of the same immediately.
- 6. I/ We shall make available to the Employer any additional information it may find necessary or require to supplement or authenticate the Bid.
- 7. We agree to abide by this Bid for the period of one hundred eighty (120) days from the closing date of Bid Submission, and it shall remain binding upon us and may be accepted at any time before the expiry of that period.
- 8. We understand that for this Bid, we shall comply with the Eligibility, Bid Validity and Bid Security required as stated in the Bidding documents. We attach herewith our current Income Tax clearance certificate.

- 9. We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988".
- 10. I/ We agree and undertake to abide by all the terms and conditions of the RFP document.

Yours faithfully,

Authorized Signature: Name & Title of Signatory: Name of Bidder with official seal: Address:

BID SECURITY (BANK GUARANTEE)

/HEREAS,
NOW ALL PEOPLE by these presents that We
HE CONDITIONS of this obligation are:
(1) If after Bid opening the Bidder withdraws his Bid during the period of Bid validity specified in the Form of Bid; or
(2) If the Bidder having been notified of the acceptance of his Bid by the Employer during the period of Bid validity:
(a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
(b) fails or refuses to furnish the Performance Security, in accordance with the Instruction to Bidders; or
(c) does not accept the correction of the Bid Price pursuant to Clause 27 of ITB;
We undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the mount claimed by him is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.
his Guarantee will remain in force up to and including 45 days after the Bid validity period as stated in the astructions to Bidders or as it may be extended by the Employer at any time prior to closing date for abmission of Bid, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this parantee should reach the Bank not later than the above date.
ATE SIGNATURE OF THE BANK
VITNESS SEAL
signature, name, and address]

(Letterhead paper of the Employer)

Letter of Acceptance

To:	[name and address of the Contractor]	[date]
-----	--------------------------------------	--------

Sub.: Bituminous Overlay & Road Furniture Work for Patratu Dam – Ramgarh Road (RPR-II) in the State of Jharkhand (under JARDCL) – Length 27.118 Kms

Dear Sirs,

- 1. It is hereby confirmed that your Bid received on _____ submitted to the ITNL, Mumbai for the work mentioned in the subject above has been accepted for and on behalf of the ITNL for an amount mentioned below on rates quoted by you and the terms and conditions as contained in Volume-1 and Volume-2 of bidding documents and subsequently addendum/corrigendum issued.
- 2. The accepted amount of the bid for the above mentioned work in consideration, execution, completion and maintenance of works by you as prescribed in the bidding documents is as under:

	Bid amount indicated	Amount of Bid after	Rebate offered	Bid Amount after
	by you (in Rs.)	arithmetical corrections		Rebate (in Rs.)
		(in Rs.)		
Overlay				
Works				
	TOTA	AL		

- 3. The net accepted amount of the Bid is Rs (Rs. *In words*).
- 4. The date of start will be as defined in S. No. 5 of Contract Data.
- 5. The period of completion of whole work is as defined in S. No. 10 of Contract Data as Contract Completion Date.
- 6. You are requested to please furnish the Performance Security in the form of Bank Guarantee for an amount equal to 10% of the Contract price within 21 days of receipt of this letter, in accordance with Clause 32 of ITB as defined in the Contract Data S. No. 19. The Bank Guarantee will be provided in the proforma given in the bidding documents.
- 7. You are also requested to sign and execute the Contract Agreement within 28 days, failing which action as stated in Para 32.3 of ITB will be taken.
- 8. You are requested to submit a detailed Construction Program including Environment and Traffic Management Plans as per Clause 25 of General Conditions of Contract, Section 3, Part-I within 21 days of receipt of this letter.

Yours faithfully,

Authorized Signatory Name and Title of Signatory Name of Agency

(hereinafter

PERFORMANCE SECURITIES BANK GUARANTEE

To

IL&FS Transportation Networks Limited The IL&FS Financial Center, Plot C-22, G Block, Bandra Kurla Complex, Mumbai- 400051 Tel.: +91 022-26533333, Facsimile: +91 022-26523979, Bank Guarantee No.-----dated ----- for Rs. -----WHEREAS vide the "Bituminous Overlay & Road Furniture Work for Patratu Dam - Ramgarh Road (RPR-II) in the State of Jharkhand (under JARDCL) - Length 27.118 Kms" Contract dated (hereinafter referred to as "the Contract"), [name of Contractor] a company incorporated under the Companies Act, 1956 and having its registered office at referred to as the 'Contractor' which expression shall unless repugnant to or inconsistent with the context mean and include its successors and assigns) has been awarded by IL&FS Transportation Networks Limited, having its registered office at IL&FS Transportation Networks Limited, The IL&FS Financial Center, Plot C-22, G Block, Bandra Kurla Complex, Mumbai- 400051 (hereinafter referred to as the 'Employer' which expression

(RPR-II) in the State of Jharkhand (under JARDCL) – Length 27.118 Kms".

