

REQUEST FOR BID
(RFB)

Elsamex Maintenance Services Limited (EMSL)

Operation & Maintenance of Baleshwar Kharagpur Section of NH-60 from Km 0+000 to Km 119+300 in the State of Odisha & West Bengal

Execution of Pavement Marking with Hot Applied Thermoplastic Materials with Surface Application of Glass Beads at Specified Rate as per Technical Specification MoRTH Clause 803, IRC 35:2015 & Other Applicable Codal Provisions and as directed by Engineer In-charge.

Document Downloading Date	From August 25, 2022 (11.00 Hrs.) to September 01, 2022 (11.00 Hrs.)
Last Date And Time for Receipt of Bids	September 01 2022 at 18.00 Hrs.
Place of Opening of Bids	Elsamex Maintenance Services Limited 25 th Floor, GIFT 1 Tower, GIFT City, Gandhinagar, Gujarat 382355 Tel.: +91 – 99099 41752 E-mail: tender.emsl@itnlindia.com,
Officer Inviting Bids	Mr. Parag Phanse / Mr. V. K. Tripathi 25 th Floor, GIFT 1 Tower, GIFT City, Gandhinagar, Gujarat 382355 Tel.: +91 – 99099 41752 E-mail: tender.emsl@itnlindia.com, Website: www.itnlindia.com

**Elsamex Maintenance Services Limited
(EMSL)**

BID DOCUMENT

For

**Operation & Maintenance of Baleshwar Kharagpur Section of NH-60 from Km 0+000
to Km 119+300 in the State of Odisha & West Bengal**

**Execution of Pavement Marking with Hot Applied Thermoplastic Materials with Surface
Application of Glass Beads at Specified Rate as per Technical Specification MoRTH Clause 803,
IRC 35:2015 & Other Applicable Codal Provisions and as directed by Engineer In-charge**

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VOLUME 1

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Elsamex Maintenance Services Limited (EMSL)

25th Floor, GIFT 1 Tower, GIFT City, Gandhinagar, Gujarat 382355

E-mail: tender.emsl@itnlindia.com, Website: www.itnlindia.com

CIN: U45201MH2013FLC285659

INVITATION FOR BID

Date: August 25, 2022

Sub.: Operation & Maintenance of Baleshwar Kharagpur Section of NH-60 from Km 0+000 to Km 119+300 in the State of Odisha & West Bengal

Execution of Pavement Marking with Hot Applied Thermoplastic Materials with Surface Application of Glass Beads at Specified Rate as per Technical Specification MoRTH Clause 803, IRC 35:2015 & Other Applicable Codal Provisions and as directed by Engineer In-charge

Dear Sir,

- (1) M/s Elsamex Maintenance Services Limited (EMSL) hereby invites sealed Bid from contractors for the *Work* of “**Execution of Pavement Marking with Hot Applied Thermoplastic Materials with Surface Application of Glass Beads at Specified Rate as per Technical Specification MoRTH Clause 803, IRC 35:2015 & Other Applicable Codal Provisions and as directed by Engineer In-charge at Baleshwar Kharagpur Section of NH-60 from Km 0+000 to Km 119+300 in the State of Odisha & West Bengal**”

The period for completion of the works shall be 7 months period and while you will be required to maintain the Road for a Defect Liability Period of 18 months thereafter.

- (2) Deleted
- (3) Bidding documents may be downloaded by the contractors, free of cost, from the Employer’s web site www.itnlindia.com from *August 25, 2022, 11.00 Hrs to September 01, 2022, 11.00 Hrs.*
- (4) **Bid Security: -**
Deleted
- (5) Bid must be send to email id tender.emsl@itnlindia.com, *in password protected file and password of bid shall be sent on rajnish.saxena@ilfsindia.com via soft copy mode (All the bids heavy in size can be submitted via link).*

- (6) Hard copy can be delivered to following location on or before September 03, 2022 by 18:00 Hrs.

