

Tamil Nadu Road Development Company Ltd (TNRDC)

**Realignment works at Km 91/000 including construction of 4 Nos of
Box Culvert in East Coast Road**

BID DOCUMENT

Section I	:	Instruction to Bidders
Section II	:	Forms of Bids & Forms of Securities
Section III	:	Conditions of Contract
Section IV	:	Contract Data
Section V	:	Bill of Quantities
Section VI	:	Drawings
Section VII	:	Technical Specifications

July 2011

TNRDC

**Tamilnadu Road Development Company Ltd
Sindur Panthion Plaza, 2nd Floor, 346, Pantheon Road,
Egmore, Chennai – 600 008
Phone : 044-2819 4800, 044-2819 4900
Fax : 91-44-2819 5800**

***Tamil Nadu Road Development Company Ltd
(TNRDC)***

Realignment works at Km 91/000 including construction of 4 Nos of Box
Culvert in East Coast Road

Period of Issue of Tender Document	28 th July, 2011 to 18 th August, 2011
Bid Document Price	Rs 5,000/- DD in Favour of Tamil Nadu Road Development Company Ltd, (TNRDC) , Chennai, payable at Chennai
Last Date and Time for Receipt of Bids	19 th August, 2011, 15.00 Hrs
Pre-Bid Meeting	09 th August, 2011 at 15.00 Hrs
Bid – Opening Date and Time	
Technical Bid opening	19 th August ,2011,15.30 Hrs
Financial Bid Opening	30 th August, 2011,15.30 Hrs

Tamil Nadu Road Development Company Ltd (TNRDC)

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INVITATION FOR BIDS

“Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road”

Bids are invited by M/s.Tamil Nadu Road Development Company Ltd. (TNRDC) for implementation of following work in East Coast Road, Tamil Nadu.

Description of Work	Indicative value of work Amount (Rs)	EMD / Bid Security Amount	Period of Completion
Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road	1.48 Crores	Rs. 74,000/-	4 Months

Bid document can be obtained between 10.00 hrs and 17.00 hrs on all working days from **28th July, 2011 to 18th August, 2011** at the address for communication mentioned below on payment of Non-refundable fee of **Rs.5,000/-** (Rupees Five thousands only) by way of a crossed demand draft drawn in favour of **M/s.Tamil Nadu Road Development Company Ltd.** payable on any scheduled bank in Chennai. Alternatively the Bid document can also be downloaded from www.tnrdc.com and in such cases, the bidders will be required to pay the non-refundable fee as mentioned above, at the time of submission of Bids. The proposals shall be submitted through **two-cover system (Technical and Financial Proposals in separate envelopes)**

Sealed proposals should reach at the following address not later than **15.00 hrs** on **19th August, 2011**

Address for communication

The Managing Director

M/s. Tamil Nadu Road Development Company Ltd.

Regd. Office: Sindur Panthion Plaza, 2nd Floor,

No. 346, Pantheon Road, Egmore,

Chennai – 600 008, Tamil Nadu, India.

Phone: 091-44-2819 4800 / 4900

Fax No: 091-44-2819 5800

E.Mail: tenders@tnrdc.com
www.tnrdc.com

Section I
Instructions to Bidders

SECTION 1: INSTRUCTIONS TO BIDDERS

A: GENERAL

1. Scope of Bid

1.1 Background

- (a) Tamil Nadu Road Development Company Ltd. (TNRDC) is promoted by Tamil Nadu Industrial Development Corporation Ltd (TIDCO) and TIDEL Park Ltd. TNRDC is maintaining the East Coast Road (Km 22/300 to Km 135/500) based on long term Concession Agreement with GoTN.

Bids are invited by Tamil Nadu Road Development Company Ltd, (TNRDC), for **“Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road”**

The estimated cost of the work is Rs.1.48 Crores.

- 1.1.2 The successful bidder will be expected to complete the works within 4 months period, from the date of issue of ‘Notice to Commence the Work / Acceptance letter.

- 1.1.3 The execution of the above works is proposed to be on “Item Rate Contract basis”. The approximate quantities for all items of works to be executed are furnished in the Bill of Quantities - Section- V of the bidding document.

1.2 Scope of works

- 1.2.1 The broad scope of Improvement Works to be carried out by the selected bidder includes the following components, but is not limited to:

- **“Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road”**
- Other works and services as may be indicated in the contract.

The detail of the work is as follows:

S No	Description	Amount (Rs)
1.	Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road	1.48 Crores

The cost of bid document for the work is Rs 5000/- as indicated in Clause 5.1. EMD should be attached for the work as given in clause 15

- 2 Throughout this Bidding document, the term ‘bid’ and ‘tender’ and their derivatives (bidder/ tenderer, bid/ tender, bidding/ tendering, etc.) are synonymous.

3. Eligible Bidders

To be qualified for award of the contract, the Bidder shall provide evidence to the Employer of their capability and adequacy of resources to carry out the contract effectively.

3.1 Qualification of the Bidder

To be qualified for award of the contract, bidders shall provide evidence satisfactory to the Employer of their capability and adequacy of resources to carry out the contract effectively.

- 3.2 Bids shall include the following relevant information and particulars in the prescribed forms attached in Section II: Forms of bid & Forms of securities.
- (a) Copies of original documents defining the constitution or legal status, place of registration and principal places of business; written power of attorney of the signatory of the Bid to commit the bidder;
 - (b) Total annual turnover in the civil works construction business expressed as total of payment certificates for work performed in each for the last three years;
 - (c) Performance as Contractor, on works of similar nature and complexity over the last three years and details of other work on hand and contractual commitments;
 - (d) Reports on the financial standing of the bidder including profit and loss statements, balance sheets and auditor's reports for the past three years
 - (e) Authority to seek references from the bidder's bankers;
 - (f) Information regarding any litigation or arbitration resulting from contracts executed by the bidder in the last three years or currently under execution. The information shall include the names of the parties concerned, the disputed amount, cause of litigation, and matter in dispute;
 - (g) Proposal of work methods, in sufficient detail to demonstrate the adequacy of the bidder's proposals to meet the technical specifications and the completion time referred in sub-clause 1.1.2 above.
- 3.3 Bidders shall not be under a declaration of ineligibility or blacklisted for corrupt and fraudulent practices or poor quality/ delayed implementation of any work by the Government of India (Gol), Government of Tamilnadu (GoTN), other State Governments or any other agencies and/ or Statutory Authorities.

4 Qualification Criteria and Information

The Qualification will be based on bidder meeting the following criteria with respect to general and particular experience, financial position, personnel, and equipment capabilities and other relevant information as given by the applicant in the required format.

The following criteria must be fulfilled by the Bidder and the same shall be duly certified by auditors/ clients, as applicable. The Bidder shall note that the criteria set out hereunder shall be satisfied by the Bidder.

4.1 Experience and Turn Over

The bidder shall provide documentary evidence of having been actively engaged in the construction/operation and maintenance of road works during the last Three years in the role of contractor.