AND WHEREAS it has been stipulated by you in the Bid proposal and the said Contract that the Contractor shall furnish you a Performance Guarantee on or before the date of signing of the Contract, by a specified nationalized/scheduled bank for the sum specified therein as security for compliance with the Contractor's obligations in accordance with the Contract and against any breach or non-performance of the terms and conditions contained in the Contract;

shall unless repugnant to or inconsistent with the context mean and include its successors and assigns), the contract for the works "Bituminous Overlay & Road Furniture Work for Patratu Dam - Ramgarh Road

AND WHEREAS WE,	[name of Bank], a body corporate,	constituted under [relevant Act]
and having its head office at	and branch office at	have agreed to furnish a
Performance Guarantee for a sum of Rs_	(Rupees	Only) (hereinafter referred as the
guaranteed amount) as security for compliant	ance of the Contractor's obligations	under the Contract:

NOW THEREFORE we hereby affirm that we, as the Guarantor, are responsible to you, on behalf of the Contractor for the guaranteed amount and we irrevocably undertake to pay you, upon your first written demand and without demur or argument, any sum or sums within the limits of the guaranteed amount as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified herein. The guaranteed amount shall be payable merely on demand by the Employer. Any certification or letter stating that the amount claimed in the demand notice is due and payable, signed by a duly authorised official of the Employer to this effect, shall be final, binding and conclusive upon us.

WE hereby agree to pay on demand the guaranteed amount without demur by crediting to the Bank Account of the Employer, the details of which are to be informed to us by you during the validity of the guarantee.

We hereby undertake that this Guarantee is absolute, irrevocable and unconditional and shall be enforceable against us notwithstanding any security or securities comprised in any instrument executed or to be executed by the Contractor in favour of the Employer.

We hereby also agree that this guarantee shall not be wholly or partially satisfied or exhausted by any payments made to or settled with the Employer by the Contractor and shall be valid and binding on us and operative until the expiry of this Guarantee.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

The jurisdiction in relation to this Guarantee shall be the Courts at Mumbai and laws of India shall be applicable. This guarantee shall be valid up to 45 days beyond 12 months after Overlay Works Completion Date ______ (Expiry Date). We hereby agree to renew and extend the validity of this Guarantee on request from you. Unless a demand or claim is lodged within the aforesaid time i.e. before Expiry Date, your rights under this Guarantee shall be forfeited and we shall not be liable there under.

WE hereby represent that there is no litigation or arbitration or other proceedings pending against us which could reasonably be expected to have a material adverse effect or change in our ability to perform our obligation under this Guarantee.

No	twithstanding anything contained herein:
a)	our liability under this Guarantee shall not exceed the guaranteed amount i.e. Rs (Rupees Only)
b)	this guarantee shall be valid up to (Expiry Date) and
c)	we shall be liable to pay the guaranteed amount under this Guarantee only and only if we receive a writter claim or demand duly signed by a duly authorised official of the Employer before the as mentioned above or any other extended date.
IN	WITNESS WHEREOF we have executed this Guarantee on this day of
	and delivered by the above named through its Authorised Signatory as authorised by its ard Resolution passed on/Power of Attorney dated [].

12

In the presence of

(Please refer Clause 1.1 of GCC and S. No. 5 of Contract Data)

(Letterhead of the Employer)

(Please refer Clause 31 of ITB)

FORM OF AGREEMENT Agreement

GENTLEMEN

400 incl and	051, Incude its addres	greement, made the	s the context otherwise requires					
Wo 27.1 exe	rk for l 118 Km cution a	as, Employer is desirous that Contractor to execute works "Bituminous for Patratu Dam – Ramgarh Road (RPR-II) in the State of Jharkha Kms" (hereinafter called "the Works") and the Employer has accepted to and completion of such Works and the remedying of any defects the Contract.	nd (under JARDCL) - Length he Bid by the Contractor for the					
NO	W THIS	THIS AGREEMENT WITNESSETH as follows:						
1.	In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.							
2.	In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned the Contractor hereby covenants with the Employer to execute and complete the Works and remedy and defects therein in conformity in all aspects with the provisions of the Contract.							
3.	The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.							
4.	The fo	The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:						
	i)	Letter of Acceptance;						
	ii)	Contractor's Bid;						
	iii)	Contract Data;						
	iv)	Conditions of Contract (including Special Conditions of Contract);						

Specifications;

Drawings; if any

Bill of Quantities

Any other document forming part of the Contract.

v)

vi)

vii)

viii)

In witness whereof, the parties thereto have caused this Agreement to be executed the day and year first before written.