Elsamex Maintenance Services Limited ,
25th Floor, GIFT 1 Tower, GIFY City, Gandhinagar, Gujarat 382355

Signature of Authorized Officer

Elsamex Maintenance Services **Limited**

SECTION 1:
INSTRUCTIONS TO BIDDERS
(ITB)

SECTION 1: INSTRUCTIONS TO BIDDERS

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A: GENERAL

1. Scope of Works

1.1 Elsamex Maintenance Services Limited, (hereinafter be referred to as the “Employer”) proposes to execute **Pavement Marking with Hot Applied Thermoplastic Materials with Surface Application of Glass Beads at Specified Rate at Baleshwar Kharagpur Section of NH-60 from Km 0+000 to Km 119+300 in the State of Odisha & West Bengal** hereinafter referred to as the “Works”.

1.1.1 The works detailed herein is an 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:

- a. Pavement Marking on Rigid Pavement with Hot Applied Thermoplastic Materials with Surface Application of Glass Beads at Specified Rate after removing existing marking, through cleaning of surface & applying primer as per Technical Specification MoRTH Clause 803, IRC 35:2015 & Other Applicable Codal Provisions and as directed by Engineer In-charge.
- b. Application of Primer prior to Execution of Marking and After Cleaning of Existing Surface.
- c. Scarification / Removal of Existing Marking Prior to Application of Fresh Pavement Marking

1.1.2 Defect Liability:

Subsequent to completion of the scope of works, Contractor shall be responsible for any defect arising in the executed work for a period of **18 Months from the Completion Certificate Date as specified in the Contract Data.**

The successful Bidder shall have full regard and be responsible for the safety of the Works/road users and all Project Site operations, 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 Traffic Management, in accordance with Annexure-5B of Supplementary Technical Specifications of Section 5 from the Start Date. The cost of, Barricading, traffic management, markings and signs, look-out persons, and other similar works needed during implementation of 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.

1.2 The Employer is now inviting bids for **Execution of Pavement Marking with Hot Applied Thermoplastic Materials with Surface Application of Glass Beads at Specified Rate at Baleshwar Kharagpur Section of NH-60 from Km 0+000 to Km 119+300 in the State of Odisha & West Bengal** as defined in the Contract Data and referred to as “Works”.

1.3 The successful Bidder will be expected to complete the works by the Date as specified in the Contract Data and thereafter responsible for the defects for a period of 18 months.

2. Deleted.

3. **Eligible Bidders**

3.1 All the bidders who will produce the certificate that they have successfully executed following Minimum Quantities in any one month of last three financial years are eligible to bid

Sr. No.	Item Description	Unit	Minimum Quantities Executed
1	Pavement Marking on Rigid Pavement	Sqm	10,000

Bidder has to provide details of work executed during last 3 years as per following table which shall be supported by requisite supporting documents i.e. Work Completion Certificate / Payment Received / Agreements/Work Order etc.

Sr. No.	Financial Year	Pavement Marking on Rigid Pavement	Maximum Quantity Executed in a Month of FY
1	FY 21-22		
2	FY 20-21		
3	FY 19-20		

3.2 Deleted

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), State Governments / EMSL / Developer and/or Statutory Authorities like National Highways Authority of India.

3.4 Deleted

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) Deleted
- (b) the certificate that they have successfully completed the quantities defined in clause 3.1 in any one month of the Financial Year during last 3 years; either in the same project or any other completed projects.
- (c) Deleted
- (d) Deleted
- (e) Income Tax Return of last 3 Financial Years
- (f) Deleted
- (g) Deleted
- (h) an undertaking confirming the validity of above information
- (i) No sub-contracting shall be allowed without the prior approval of Employer. However, Thermoplastic Paint Manufacturer can propose name of their applicator while submitting the Bid who will execute the Works. ***In case of subcontracting is done without approval, Employer reserves the right to terminate the contract.***
- (j) Deleted
- (k) deleted
- (l) Deleted

4.3 **Joint Venture: - Not Allowed, However, name of Applicator for Execution of work can be proposed by Thermoplastic Paint Manufacturer at the time of Bidding.**

4.4 Each Bidder shall demonstrate:

- (a) Deleted

(b) Deleted

(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 blacklisted 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**

Each Bidder shall submit only one Bid for the work.