4.2 Particular Construction Experience:

The bidder shall provide evidence that the firm has successfully completed or substantially completed 'a single Civil Work Contract of similar nature for the value of **Rs 60 Lakhs** within last three years (commencing from the year 2007-2008, 2008-2009, 2009 -2010)

4.3 Turn Over

The bidder shall have generated a **minimum annual average construction works turnover of Rs 1.48 Crores** during the last three years (commencing from the year 2007-2008, 2008-2009, 2009 -2010)

4.4 Personnel Capabilities

The bidder shall supply general information on the management structure of the firm and shall make provision for suitably qualified personnel as required during contract implementation.

4.5 Equipment Capabilities

The bidder is required to own or have assured access through hire or lease key equipments required for implementation of the project in good condition during the project period.

4.6 Financial Capabilities

The bidder shall demonstrate that he has access to or has available liquid assets (aggregate of working capital, cash in hand and uncommitted bank guarantee), line of credit and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirement. The bidder must demonstrate the current soundness of the bidder's financial position, and indicate its prospective long-term profitability, if deemed necessary; the Employer shall have the authority to make enquiries with the bidder's bankers.

4.7 Litigation History

The bidder as on date should not have been debarred from taking up any civil construction works and shall not be under a declaration of ineligibility for corrupt and fraudulent practices by the Government of India, Government of Tamilnadu or any other agency. The bidder should provide accurate information about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the last three years. A consistent history of awards against the bidder will result in rejection of the bid. Suppression of any information or material in this regard would be construed as a fundamental breach and TNRDC reserves its right to take appropriate action including cancellation of the bid, forfeiting of bid security etc, as may be deemed fit and proper by TNRDC at any time without requiring to give any notice to the applicant in this regard.

4.8 Deleted**4.9 Construction Programme**

The Bidder shall submit to the engineer details of proposed construction programme and work methodology including, Traffic Management Plan etc.

5 Cost of Bid document and Bidding

5.1 The cost of Bid document for the work is Rs 5000/- as indicated in the Invitation for bids. Any bid not accompanied by the acceptable bid document price shall be rejected by the Employer as non-responsive tender.

5.2 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 such costs, regardless of the conduct or outcome of the tendering process.

6 Site Visit

The Bidder shall, prior to submitting the Bid for the work, at his own responsibility and risk is encouraged to visit and examine the Site of Works and its surroundings and obtain all information that may be necessary for preparing the Bid and entering into a contract for the work. The costs of visiting the Site shall be at the Bidder's own expense.

B. BIDDING DOCUMENT**7 Content of Bidding Document**

The contents of the Bidding documents are given in the succeeding paragraphs

7.1 The Bidding Document comprises the documents listed below and should be read in conjunction with any addenda/amendment issued in accordance with Clause 9

- | | | |
|-----|-------------|--------------------------------------|
| (a) | Section I | Instructions to Bidders |
| (b) | Section II | Forms of Bid and Forms of Securities |
| (c) | Section III | Conditions of Contract |

- | | | |
|-----|-------------|--------------------------|
| (d) | Section IV | Contract Data |
| (e) | Section V | Bill of Quantities (BoQ) |
| (f) | Section VI | Drawings |
| (g) | Section VII | Technical Specifications |

- 7.2** The Bidder is expected to examine carefully all instructions, qualification information, Conditions of Contract, Contract Data, technical specifications, forms in the Bid Document. Failure to comply with the requirements of Bid Document shall be at Bidder's own risk. Pursuant to Clause 25.2, bids which are not substantially responsive to the requirements of the Bid Document shall be rejected.

8.0 Clarification of Bidding Document

A prospective bidder requiring any clarification of the bidding documents may notify the Employer in writing or by cable (hereinafter the term "cable" is deemed to include telex and facsimile) at the Employer's address indicated in the invitation for bid. The Employer will respond to any request for clarification which he receives earlier than **48 Hrs before the deadline date for submission.**

8.1 Pre Bid Meeting

- 8.1.1** The bidder or his official representative is invited to attend a Pre Bid meeting which will take place at the office of TNRDC, Egmore on **09th August, 2011** at **15.00 Hrs** and the minutes of the meeting will be conveyed to the bidders who have purchased the document by post or fax or e-mail and will be uploaded in the web site. It is the bidder's responsibility (for those who download from the website) to keep track of the website specified in the NIT for minutes of pre bid meeting and/or any addendum. The minutes of Pre-bid meeting shall form part of this Bid document.

- 8.1.2** The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised on or before the date of pre-bid meeting.

9 Amendment/Addendum of Bidding Document

- 9.1** Before the deadline for submission of bids, the Employer may modify the bidding documents by issuing addenda.
- 9.2** Any addendum thus issued shall form part of the bidding documents and shall be communicated in writing or by post or fax or e-mail to all the purchasers of the bidding documents and it will also be uploaded in the website. It is the bidder's responsibility (those who download from the website) to keep track of the website specified in the NIT for any addendum. The addendum of the bidding document will not be notified in the newspaper. Prospective bidders shall acknowledge receipt of each addendum by post or fax to the Employer.
- 9.3** To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may, at his discretion, extend the deadline for submission of bids, in accordance with Sub-Clause 19.2.

C. Preparation of Bids

10. Language of the Bid

- 10.1** The bid, and all correspondence and document related to the bid exchanged between the Bidder and the Employer shall be written in **English** language.

11. Documents Comprising the Bid

11.1 The bid shall be prepared and complete in accordance with the provisions of Bid Document and shall be submitted properly filled in, signed and initialled as appropriate. It shall comprise the following :

(a) **TECHNICAL BID (Envelope No.1) :**

Bidder, qualification and other information and supporting documents of Clause 4 as per formats given in Section-II of Bid Document, and Earnest Money Deposit (EMD) as per Clause 15.1. The Technical Bid must not include any details of Financial Bid mentioned below.

(b) **FINANCIAL BID (Envelope No.2) :**

- (ii) Letter of Financial Bid according to Section-II of Bid Document, and
- (iii) Bill of Quantities as given in Section-V of Bid Document.

11.2 The bid must be in a bound form with pages numbered serially and by giving an index of submissions. The forms and schedules given in Section-II, and Section-V shall be filled in without exception and without any variation, both in respect of form and contents.

11.3 All the addenda issued/Minutes of Pre-bid meeting should be properly incorporated. Failure to do so may result in the bid being rejected.

12.0 Bid Prices

12.1 Unless stated otherwise in the bidding documents, the contract shall be for the whole work or parts thereof as described in Sub-Clause 1, based on the quoted rates in Bill of Quantities submitted by the Bidder.

12.2 The bidder shall fill in rates and prices on unit basis (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 for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities. Corrections, if any, shall be made by crossing out, initialling, dating and rewriting.

12.3 All duties, taxes (including service tax), fees, tolls, royalties, cess and octroi, insurance, contribution to labour welfare fund, EPF 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.

12.4 The rates and prices quoted by the Bidder shall be fixed for the duration of the Contract and shall not be subject to adjustment on any account.

13.0 Currencies of Bid and Payment

The unit rates and the prices shall be quoted by the bidder entirely in Indian Rupees.

All payments shall be paid in Indian Rupees.