Signed, Sealed and Delivered by the said Employer through his authorized representative and the said Contractor through his Power of Attorney Holder:

FOR AND ON BEHALF OF	Wi	tness:	
IL&FS Transportation Networks Limited(ITNL) By		Signature	
		Name	
		Address	
AUTHORIZED REPRESENTATIVE			
	2)	Signature	
		Name	
		Address	
FOR AND BEHALF OF	1)	Signature	
M/s By		Name	
		Address	
AUTHORIZED REPRESENTATIVE			
	2)	Signature	
	2)		
		Name	
		Address	

(Please refer Clause 1.1 of GCC and S. No. 5 of Contract Data)

(Letterhead of the Employer)

BANK GUARANTEE FOR ADVANCE PAYMENT

To, IL&FS Transportation Networks Limited The IL&FS Financial Center,
Plot C-22, G Block, Bandra Kurla Complex, Mumbai- 400051
Bank Guarantee Nodated for Rs
WHEREAS vide the "Bituminous Overlay & Road Furniture Work for Patratu Dam – Ramgarh Road (RPR-II) in the State of Jharkhand (under JARDCL) – Length 27.118 Kms" Contract dated ————————————————————————————————————
AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you a Advance Payment Guarantee security, at the time of forwarding a request for Advance payment, from a specified nationalized/scheduled bank , for the sum proposed to be released as Advance Payment in accordance with the terms and conditions of the Contract.
AND WHEREAS WE, [name of Bank], a body corporate, constituted under [relevant Act] and having its head office at and branch office at have agreed to furnish a Advanced Payment Guarantee for a sum of <i>Rs</i> (<i>Rupees Only</i>) (hereinafter referred as the guaranteed amount) as security for compliance of the Contractor's obligations under the Contract;
NOW THEREFORE we havely offere that we as the Commutan are nonegital to you as helpf of the

NOW THEREFORE we hereby affirm that we, as the Guarantor, are responsible to you, on behalf of the Contractor for the guaranteed amount and we irrevocably undertake to pay you, upon your first written demand and without demur or argument, any sum or sums within the limits of the guaranteed amount as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified herein. The guaranteed amount shall be payable merely on demand by the Employer. Any certification or letter stating that the amount claimed in the demand notice is due and payable, signed by a duly authorised official of the Employer to this effect, shall be final, binding and conclusive upon us.

WE hereby agree to pay on demand the guaranteed amount without demur by crediting to the Bank Account of the Employer, the details of which are to be informed to us by you during the validity of the guarantee.

We hereby undertake that this Guarantee is absolute, irrevocable and unconditional and shall be enforceable against us notwithstanding any security or securities comprised in any instrument executed or to be executed by the Contractor in favour of the Employer.

We hereby also agree that this guarantee shall not be wholly or partially satisfied or exhausted by any payments made to or settled with the Employer by the Contractor and shall be valid and binding on us and operative until the expiry of this Guarantee.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

The jurisdiction in relation to this Guarantee shall be the Courts at Mumbai and laws of India shall be applicable. This guarantee shall be valid up to 45 days beyond the period of stipulated period of complete recovery defined in S. No. 18 of Contract Data ______ (Expiry Date). We hereby agree to renew and extend the validity of this Guarantee on request from you. Unless a demand or claim is lodged within the aforesaid time, i.e. Expiry Date, your rights under this Guarantee shall be forfeited and we shall not be liable there under.

WE hereby represent that there is no litigation or arbitration or other proceedings pending against us which could reasonably be expected to have a material adverse effect or change in our ability to perform our obligation under this Guarantee.

Notwithstanding anything contained herein:

a)	our liability under the	this Guarantee	shall not	exceed	the	guaranteed	amount i	i.e.	Rs	(Rupees
	Only)										
1_ \	this assaurants a shall b			(E-mi	T	latal and					

- b) this guarantee shall be valid up to _____ (Expiry Date) and
- c) we shall be liable to pay the guaranteed amount under this Guarantee only and only if we receive a written claim or demand duly signed by a duly authorised official of the Employer before the _____ as mentioned above or any other extended date.

IN WITNESS WHEREOF we have executed this Guarantee on this ___ day of ____, ___.

Signature Date and place