6. **Cost of Bidding**

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**

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	Instructions to Bidders	Volume 1
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	
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 & Qualification Information

- a. Bid Security:- *Deleted*
- 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 Works 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 accordance with the Sealing and Marking instructions in Clause 19.

12.3 Following documents, which are not submitted with the bid, will be deemed to be part of the bid:

	<u>Invitation for Bids</u>
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 the 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 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 Deleted

16.2 Deleted

16.3 Deleted

16.4 Deleted

16.5 Deleted.

16.6 Deleted

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**". These envelopes (called as inner envelopes) shall then be put inside **one outer envelope**.

In addition to that soft copy of above bid also to be sent on email id: tender.emsl@itnlindia.com in password protected file and password of the softcopy of bid shall be sent on rajnish.saxena@ilfsindia.com, and the bids heavy in size can be submitted via link.

- 19.2 The **outer** and two **inner** (marked (I) and (II)) envelopes shall be

- a) addressed to the Employer at the following address:

Elsamex Maintenance Services Limited

25th Floor, GIFT 1 Tower, GIFT City, Gandhinagar Gujarat 382355

and

- b) bear the following identification on **Outer Single Envelope**:

“Execution of Pavement Marking with Hot Applied Thermoplastic Materials with Surface Application of Glass Beads at Specified Rate as per Technical Specification MoRTH Clause 803, IRC 35:2015 & Other Applicable Codal Provisions and as directed by Engineer In-charge at Baleshwar Kharagpur Section of NH-60 from Km 0+000 to Km 119+300 in the State of Odisha & West Bengal”

DO NOT OPEN ON OR BEFORE 1800 Hrs IST September 03, 2022

- 19.3 In addition to the identification required in Sub Clause 19.2, the 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 in Hard Copy must be received by the Employer at the address specified above no later than **1800 Hrs IST on September 03, 2022**. Soft copy of Bids must be received by the Employer at tender.emsl@itnlindia.com **no**

later than 1800 Hrs. on September 01, 2022 in password protected file and password of the softcopy of bid shall be sent on rajnish.saxena@ilfsindia.com.

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 project (except those received late). Subsequently, **Envelope (I)** marked 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 (II)** marked 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 cable, 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

- 26.1 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.
- 26.2 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 Work methods and schedule proposed.

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 who's Bid has been accepted will be notified of the award by the Employer prior to expiration of the Bid validity period by cable, telex or facsimile, and confirmed by registered 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 14 days following the issue of the Letter of Acceptance.

31.4 Upon Signing of Contract 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 and Tender conditions**

32.1 Within 7 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 works, in accordance with Clause 28.5 of ITB and Clause 48 of General Conditions of Contract of Section 3. 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 ₹ 500 crores as per the latest Annual Report of the Bank and that Bank Guarantee

32.2 Deleted

32.3 Failure of the successful Bidder to comply with the requirements shall constitute sufficient grounds for cancellation, cause for annulment of the award, forfeiture of the Bid Security, Performance Bank Guarantee 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.

Deleted

Annexure –1B
(Please refer Sub Clause 4.4 (b) of ITB)

Deleted

SECTION 2:

**QUALIFICATION INFORMATION
AND OTHER FORMS**

Table of Forms	Description	Page No
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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 Elsamex Maintenance Services 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. Details 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)

1.2. Deleted.

1.3. Deleted

1.4. Deleted

1.5. Deleted

Note:

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 5 years.

Project Name	Name of the Employer*	Description & Scope of work	Contract No.	Value of Contract (₹ Crore)	Date of issue of work order	Stipulated period of completion	Actual date of completion *	Remarks explaining reasons for delay & work Completed

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

(B) Current Commitments and Works in Progress

S N	Description of Work	Place & State	Name of the Employer	Contract No. and Date	Value of Contract (₹ Cr.) @	Stipulated Period of Completion Date	Value of works completed (₹ Cr.) @	Value of Works Remaining to be completed (₹ Cr.) @	Anticipated Completion Date	Role of Applicant* and Remarks
	TOTAL									

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

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

Note :

@ : 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, 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.