14.0 Bid Validity

14.1 Bids shall remain valid for a period of 90 days (Ninety days) after the deadline date for Bids as specified in Clause 19. A bid valid for a shorter period shall be rejected by the Employer as non-responsive.

14.2 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 cable. 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 the period of the extension, and in compliance 19.2 in all respects.

15 Earnest Money Deposit (EMD)

- 15.1 The proposals duly filled in the required format must reach the Office of TNRDC, **Egmore, Chennai – 600 008** on or before **15.00 hrs, on 19th August, 2011** along with **EMD/ Bid security for an amount of Rs.74000/-** in one of the following forms
- i) Form of **Demand Draft drawn in favour of Tamil Nadu Road Development Company Ltd. (TNRDC)**, payable on any scheduled bank in Chennai as indicated in the bid document.
 - ii) **Bank Guarantee** from any Nationalised Indian Bank / Scheduled Bank approved by the RBI. The format for Bid Security is enclosed.
 - iii) The Bank Guarantees issued as surety for the bid shall be valid for 28 days beyond the validity of the bid.
- 15.2 **Any bid not accompanied by the acceptable EMD shall be rejected by the Employer as non- responsive.**

16 Alternative Proposals by Bidders

Bidders shall only submit offers that comply with the requirements of the bidding documents, including the basic technical design as indicated in the specifications.

Alternate proposals will not be considered.

17 Format and Signing of Bid

- 17.1 Only relevant supporting documents shall be submitted along with the Bid, Documents furnishing additional information other than that is required as per Bid Document, if any, shall be submitted separately under separate heading, which may not be considered for evaluation.
- 17.2 The entire Bid including covering letter and supporting documents shall be duly page numbered and shall contain a detailed table of contents with page references.
- 17.3 The person or persons signing the Bids shall initial all pages of the Bids,
- 17.4 The Bidder shall prepare and submit one original of the Bid Document comprising the Bid as described in Clause 11, bound and clearly marked "**ORIGINAL**."
- 17.5 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. All pages of the bid where entries or amendments have been made shall be initialled by the person or persons signing the bid.
- 17.6 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 initialled by the person or persons signing the bid.
- 17.7 The Bidder shall furnish information as described in the Form of Bid and Qualification 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.
- 17.8 All witnesses and sureties shall be persons of status and probity and their full names, occupation and addresses shall be printed below their dated signatures.

D. SUBMISSION OF BIDS

18 Sealing and Marking of Bids

- 18.1 The Bidder shall submit qualification information in Technical Bid and financial information in Financial Bid in two separate envelopes, sealed securely. These envelopes shall be clearly marked on top as appropriate. The Technical Bid and Financial Bids in two separate envelopes so sealed and marked shall then be put into an outer envelope and duly sealed.
- 18.2 The **inner and outer** envelopes shall
- (a) Be addressed to the Employer at the following address:
Managing Director,
Tamil Nadu Road Development Company Ltd (TNRDC),
346, Sindur Panthion Plaza, 2nd Floor,
Pantheon Road,
Egmore, Chennai- 600 008, and
- (b) bear the following identification:
Bid for "Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road"
- 18.3 In addition to the identification mentioned above the inner and outer 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 20.
- 18.4 If the outer envelope is not sealed and marked as above, the Employer will assume no responsibility for misplacement or premature opening of the bid and the bid will be treated as rejected on the grounds of not substantially responsive.

19.0 Deadline for Submission of the Bids

- 19.1 Bids must be received by the Employer at the address specified above not later than **15.00 Hours on 19th August, 2011.** In the event of the specified date for the submission of bids declared a holiday for the Employer, the Bids will be received up to the appointed time on the next working day.
- 19.2 The Employer may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 9, 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.

20.0 Late Submission of Bids

Any Bid received by the Employer after the deadline prescribed in Clause 19 will be returned unopened to the bidder.

21.0 Modification and Withdrawal of Bids

- 21.1 Bidders may modify or withdraw their bids by giving notice in writing before the deadline prescribed in Clause 19.
- 21.2 Each Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and delivered in accordance with Clause 18 & 19, with the outer and inner envelopes additionally marked "**MODIFICATION**" or "**WITHDRAWAL**", as appropriate.
- 21.3 No bid may be modified after the deadline for submission of Bids.

- 21.4 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 14.1 above or as extended pursuant to Clause 14.2 may result in the forfeiture of the Bid security pursuant to Clause 15.
- 21.5 Bidders may only offer discounts to, 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

22.0 Bid Opening

- 22.1 The Employer will open all the Bids received (except those received late), including modifications made pursuant to Clause 19, in the presence of the Bidders or their representatives who choose to attend **at 15:30 Hrs on 19th August, 2011** at the office of the TNRDC, Egmore, Chennai.
- 22.2 In the event of the specified date of Bid opening being declared a holiday, the Bids will be opened at the appointed time and location on the next working day by the employer.
- 22.3 Envelopes marked "**WITHDRAWAL**" shall be opened and read out first. Subsequently all envelopes marked "Modification" shall be opened and the submissions therein read out in appropriate detail at the time of opening of Financial Bid.
- 22.4 After opening of the outer envelope containing the Bid, its contents shall be examined for compliance in pursuant to Clause 18.1. Bids found not complying are liable to be rejected without further examination. The contents of envelope titled "**Technical Bid**" will be opened first and its contents shall be scrutinised as per requirements of Bid document. Only for the Bidders, whose contents of Technical Bid have been found in order and evaluated as substantially responsive, the envelope titled "**FINANCIAL BID**" shall be opened **at 15:30 hrs on 30th August, 2011 at the same address as specified in Clause 18.2** in the presence of Bidders or their authorized representatives who choose to be present in the bidding process.
- 22.5 The Bidder's names, the Bid Prices, the total amount of each bid, any discounts, Bid modifications and withdrawals and such other details as the Employer may consider appropriate, will be announced and recorded by the Employer at the time of opening.
- 22.6 No bid shall be rejected at Bid opening except for late bids pursuant to Clause 20 and conditional bids. Bids [and modifications pursuant to Clause 21] 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 unopened to Bidders.

23.0 Process to be Confidential

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. Any effort by a Bidder to influence the Employer's processing of Bids or award decisions may result in the rejection of his Bid.

24.0 Clarification of Bids

- 24.1 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 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. Provided however, the employer shall seek the rectification of price with the bidder who quoted lowest in total;

- 24.2 Subject to sub-clause 24.1, no Bidder shall contact the Employer/ its representatives on any matter relating to its bid from the time of the bid opening to the time the contract is awarded.
- 24.3 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 Bidders' bid.

25.0 Preliminary Examination of Bids and Determination of Responsiveness

- 25.1 Prior to the detailed evaluation of Bids, the Employer will determine whether each Bid (a) has been properly signed; (b) is accompanied by the required securities and; (c) is substantially responsive to the requirements of the Bidding documents; and (d) provides any clarification and/ or substantiation that the Employer may require pursuant to Clause 24.
- 25.2 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; (c) not confirming to the requirement at Clause 18 or (d) whose rectification would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.
- 25.3 If a Bid is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

26.0 Correction of Errors

- 26.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer, where there is a discrepancy between the unit rates in figures and in words, the lesser of the two will prevail.
- 26.2 The amount stated in the Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and, with the concurrence of the Bidder, 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 17.6.