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 ELSAMEX MAINTENANCE SERVICES
LIMITED / ITS REPRESENTATIVES**

To
Name of Bank/Address/City

Dear Sirs:

We have recently submitted a Bid to Elsamex Maintenance Services Limited for implementing the Works **“Execution of Pavement Marking with Hot Applied Thermoplastic Materials with Surface Application of Glass Beads at Specified Rate as per Technical Specification MoRTH Clause 803, IRC 35:2015 & Other Applicable Codal Provisions and as directed by Engineer In-charge at Baleshwar Kharagpur Section of NH-60 from Km 0+000 to Km 119+300 in the State of Odisha & West Bengal”** We hereby authorize you to provide all information/data readily about us and our credit status, as may be required by Elsamex Maintenance Services Limited and you need not seek any clearance/opinion from us for providing the information/data to Elsamex Maintenance Services Limited and/or its authorized representatives.

Sincerely,

Authorized Signatory

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Part II	Special Conditions of Contract	60-65

SECTION: 3

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SECTION: 3

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PART – I GENERAL CONDITIONS OF CONTRACT (GCC)

A: GENERAL

The Contractor acknowledges the fact that the Concession Agreement between NHAI & the Concessionaire and Novation Agreement between EMSL and BKEL is always binding and terms of this Agreement are on back to back basis with the Concession & Novation Agreement (limited to the Scope defined in this Agreement) and in case of any discrepancy in whatsoever matter, the clauses of Concession & Novation Agreement shall prevail over & above this Agreement and the decision of NHAI/Independent Engineer (IE) / BKEL shall be binding to all the parties to this Agreement.

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 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 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 Completion Date of Pavement Marking Works. For this particular contract, Defects Liability Period is 18 months after the Completion Date of Pavement Marking Work.

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.

Authorized 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.

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

Pavement Marking Work Completion Date is the actual date of completion of Pavement Marking 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 execution or installation or maintenance of the Works.

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

Works means the Pavement Marking 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:
 - a) Agreement (if completed)
 - b) Letter of Acceptance
 - c) Contractor's Bid
 - d) Contract Data
 - e) Conditions of Contract
 - f) Specifications

- g) Priced Bill of Quantities; and
- h) 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. Deleted

9.2. Deleted.

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 affect 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 from outstanding payments or from retention money.

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. The works mentioned in Provisional Sum of BOQ, Section 6, Volume 2 shall be undertaken with the approval of the Employer

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. Deleted.

17. Approval by the Employer

17.1. Deleted.

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 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. Please note that except time extension no other compensation shall be provided.

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

21.3. 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 14 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, if applicable (*as per IRC:SP:55-2014 and Annexure -5B*) 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 Works Completion Date

- 26.1. The Employer shall extend the 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 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 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 Works Completion Date.
- 26.3. Deleted.
- 26.4. Employer is fully empowered to grant extension to the Works Completion Date.
- 26.5. Force Majeure will be applicable on back-to-back basis as per relevant clause of Concession Agreement between NHAI and EMSL

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 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) Deleted.
- (vii) list of Variations, notices given etc.,
- (viii) Work 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 Works for Pavement Marking to be executed by the Contractor.

34.2. The Bill of Quantities shall be the basis to calculate the payment for Pavement Marking 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. *Elsamex Maintenance Services 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 works, shall be included in updated Programs produced by the Contractor.

36.3. Deleted

37. Payments for Variations

37.1. Deleted.

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.

37.3.

(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. Pavement Marking 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 be deemed to be covered by other rates and prices in the Contract.
- (f) The certification and payment methodology for 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.
- (v) 5% of Retention Amount shall be deducted from each RA Bill which shall be released on successful completion of Defect Liability Period of 18 Months which shall be considered from the date of Issue of Completion Certificate.