27.0 Evaluation and Comparison of Bids

- 27.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause 25.
- 27.2 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 26;
 - (b) Excluding Provisional Sums and the provision, if any, for contingencies in the Summary Bill of Quantities;
- 27.3 Towards evaluation, the employer will take into account the adjusted Bid Price for the works arrive at the lowest evaluated rate of bid.
- 27.4 The Employer reserves the right to accept or reject any variation, deviation, or alternative offer and other factors which are in excess of the requirements of the Bidding document or otherwise result in the accrual of unsolicited benefits to the Employer shall not be taken into account in Bid evaluation.
- 27.5 If the Bid of the successful Bidder is seriously unbalanced in relation to or substantially below the Employer's estimate of the cost of work to be performed under the contract, the Employer may require the Bidder to produce detailed price analysis for any or all items of the Bill of

Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analysis, the Employer may require that the amount of the performance security set forth in Clause 31 be increased at the expense of the successful Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract.

F. AWARD OF CONTRACT

28.0 Award Criteria

Subject to Clause 27, the Employer will award the Contract to the Bidder whose Bid has been determined to be substantially responsive to the Bidding documents and whose bids are evaluated to be the lowest, provided that such Bidder has been determined to be eligible and qualifying in accordance with the provisions of Clause 3 and 4. The lowest (L1) bidder will be called for negotiation on the quoted rates. If the lowest bidder is not responding for further negotiations, the Employer reserves the right to negotiate with any of the eligible bidders who is willing to offer a negotiated and reasonable rate.

Awarding the work to bidders or summarily reject all the proposals shall be the sole discretion of TNRDC, based on the capability of the Bidders.

Employer reserves the right to appoint other contractor/contractors for "**Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road**" or part of this work/contract and any other works that the Employer may decide.

29.0 Employer's Right to Accept any Bid and to Reject any or all Bids

- 29.1 Notwithstanding Clause 28, the Employer reserves the right to accept or reject any Bid, and to annul 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.

30. Notification of Award

- 30.1 The Bidder whose Bid has been accepted will be notified of the award by the Employer prior to expiration of the Bid validity period by cable, telex or facsimile confirmed by registered letter. This letter (hereinafter and in the *Conditions of Contract* called the "Letter of Intent") 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").

31.0 Performance Security

- 31.1 Within 7 days of receipt of the Letter of Intent, the successful Bidder shall deliver to the Employer a Performance Security in the form of a bank guarantee from Nationalised Bank/ Scheduled Bank acceptable to the Employer in the form as given in Section II for an amount equivalent to **5% of the initial contract price** in accordance with Clause 27.5 and Clause 48 of Conditions of Contract. The Performance Security for works shall be valid for a period of 16 months from the date of commencement of the works or 12 months beyond the completion date whichever is later. The bidder should maintain the facility in acceptable condition as stipulated in the Bid Document.
- 31.2 Failure of the successful bidder to comply with the requirements of Clause 31.1 shall constitute a breach of contract, cause for annulment of the award, forfeiture of the bid security, and any such other remedy the Employer may take under the contract.
- 31.3 **Retention money**
In each, Interim Payment Certificate (IPC) @ **5 %** of value of work executed during each bill will be withheld and the withheld amount will be refunded to the Contractor along with the Final Bill /Taking over certificate. The maximum amount of Retention money to be with held is restricted up to **5%** of the contract value.

32.0 Signing of Agreement

- 32.1 At the same time that he notifies to the successful Bidder that his Bid has been accepted, the Employer will direct him to attend the Employer's office on a date determined by the Employer for signing the Form of Agreement provided in the Bidding Document incorporating all the agreements between the parties. The signing of the Form of Agreement shall take place only after the furnishing of performance security by the selected Bidder as per Clause 31.1
- 32.2 The Agreement will incorporate all agreements / correspondences between the Employer and the successful Bidder. It will be kept ready for signature of the successful bidder in the office of employer within 21 days following the notification of award along with the Letter of Intent and after the submission of performance security; the successful Bidder will sign the Agreement and deliver it to the Employer.
- 32.3 Upon the furnishing by the successful Bidder of the Performance Security, the Employer will promptly notify the other Bidders that their Bids have been unsuccessful and refund the Bid Security.

33. Corrupt or Fraudulent Practices

- 33.1 The Employer requires that all the Bidders should observe the highest standard of ethics during the procurement and execution of this Contract. In pursuance of this policy, the Employer:
- (a) Defines, for the purposes of this provision, the terms set forth as follows :
- i. "corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of Employer/ its representatives in the procurement process or in contract execution; and
- 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 deprive the Employer of the benefits of free and open completion;
- (b) will reject a proposal for award if he determines that the Bidder recommended for award has, engaged in corrupt or fraudulent, practices in competing for the Contract in question;
- (c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded any contract in **TNRDC**, if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, this Contract.

34. TERMINATION

In case the Contractor fails to carryout the works, as per the construction programme and as per the conditions stipulated in the Bid Document , then the Employer, at its sole discretion is entitled to terminate this contract at the '**Risk and Cost**' of the Contractor and to employ such other Contractor/s to carryout the balance works. The additional cost incurred by the employer in completing the works, which remain unfinished at the time of termination of the contract will be recovered from the Contractor. Any unrecovered '**Risk and Cost**' amount will be a debt payable to the Employer and the Employer will take suitable actions for such unrecovered '**Risk and Cost**' amount at the cost of the Contractor. Any bill/s for the works executed remains unsettled and/or the value of materials, machineries etc., taken over or possessed by the Employer at the time of termination or on termination will be adjusted towards the '**Risk and Cost**' recoverable from the contractor.

Section II
Forms of Bid &
Forms of Securities

SECTION II

FORMS OF BID & FORMS OF SECURITIES

1. LETTER OF APPLICATION

(Letterhead paper of the Bidder)
[Including full postal address, telephone, fax, cable and telex addresses]

[Date]

To:

Managing Director

Tamil Nadu Road Development Company (TNRDC)
Sindur Panthion Plaza, 2nd Floor, 346, Pantheon Road,
Egmore, Chennai- 600 008
Phone: 044-2819 4800, 044-2819 4900 Fax 91-44-2819 5800

Sir,

1. Being duly authorised to represent and act on behalf of ----- (hereinafter "The Bidder"), and having reviewed and fully understood all the bid information provided, the undersigned hereby apply to be qualified by your agency as a bidder for the contract of the **"Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road"**
2. TNRDC and its associates/ representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted in connection with this application, and to seek clarification from our bankers and clients regarding any financial and technical aspects. This Letter of Application will also serve as authorization to any individual or authorised representative of any institution, to provide such information deemed necessary to verify statements and information provided in this application or with regard to the resources, experience, and competence of the Bidder.
3. This application is made in the full understanding that:
 - (a) TNRDC reserves the right, to reject or accept any application, cancel the bidding process and reject all applications; and
 - (b) TNRDC shall not be liable for any such actions and shall be under no obligation to inform the Bidder of the grounds for them.
4. The undersigned declared that the statements made and the information provided in the duly completed application are complete, true and correct in every detail.