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

Deleted

44.2. Other Changes in Cost

Deleted

44.3. Adjustment Formulae

Deleted

44.4. Base, Current and Provisional Indices

Deleted

44.5. Limit of Price Adjustment

Deleted.

44.6. 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. Pavement Marking works

Penalty shall be applicable @ *0.5% value of the Contract Price per week* of delay for non- completion of the work within stipulated completion time. Maximum cumulative (total) penalty shall be applicable @10% 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) 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. **Performance Bank Guarantee (Securities)**

48.1. Contractor shall furnish a Performance Security to the Client / EMSL of a sum equivalent to 5% of Agreed Contract Value as security for due and faithful performance of its obligations, under and in accordance with the Agreement, during the Work Period which shall remain in force and effect for a period equivalent to DLP.

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 Works and the Employer shall do so upon deciding that the 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 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 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) Deleted;
- (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 work 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, 22.1 and 45.1;
- (j) 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;
- (l) 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, retention money recovered 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. 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 as may be required;
- (ii) Deleted
- (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) Deleted
- (vi) Employment of migrant labour;
- (vii) Establishing and operating labour camps;
- (viii) Location of fuel storage tanks / containers etc.;
- (ix) Deleted
- (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/as per Concession Agreement.

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 Gandhinagar 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.
- (f) Performance under the Contract shall continue during the arbitration proceedings and payments due to the Contractor by the Employer shall not be withheld, unless they are the subject matter of the arbitration proceedings.

B: MAINTENANCE MANAGEMENT SYSTEM

8. **Deleted**

9. **Deleted**

C: GENERAL MAINTENANCE REQUIREMENTS

10. **Maintenance Survey**

Deleted

11. **Management of Spoil and Excess Road Making Material**

Deleted

12. **Underground Sewer Pipelines**

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. Work Program, 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 all major activities.
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.

Annexure – 3B

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

SECTION 4:

CONTRACT DATA

CONTRACT DATA

Sr. No.	Item	Clause Reference of CC												
1	The Employer is : Elsamex Maintenance Services Limited 25th Floor, GIFT 1 Tower, GIFT City, Gandhinagar, Gujarat 382355 Tel.: +91 – 9909 41752 E-mail: tender.emsl@itnlindia.com Website: www.itnlindia.com Contact Person- Mr. Parag Phanse / Mr. V. K. Tripathi	1.1 GCC												
2	The Employer is Project Manager, EMSL	1.1 GCC												
3	The project work is Execution of Pavement Marking with Hot Applied Thermoplastic Materials with Surface Application of Glass Beads at Specified Rate as per Technical Specification MoRTH Clause 803, IRC 35:2015 & Other Applicable Codal Provisions and as directed by Engineer In-charge at Baleshwar Kharagpur Section of NH-60 from Km 0+000 to Km 119+300 in the State of Odisha & West Bengal.	1.1 GCC												
4	The Works consists of Execution of Pavement Marking & other items as per Bill of Quantities	1.1 ITB												
5	The Start Date (Commencement Date) shall be within 7 days from the date of issue of Letter of Award / signing of the Contract Agreement for the works whichever is earlier.	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	Deleted	9 GCC 4 ITB												
9	Insurance requirements are as under: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Sr. No.</th> <th style="text-align: left;">Description of Cause</th> <th style="text-align: left;">Minimum Cover of Insurance</th> </tr> </thead> <tbody> <tr> <td colspan="3"><i>During works</i></td> </tr> <tr> <td style="vertical-align: top;">i</td> <td>Contractor's All Risk Policy covering loss or damage to Works, Plant and Material for full replacement value including earthquake, terrorism, storm, tempest, flood, inundation cover & defect liability cover.</td> <td>Contract Price + 15% escalation</td> </tr> <tr> <td style="vertical-align: top;">ii</td> <td>Loss or damage to Machinery and Equipment</td> <td>Sum sufficient to provide replacement at site</td> </tr> </tbody> </table>	Sr. No.	Description of Cause	Minimum Cover of Insurance	<i>During works</i>			i	Contractor's All Risk Policy covering loss or damage to Works, Plant and Material for full replacement value including earthquake, terrorism, storm, tempest, flood, inundation cover & defect liability cover.	Contract Price + 15% escalation	ii	Loss or damage to Machinery and Equipment	Sum sufficient to provide replacement at site	13 GCC
Sr. No.	Description of Cause	Minimum Cover of Insurance												
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i	Contractor's All Risk Policy covering loss or damage to Works, Plant and Material for full replacement value including earthquake, terrorism, storm, tempest, flood, inundation cover & defect liability cover.	Contract Price + 15% escalation												
ii	Loss or damage to Machinery and Equipment	Sum sufficient to provide replacement at site												