Authorised Signature

Name and Title of Signatory

2. BIDDER, QUALIFICATION AND OTHER INFORMATION

Bidders are requested to complete the information in this form through indicated formats or suitable attachments:

A. Bidder Particulars

No.	Particulars
(a)	Name of Bidding Firm :
(b)	Status (Sole/ firm in partnership/ Pvt. or Public Ltd Company)
(c)	Place of incorporation/ registration : Year of incorporation/ registration :
(d)	Registered Head Office address/ Telephone/ Fax/ E-mail :
(e)	Contact Office address/ Telephone/ Fax / E-mail :
(f)	Contact Person and Title :
(g)	Names of Promoters :
(h)	Names of Principal Shareholders :
(i)	Shareholding Pattern :

B. Details on Structure and Operation, Key Management Personnel of the Bidder's organization

(To be enclosed as an attachment)

C. Proof of Constitution of Legal Status

(To be enclosed as an attachment)

D. Power of Attorney authorizing the signatory of the Bid document to commit the Bidder

(Original or Notary Attested Photocopy to be enclosed as an attachment)

E. Financial Statement by the Bidder (Annual Reports, Turnover, Liquid Assets, Banker's Details)**(i) Audited annual Reports for three years starting from Financial Year 2007-08 to Financial Year 2009-10**

[To be enclosed as an attachment)

Ref. Page Nos. _____

(ii) Annual Turnover Data (duly supported by audited Annual Reports/ Provisional Certificate for respective periods and certification by Statutory Auditors)**Turnover from Construction related works in last three years ending March 31, 2010**

Description		2007-2008	2008-2009	2009-2010
(a) Turnover from civil construction related works	Vide Page No.			
	Amount in INR			
(b) Factor for updating to 31, Mar 2010 level @6% pa		1.1236	1.06000	1.00
(c) Turnover updated to Mar 31, 2010 level (a) x (b)				

(d) Sum of Civil construction related works turnover updated
To 31 Mar 2010, for three years INR _____

(e) **Average civil construction related works** turnover for three
Years (updated to 31 Mar 2010 price level): INR _____
(Average Annual Turnover)

(f) **Is Average Annual Turnover (e) > INR 1.48 Crores** _____

(g) Supporting documents:

Description	Ref. Page No.

(iii) **Current Liquid Assets (as on 31 March 2010 duly supported by Certificate for Financial Year 2009-2010 by Statutory Auditors)**

Current Liquid Assets as on Mar 31, 2010	
Particulars	Amount in INR
Working Capital	
Cash in Hand	
Uncommitted line of credit	
Other Financial Means	

Supporting Documents:

Description	Ref. Page No.

(iv) **Details of Bidder's Bankers**

Name of the Banker	Contact Person, Contact Address, Phone number and fax number
(Banker 1)	
(Banker 2)	
.....	

F. Qualifying Works

For all works indicated below, the Bidder shall necessarily submit the relevant client's/ Engineer's Certificate.

Description	2007-2008	2008-2009	2009-2010
(a) Name of Qualifying work			
(b) Cost of Qualifying work (in INR crore)			
(c) Period of implementation	From :		To :
(d) Value of work done during period under consideration (in INR Core)			
(e) Updation factor @ 6%	1.1236	1.0600	1.0000
(f) Updated value of work done during period under consideration			
Is single work > INR 60 Lakhs during the above period			

Supporting Documents:

Description	Ref. Page No.

G. Litigation / Arbitration History [as per Clause 4.7]

The Bidder shall provide the following information on history of litigation or arbitration resulting from contracts executed in the last three years or currently under execution.

Name of the Bidder: _____

1	(a)	Has the Applicant or its constituent partners consistent history of litigation/ arbitration awarded against / favour of him.Yes/ No
	(b)	If yes, give details for each such case in the format of Table 1 below	
2	(a)	Has the applicant or any of its constituent partners been debarred/ expelled by any agency in India, during the last 3 years as on date of application, except on account of reasons other than non-performance, such as rescinding of joint venture, partner of joint venture pulling out, court directions leading to breaking up of a joint venture before start of work etc.Yes/ No
	(b)	If yes, give details	
3	(a)	Has the Applicant or any of its constituent partners abandoned any contract work in India during the last 3 yearsYes/ No
	(b)	If yes, give detailsYes/ No
4	(a)	Has the Applicant or any of its constituent partners been declared bankrupt during the last 3 years.Yes/ No

	(b)	If yes, give details, including present status	
5		Has the Applicant or any of its constituent partners been debarred by TNRDC or any other agency in India for as on date of application.Yes/ No

Format for Case Summary (to be submitted by the Bidder each case pending/ settled):

<i>Item Head</i>	<i>Particulars to be Furnished</i>
Name of Client	
Year	
Cause of Litigation/ Arbitration/ Matter in Dispute	
Disputed Amount (Current Value in Indian Rupees)	
Resolved or pending resolution	
Award for or against	
Actual amount awarded (Current value in Indian Rupees)	
Other Claims Made, Settled/ Rejected	

H. Details of proposed Construction Program and Work Methodology (including Traffic Management Plan and Resource Management Plan) [as per Clause 4.9]

(To be enclosed as an attachment)

Ref Page Nos. _____

Declaration Statement

(Letterhead paper of the Bidder)

[Date]

To

**Managing Director
Tamil Nadu Road Development Company (TNRDC)
Sindur Panthion Plaza,
2nd Floor, 346, Pantheon Road,
Egmore, Chennai- 600 008
Phone: 044 -2819 4800, 044 -2819 4900 Fax 91- 44 -2819 5800**

Dear Sir:

1. I, the undersigned, do hereby certify that all the statements made in the application and attachments thereto are true and correct.
2. The undersigned also hereby certifies that neither our firms M/s..... nor any of its constituent partners have abandoned any work awarded to us by any Agency in India nor any contract awarded to us for such works has been rescinded, during last three years prior to the date of this application.
3. The undersigned also furnish undertaking that we are not declared by any court of law as proclaimed offenders also that we are not convicted under any law for the offences punishable under Indian Penal Code, Negotiable Instrument Act of any Labour/ employee beneficial legislations.
4. The undersigned hereby authorize(s) and request(s) any bank, person, firm or corporation to furnish pertinent information deemed necessary and requested by to verify this statement or regarding my (our) competence and general reputation.
5. The undersigned understands and agrees that further qualifying information may be requested, and agrees to furnish any such information at the request of the TNRDC.

Signed by an Authorised Officer of the Firm

Title of Officer

Name of Firm

Date

4. SPECIMEN FORMAT FROM BIDDER TO BANKERS AUTHORISING THEM TO PROVIDE INFORMATION TO TNRDC/ ITS REPRESENTATIVES

To
Name of Bank/ Address/ city

Dear Sir:

We have recently submitted a Bid Proposals to Tamil Nadu Road Development Company Ltd., (TNRDC) for implementing its project for _____ . We hereby authorise you to provide all information/ data readily about us and our credit status, as may be desired by TNRDC and you need not seek any clearance/ opinion from us for providing the information/ data to TNRDC.