Sr. No.	Item	Clause Reference of CC
	<p>iii Loss or damage to Property, other than (i) and (ii) above, in connection with the Contract ₹ 50 Lakh</p> <p>iv Personal injury or death insurance. Unlimited number of accidents. After each accident, Contractor will pay additional premium necessary to increase the limit make insurance valid for unlimited number of accidents always ₹ 5 Lacs per person per accident for unlimited number of accidents</p> <p>v Public Liability Policy</p> <p style="padding-left: 40px;">i) For duration of the Project – ₹ 1 Crore</p> <p style="padding-left: 40px;">ii) Any one accident – ₹ 0.50 Crore/accident</p> <p>vi Against liabilities for death or injury to any person or loss of or damage to any third-party property In accordance with statutory requirements, applicable in India.</p> <p>vii Advance Loss of Profit Policy Sum sufficient to cover anticipated loss</p> <p>viii Any other insurance cover In accordance with statutory requirements, applicable in India.</p> <p>Note: For the above purpose “Roads” include: Main road with service roads, subways, culverts, toe wall, dividing median, crash barriers, electrical poles, separator, public toilets etc. and other infrastructure related to insured trade including sign boards and other property of the project along with electrical fittings, side separator, crash barrier, dividing median various culverts, Cat Eyes, Delineators, W-Beam Crash Barrier, Gantry Sign Boards, Single led Sign Boards, Double legged Sign Boards, Cantilever Sign Boards, Bollards, Road Marking, and other properties of insured.</p>	
10	<p>Contract Completion Date for:</p> <p>i. Pavement Marking Works: - 7 Months from the Start Date of the Works</p> <p>ii. Defect Liability Period: - 18 months after Works Completion Date.</p>	14 GCC

Sr. No.	Item	Clause Reference of CC								
11	The Site Possession shall be given within one month from date of start	20 GCC								
12	The period between Program Updates shall 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	Penalty for not attending Management Meetings/ Site visits including Weekly Meetings: Rs 5000/- per incidence	28 GCC								
15	The following are Compensation Events unless they are caused by the Contractor: (a) Deleted	41 GCC								
16	Changes in Cost and Legislation / price adjustments	44 GCC								
17	Penalty and Liquidated Damages: <table border="1"> <thead> <tr> <th>S. No.</th> <th>Particulars</th> <th>Penalty / Liquidated Damages</th> <th>Limit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Delay of work</td> <td>Penalty shall be applicable @ <i>0.5% value of the Contract Price per week</i> of delay for non-completion of the work within stipulated completion time.</td> <td>Maximum cumulative (total) penalty shall be applicable @10% of the Contract Price</td> </tr> </tbody> </table>	S. No.	Particulars	Penalty / Liquidated Damages	Limit	1	Delay of work	Penalty shall be applicable @ <i>0.5% value of the Contract Price per week</i> of delay for non-completion of the work within stipulated completion time.	Maximum cumulative (total) penalty shall be applicable @10% of the Contract Price	45 GCC
S. No.	Particulars	Penalty / Liquidated Damages	Limit							
1	Delay of work	Penalty shall be applicable @ <i>0.5% value of the Contract Price per week</i> of delay for non-completion of the work within stipulated completion time.	Maximum cumulative (total) penalty shall be applicable @10% of the Contract Price							
18	Deleted	46 GCC								
19	(i) Interest free Material Advance aggregate amounting to 10% of Contract Value against Bank Guarantee valid up to scheduled work completion date of same amount in a manner & format mutually agreed by the Parties. The Recovery of material advance shall be made proportionately from each monthly RA Bills in a manner commencing on achievement of financial progress of 20% of contract value and shall be completed before 90% of Contract Values disbursed to the Contractor Form 7H in Section 7 of the Bidding Documents.	47 GCC								
20	Performance Bank Guarantee:- 5% of Agreed Contract Value valid till end of DLP Form 7I in Section 7 of the Bidding Documents.	48 GCC								