Sincerely,

Authorised Signatory

LETTER OF FINANCIAL BID

(Letterhead of the Bidder)

[Date]

Managing Director

TNRDC, Sindur Panthion Plaza,
2nd Floor, 346, Pantheon Road,
Egmore, Chennai- 600 008
Phone: 044-2819 4800, 044-2819 4900 Fax 91 – 44 - 2819 5800

Dear Sir:

Sub: **“Realignment works at Km 91/000 including construction of 4 Nos of Box
Culvert in East Coast Road”**

Having examined the Bid Document including Notice Inviting Bids, Instructions to Bidders, General Conditions of Contract, Special Conditions of Contract, Technical Specifications, Bill of Quantities, Drawings, Schedules, Annexure and Addenda for the execution of the above named works, we, the undersigned, offer to execute and complete such works and remedy any defects therein in conformity with the said Bid Document at the prices indicated in the enclosed BoQ

The Payment for:

Construction, Improvement for the sum of INR _____ **(Indian Rupees in words)** _____) **inclusive of all taxes** and such other sum as may be ascertained in accordance with the said Bid Document

We undertake, if our Bid is accepted, to commence the works within seven (7) days of receipt of the Engineer's order to commence, and to complete and deliver the sections and whole of the works comprised in the Contract within the period stated in the Appendix to Bid/ Contract data hereto.

We also undertake to furnish Performance Security (ie) in the form of a Bank Guarantee in accordance with the Conditions of Contract.

We agree to abide by this Bid for the period of Ninety (90 days) from the date of Bid opening, as prescribed in Clause 14.1 of the Instructions to Bidders (Section-I), and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

We confirm our agreement to treat the Bid Document, Drawings and other records connected with the works as secret and confidential document and shall not communicate information contained therein to any other person other than the person authorized by Employer or use such information in any manner prejudicial to the safety and integrity of the works.

We undertake that, in completing for (and, if the award is made to us, in executing) the above Contract, we will observe the laws against fraud and corruption in force in India namely “Prevention of Corruption Act 1988”.

We confirm that our firm has valid VAT/PAN registrations along with EPF, ESI codes as stipulated under Appendix 2 and 3 of GCC.

We hereby confirm that this Bid complies with the Eligibility, Bid validity and Bid security required as stated in the Bidding documents.

Yours faithfully,

Authorised Signature:

Name and Title of Signatory:

Name of Bidder with official seal:

Address:

FORMAT FOR AGREEMENT**1. Agreement Form****Draft Contract Agreement**

This agreement, made the ___ day of _____, 2011 between **Tamil Nadu Road Development Company Ltd (TNRDC), Sindur Panthion Plaza, 2nd Floor, 346, Pantheon Road, Egmore, Chennai, TamilNadu, India**, (hereinafter called “the Employer”) which expression shall unless the context otherwise requires, include its successors and assigns of the one part and-----
----- (Hereinafter called “the Contractor”) of the other part.

Whereas the Employer is desirous that certain works should be executed by the Contractor, viz. **“Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road”** (hereinafter called “the Works”) and the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein, at a contract price of Rs. -----/- (Rupees -----
-----only) **inclusive of all taxes**

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - i) Letter of Intent, Confirmation Letter and Notice- to Proceed with the Works
 - ii) The Priced Bill of Quantities.
 - iii) Contract Data
 - iv) Conditions of contract (including Special Conditions of Contract);
 - v) Instructions to Bidders
 - vi) Specifications;
 - vii) Any other document listed in the Contract Data/Bid Document as forming part of the contract (minutes of pre bid meeting, addendum and clarifications).
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy and defects therein in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

Signed, sealed, and delivered by the said Employer and the Contractor in the presence of:

WITNESSES:

On behalf of Tamil Nadu Road Development Company Ltd. Egmore, Chennai	On behalf of the Contractor
1.	1.
2.	2.

Binding Signature of the Employer:-

Binding Signature of the Contractor:-

2. Letter of Intent

(Letterhead paper of the Employer)

[Date]

To: [name and address of the contractor]

Dear Sirs,

This is to notify that your Bid dated _____ for INR _____ [as corrected and modified in accordance with the Instructions to Bidders] **inclusive of all taxes for “Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road”** is hereby accepted by our Agency.

We note that as per bid, you do not intend to sub-contract any component of work.

You are hereby requested to send a Confirmation Letter acknowledging receipt of the Letter of Intent and accepting the offer. You are requested also to furnish Performance Security, *plus additional security for unbalance bids in terms of ITB Clause 27.5, in the form detailed in Clause 31 of ITB for an amount of INR _____ within 7 days of the receipt of this Letter of Intent, valid up to 16 months from the date of commencement of works or 12 months beyond the completion date for works whichever is later and sign the Contract Agreement, failing which action as stated in Para 31.2 of ITB will be taken.

You are requested to submit the detailed construction Program including Environmental Management Plan and Traffic Management Plan as per Clause 25 of Conditions of Contract within 7 days of receipt of this letter.

Yours faithfully,

Authorised Signature:
Name and Title of Signatory:
Name of Agency:

3. Confirmation Letter

(Letterhead paper of the Contractor)

To:
[Name and address of the Employer]

Dear Sir,

Subject **“Realignment works at Km 91/000 including construction of 4 Nos of
Box Culvert in East Coast Road”**

We acknowledge receipt of your letter of Intent, ref TNRDC/ _____ dated _____ and unconditionally accept the offer to take up above captioned works at the price indicated in the letter of intent.

We also confirm our acceptance to all the corrections and modifications made by the Employer in respect of our bid.

We undertake to provide you unconditional bank guarantee towards performance security and additional security for unbalanced bid as per the agreed format within the prescribed data as per the Instructions to Bidder and Conditions of Contract.

Yours faithfully,

Authorized Signature:
Name and Title of Signatory:
Name of Agency:

4. **Issue of Notice to Proceed with the Work**

(Letterhead paper of the Employer)

To: [name and address of the contractor)

Dear Sir,

Subject: **“Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road”**

Pursuant to your furnishing the requisite security as stipulated in ITB clause 31.1 and signing of the contract agreement for the **“Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road”**for construction, improvement and maintenance in that order, you are hereby instructed to proceed with the execution of the said works in accordance with the contract documents with effect from ---
----- (date).

Yours faithfully,

Authorised Signature:

Name and Title of Signatory:

Name of Agency:

FORM OF BANK GUARANTEE FOR EMD / BID SECURITY

WHEREAS _____ (Name of Tenderer) (hereinafter called the Tenderer) wishes to submit his tender for “**Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road** “ of herein after called “the Tender” KNOW ALL MEN by these present that we _____ (Name of Bank) of _____ having our registered office at (_____) (hereinafter called the ‘Bank’) are bound unto the Tamil Nadu Road Development Company Ltd (TNRDC) (hereinafter called “the Employer”) in the sum of the Rs _____ (Rupees _____) for which payment can truly be made to the said Employer. The Bank bind themselves, their successors and assigns by these presents with the seal of the Bank this day _____ of 2011 and undertake to pay the amount of Rs _____ (Rupees. _____) to the employer upon receipt of a written demand and without demur and without the employer having to substantiate his demand.