Sr. No.	Item	Clause Reference of CC
21	The Defects Liability Period cum Maintenance Works Period is 18 months after the Works Completion Date.	32 GCC
22	Deleted	53 GCC
23	Deleted	55.1 GCC
24	Deleted	125 of STS
25	Deleted	126 of STS
26	The Contractor shall solely be responsible for implementation of Traffic Management and Diversion during execution of awarded work as per IRC:SP:55-2014 “Guidelines on Traffic Management in Work Zones, other relevant IRC Codes, Clause 112 of Specifications for Road & Bridge Works (5th Revision) and as per Annexure -5B of RFB Volume I. <i>Failing to adhere to implement Traffic Management, Diversion and Safety as per agreed & defined norms shall called for deduction of 2% of amount from each Running Account Bill of the Contractor as penalty.</i>	Annexure -5B
27	Contractor must have to carry out all Quality Test relevant Test as per relevant applicable MoRTH & IRC Specifications and shall provide test report with RA Bills.	

SECTION 5: SPECIFICATIONS

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SECTION: 5

SPECIFICATIONS

1. Technical Specifications Governing Design and Execution of Work

- 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:

The project / project facilities under this contract shall conform to the minimum design requirements set out in the Concession Agreement.

2.1 Codes and Standards

The codes and standards applicable for the work are the codes and standards mentioned in the Concession Agreement:

- (A) Indian Road congress (IRC) codes, standards and Publications
- (B) Ministry of Road Transport & Highways (MoRT&H) specifications.
- (C) Bureau of Indian Standards (BIS)
- (D) Manual of Specifications and Standards for Four Laning of Highways through Public Private Partnership (IRC:SP:84:2009)

The terms Ministry of Road Transport & Highways (MoRT&H) and Ministry of Surface Transport (MOST) shall be considered as synonymous to each other.

Where the aforesaid codes, standards and specifications are silent on any aspect or there is any confusion in the interpretation of the clauses, the following standards in order of preference shall be adopted in consultation with Employer, unless otherwise specified in the Concession Agreement:

- (A) American Association of State Highway and Transport Officials (AASHTO)

- (B) Geometric Design Standards of Ontario Highways
- (C) American Society of Testing Materials (ASTM)
- (D) British Standards (BS)
- (E) Suitable specification/ standard devised by the IE
- (F) Any other standard proposed by the Concessionaire

Wherever these are silent, completion of the Works shall conform to Good Industry Practices, and in case of any dispute arising out of the interpretation of the above, the decision of Employer shall be final on the Contractor.

The work shall be executed as per Indian Roads Congress codes, and standards, supported by MoRT&H SPECIFICATIONS FOR ROAD AND BRIDGE WORKS (Fifth Revision) 2013 and the standards and specification of Railways. Where relevant, the designs shall also satisfy the Indian Standard Codes, and any other codes referred to in these IRC Codes and MoRT&H specifications.

2.2 Project Site Specific Requirements

- (A) The stone used for any construction shall be as per codal provisions.
- (B) Bricks shall be as per codal provision and to be approved before use.
- (C) Cement used shall be 43 grade for PQC, PCC and 53 grade for DLC, RCC and PSC works in bridges, provided all other criteria are met. The brand of cement shall be same as that as approved in the mix design.
- (D) Steel shall be used from a reputed & approved manufacturer with ISI authentication.
- (E) The miscellaneous material like bearings, geo textile, pipes etc. shall be bought from the reputed/ MoRT&H approved suppliers and shall be tested for the satisfaction of Employer.
- (F) The project area falls in Seismic zone III.
- (G) The exposure condition may be taken as “moderate”.

2.3 Units of Measurement:

All measurements shall be made in the metric system. Different items of work shall be measured in accordance with the procedures set forth in relevant sections read in conjunction with the General and special conditions of the contract.

All measurements and computations/unless otherwise indicated shall be carried nearest to the following limits.

- | | |
|-----------------------|-------|
| 1. Length and breadth | 10 mm |
|-----------------------|-------|

- | | | |
|----|--|---------------|
| 2. | Height, depth or thickness of earth work, CC work, structural member, etc. | 5 mm |
| 3. | Area | 0.01 sq.metre |
| 4. | Cubic contents | 0.01 cu.metre |

In recording dimensions of work the sequence of length, width and height or depth or thickness shall be followed.

2.4 Performance Standards For the Work:

The Performance Standards define the level at Project is to be constructed and the Works carried out and shall be in line with the Concession Agreement. The Work requirements shall be as delineated in the technical specifications, and to the tolerances for various items mentioned thereof.

- (A) Special emphasis is drawn to Chapter 900 of the MoRT&H Specifications.
- (B) Employer may carry out periodic inspection and audit of the components of the Project Highway and appurtenances.
- (C) The pavement roughness on completion of construction shall be 1800 (One thousand eight hundred) mm for each Km.
- (D) Longitudinal and cross profile of the roadway i.e., slope and camber shall conform to design requirements;
- (E) Signs and Markings and all road furniture shall be constructed to adhere to the specifications specified.

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.

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. The following Clauses in the “MORTH SPECIFICATIONS” have been amended/modified/ added upon:

106, 108, 109, 111, 112, 120, 501, 502, 503, 507, 803, 900, 901, 1007, 1014, 1404.
3. 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 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 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.

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TRAFFIC SAFETY AND CONTROL

1. Description

The Contractor shall solely be responsible for implementation of Traffic Management and Diversion during execution of awarded work as per IRC:SP:55-2014 “Guidelines on Traffic Management in Work Zones, other relevant IRC Codes, Clause 112 of Specifications for Road & Bridge Works (5th Revision) and as per details provided herein.

These specifications describe the traffic management and safety measures to be taken by the Contractor throughout the execution 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 Work on the project.

Any 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 Work equipment and workers, stacking of work 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 Work area itself, the workers may be handling materials like hot bitumen and moving work 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 work area with CGI sheets so that public traffic steer clear of these and do not come into conflict with execution 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. Works Involved in the Project

The Pavement Marking **Works will** have impact on movement of public traffic in the project:

3. Traffic Management and Safety

Pavement marking 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 execution of pavement marking period. In this regard, the work zone in which conflict from safety angle may arise between the road users on one hand and the pavement marking 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) Transition Sub-Zone

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 Pavement Marking 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 pavement marking 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 work zone. This shall be effected through suitable informatory sign boards.

The standard on “Safety During Pavement Marking” may be referred for compliance.

4. Traffic Control Devices

Traffic control devices in the work 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) Signs

Traffic Signs fall into 3 major categories namely, regulatory signs, warning signs and guide or informatory sign as defined and detailed in IRC:67-2012, Code of Practice for Road Signs (Third Revision). These signs shall be placed on the left hand side of the travel path.

The common Regulatory signs used in the work 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 work 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 work zones shall different background colour than the normal informatory signs of IRC:67-2012, 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 execution of work are depicted in the drawings. These should preferably be of reflectorized 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-reflectorised for night visibility. IRC: 79-2019 (Recommended Practice for Road Delineators – *First Revision*) 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 Metal / Bitumen / Emulsion Drums

Empty bitumen drums can be used as channelizing 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 work/supervision vehicles.

f) Flagmen

In large execution 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:67-2012 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) Detour on Temporary Diversion

In certain situations during the work execution 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 Execution of Work 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 widening of the carriageway will have to be taken up in course of 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 work 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 execution of work. 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) Work 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.