The conditions of this obligation are:

If the tenderer withdraws his tender during the period of Tender validity specified in the Form of Tender. Or

If the Tenderer having been notified of the acceptance of his Tender by the Employer during the period of tender validity. Or

If the Tenderer fails or refuses to execute the Form of Agreement in accordance with the instructions to bidders, if required; or

Fails or refuses to furnish the Performance Security, in accordance with the Instruction to Bidders.

We undertake to pay the employer upto the above amount upon receipt of his first written demand and without demur and without the employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to the occurrence of any one of the above conditions, specifying the occurred condition or conditions.

This guarantee will remain in force upto ----- (Date) and including the date 28 days beyond the validity of the bid as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, at any time prior to the closing date for submission of the Tenders Notice of which extension to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date of expiry of this guarantee.

Notwithstanding anything contained herein.

- i) Our liability under this Guarantee shall not exceed the guaranteed amount **Rs. -----/- (Rupees -----only)**

This Guarantee shall be valid upto -----2011 (Expiry date) and

- ii) We shall be liable to pay the guaranteed amount under this guarantee only and if we receive a written claim or demand duly signed by a duly Authorised official of the Employer before the -----2011 (Expiry date) as mentioned above.

SIGNATURE OF AUTHORISED REPRESENTATIVE OF THE BANK _____

NAME AND DESIGNATION _____

SEAL OF THE BANK _____

SIGNATURE OF THE WITNESS _____

NAME OF THE WITNESS _____

ADDRESS OF THE WITNESS _____

BANK GUARANTEE FOR PERFORMANCE SECURITY

BG No dated2011

To

Tamil Nadu Road Development Company Ltd.,
Sindur Panthion Plaza,
2nd Floor, Pantheon Road
Egmore, Chennai – 600 008.

Bank Guarantee No.datedfor Rs./- (Rupees
.....**only**)

WHEREAS vide the Work order no..... dated 2011 for “**Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road**” (hereinafter referred as to as “the Contract”) **M/s.**, (hereinafter referred to as “**Contractor**” which expression shall unless repugnant to or inconsistent with the context mean and include its successors and assigns) has been awarded by **Tamil Nadu Road Development Company Ltd**, a company incorporated under the Companies Act, 1956 (hereinafter referred to as the “**Employer**” which expression shall unless repugnant to or inconsistent with the context mean include its successors and assigns), the contract for “**Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road**”

AND WHEREAS it has been stipulated by you in the said contract that the Contractor shall furnish you a Performance Guarantee, within 7 days of receipt of Letter of Intent by a specified Scheduled / Nationalised Bank, for the sum specified therein as security for compliance with the contractor’s obligations in accordance with the Contract and against any breach or non-performance of the terms and conditions contained in the contract.

AND WHEREAS we**BANK**, having its Head Office atand amongst others, a branch office situated at....., have agreed to furnish a Performance Guarantee for a sum **Rs. -----/- (Rupees ----- only)** (hereinafter referred as the guaranteed amount) as security for compliance of the contractor’s obligations under the contract.

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

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

Our liability under this Guarantee shall not be affected by any change in the constitution of the Contractor or of the Guarantor.

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

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

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

Notwithstanding anything contained herein.

- iii) Our liability under this Guarantee shall not exceed the guaranteed amount **Rs. -----/- (Rupees -----only)**

This Guarantee shall be valid upto -----2013 (Expiry date) and

- iv) We shall be liable to pay the guaranteed amount under this guarantee only and if we receive a written claim or demand duly signed by a duly Authorised official of the Employer before the -----2013 (Expiry date) as mentioned above.

IN WITNESS WHEREOF we have executed this guarantee on this2011.

Signature of Authorised Representative of the Bank

Name and Designation

Seal of the Bank

Signature of Witness

Name of Witness

Section III
Conditions of Contract

Section III: CONDITIONS OF CONTRACT

A. GENERAL

1. Definitions

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

Activity Schedules means the priced and completed Activity Schedules forming part of the Bid.

Bill of Quantities (BOQ) means the completed Bill of Quantities attached in Appendix and forming part of this Contract.

Compensation Events are those defined in Clause 41 hereunder.

Confirmation Letter is the letter of the Contractor dated accepting the letter of intent issued by the Employer.

Construction Work means “**Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road**”

The **Contract Completion Date** is the date of completion of Contractor's Obligations under this Contract as certified by the Engineer in accordance with Clause 50.2.

The **Contract** is the contract between the Employer and the Contractor to execute, complete and maintain the Works. It consists of the documents listed in Clause 2.3 below.

The **Contract Data** defines the documents and other information which comprise the Contract.

The **Contractor** is a person or firm or corporate body that's Bid to carry out the Works has been accepted by the Employer.

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

The **contract Price** is the price stated in the letter of Intent and thereafter as adjusted in accordance with the provisions of the Contract.

Days are calendar days: **months** are calendar months.

A **Defect** is any part of the works not completed in accordance with the Contract.

The **Defects Liability Period** is 12 months period named in the Contract Data and calculated from the date of issue of completion certificate for the construction of improvement works (or) improvement works completion date, which ever is later.

The **Employer** is the party who will employ the Contractor to carry out the Works and in this case the employer is TNRDC, Egmore, and Chennai – 600008.

The **Engineer** is the person named in the Contract Data (or any other competent Person appointed and notified to the Contractor by the Employer to act in replacement of the Engineer) who is responsible for supervising the execution of the works and administering the Contract and in this case it is TNRDC, Egmore, Chennai – 600008.

“Engineer Representative” means a person appointed from time to time by the Engineer under Sub-clause 5.1.

Equipment is the Contractor’s plant / machineries and vehicles brought temporarily to the site to construct the works.

Improvement Works means the “**Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road**”

The **Initial Contract price** is the Works Contract price in the Employer’s Letter of Intent.

The **Intended Completion Date** is the date on which it is intended that the Contractor shall complete the Construction Works or Improvement Works or both, as the case may be. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised only by the Engineer by issuing an extension of time, in writing.

Letter of Intent is the letter dated _____ issued by the Employer to the Contractor containing the Initial Contract Price and other details as enclosed in Appendix of this Contract.

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.

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

Project Facility means the stretch of the Road as mentioned in Contract Data, all appurtenances thereto, including road furniture, Sign boards and other road components and all access roads upto 50 m from the edge of the road

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

Site Investigation Reports are those which were included in the Bidding documents and are factual interpretative reports about surface and Sub- surface conditions at the site.

Specification means the Specification of the Works included in the Contract and any Modification or addition made approved by the Engineer in writing.

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

A **Variation** is an instruction given by the Engineer/ Employer in writing which varies the Works.

The **Works** are what the Contract requires the Contractor to carry out as part of this Contract and shall refer to Construction Works or Improvement Works or Maintenance Works or Maintenance Works or any combination thereof.

The **Works Completion Date** is the actual date of completion of the Works as certified by the Engineer in accordance with Clause 50.1

2. Interpretation

- 2.1 In interpreting these Conditions of Contract, singular also means plural, male also means female or nature, and the other way around. Heading have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Engineer will provided instructions clarifying queries about the Conditions of Contract.

- 2.2 If sectional completion is specified in the Contract data, reference in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the works (other than references to the Completion Date and Intended Completion date for the whole of the Works).
- 2.3 The documents forming the Contract shall be interpreted in the following order of priority:
- a. Agreement:
 - b. Letter of Intent, Confirmation Letter and Notice- to Proceed with the Works
 - c. Bill of Quantities
 - d. Contract Data
 - e. Conditions of Contract including Special Conditions of Contract:
 - f. Instructions to Bidder
 - g. Specifications
 - h. Any other document listed in the Contract Data/ Bid Document as forming part of the Contract (minutes of pre bid meeting, addendum and clarifications)

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 Decisions

- 4.1 Except where otherwise specifically stated, the Engineer will decide contractual matters between the Employer and the Contractors in his role representing the Employer.

5. Delegation

- 5.1 The Engineer may delegate any of his duties and responsibilities to other person/organization after notifying the Contractor.

6. Communications

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

7. Sub- contracting

- 7.1 The contractor shall not, with out the prior consent of the Employer assign the contract or any part thereof or any benefit or interest therein or there under.

The contractor shall not sub contract the works. Except where otherwise provided by the contract, the contractor shall not sub contract any part of the works, with out the prior consent of the Employer. Any such consent shall not relieve the contractor from any liability or obligation under the contract and he shall be responsible for the acts, defaults and neglects of any Subcontractor, his agents, servants or workmen as fully as if they were the acts, defaults or neglects of the contractor, his agents, servants or workmen

Provided that the contractor shall not be required to obtain such consent from the employer for:

- a. The provision of labour : and
- b. The purchase of materials which are in accordance with the Specifications and quality standards specified in the Contract.

8. Other Contractors

- 8.1 The Contractor shall cooperate and share with the other contractors, public authorities, utilities, and the Employer and his representative between the dates given in the Schedule of the other contractors. The Contractor shall also provide facilities and services to them as may be necessary for smooth coordination. The Employer may modify the schedule of other contractors and shall notify the Contractor of any such modification.
- 8.2 Pursuant to the above, the Contractor hereby agrees and acknowledges that the Employer is well within their right to appoint other contractor for **“Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road** “a part of this work/contract and any other works that the Employer may decide. The Contractor acknowledges that the Employer has no liability what so ever towards the Contractor in this regard and that the Contractor will, Unconditionally and without any financial charge, extend all necessary assistance and cooperation to the Employer and other Contractor(s), so as to ensure that the Works are completed in terms of the Milestones stipulated in the Contract Data.
- 8.3 Any default in the above regard shall be treated as a fundamental breach of the contract in terms of Clause 54.2

9. Personnel

- 9.1 The Contractor shall employ required personnel to carry out the functions stated in the approved program in terms of Clause 25.
- 9.2 If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or his work force stating reasons, the Contractor shall ensure that the person leaves the site within seven days and has no further connection with the work in the Contract.
- 9.3 **Labour Statutory requirement**

The Contractor shall confirm to and comply with the regulations and by-laws of the State or Central Government and other statutory Body the provisions contained in the various Acts specified in Appendix 2 of this section

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 expected 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, and act of foreign enemies, rebellion, and revolution. Insurrection or military or usurped power, civil war, (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 or damage to physical property or personal injury and death which arise during and in consequence of the performance of the Contract other than the expected Employer's risks 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 the start Date to the end of the Defects liability period, in the Amounts and deductibles stated in the Contract Data for the following events:
- a. loss of or damage to Works, Plant and Materials:
 - b. loss of or damage to Equipment;

- c. loss of or damage of property (except the Works, Plant, Materials and Equipment) in connection with the Contract;
- d. personal injury or death of employer/employee personal and third party persons;

However, it is for the contractor to decide whether the minimum amount specified in the Contract data is sufficient, and if he considers it necessary, to insure for a greater amount. The policy should cover an unlimited number of claims in any one year.

- 13.2 Policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the start Date. All such insurance shall provide for compensation to be payable in the type and proportions of currencies required to rectify the loss or damage incurred. The contractor shall be responsible for effecting change to the policies and certificates as may be directed by the Engineer, within time period indicated by the Engineer.
- 13.3 If the Contractor does not provide the policies and certificates as required, the Employer may effect the insurance which the Contractor should have provided and recover the premiums the Employer has paid, from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due and if warranted, recovered by invoking Performance Security.
- 13.4 Alterations to the terms of insurance shall not be made without the approval of the Engineer.
- 13.5 Both parties shall comply with any conditions of the insurance policies.
- 13.6 The Contractor shall be entitled to place all insurance relating to the Contract with insurers from India, which have been determined to be acceptable to the Employer.

14. Queries about the Contract Data

- 14.1 The Engineer will clarify queries on the Contract Data.

15. Contractor to undertake the Works

- 15.1 The Contractor shall undertake the Works in accordance with the Specifications, Conditions of Contract, Drawings, and as per the instructions of the Engineer.

16 The Construction/ Improvement Works to be Completed by the Intended Completion Date

- 16.1 The contractor shall commence execution of the construction/ improvement works on the start date and shall carry out the construction/ improvement works in accordance with the program submitted by the contractor, with the approval of the Engineer, and complete them in all respects by the intended completion date.
- 16.2 All the time during the construction period, Contractor shall notify the Engineer details of drawings and instructions required and of why and by when it is required. This notice shall be given by the contractor at least one month advance correlating the construction program.

17.0 Approval by the Engineer

- 17.1 The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Engineer, who is to approve them if they comply with the Specifications and Drawings.
- 17.2 The Contractor shall be responsible for design of Temporary Works.
- 17.3 The Engineer's approval shall not alter the Contractor's responsibility for the quality, and design of the Temporary Works, who shall bear all consequences of failures thereof.
- 17.4 The Contractor shall obtain approval of other parties/ agencies to the design of the Temporary work where required.

- 17.5 All Drawings prepared by the Contractor for the execution of the temporary or permanent works, are subject to prior approval by the Engineer before their use.

18.0 Safety

- 18.1 The contractor shall be responsible for the safety of all activities on the Site. The proposed work site falls in High speed road Corridor. In addition to the safety of workmen in the project, the Contractor is responsible for the safety of the road users. The Contractor shall at his own cost formulate and implement an efficient traffic movement/regulation plan so as to achieve safe and efficient movement of vehicular traffic and pedestrians.
- 18.2 The contractor shall make necessary safety arrangements and equipments specified in Appendix 1 of this section.
- 18.3 Any damage caused to the existing structure, the road surface and other appurtenances shall be remedied/restored/replaced to the original condition at the cost of the Contractor and to the satisfaction of the Employer.
- In case of default by the contractor, the Employer has the option to carry out the required remedial/ restoration/replacement works and deduct the expenditure incurred from the payments due to the Contractor.
- 18.4 The Contractor shall 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.
- 18.5 During continuance of the contract, the Contractor shall abide at all times by all existing enactments on environments on environmental protection and rules, labour laws made there under, regulations, notifications and bye-laws of the State or Central Government, or local bodies/authorities and any other law, bye-law, regulations that may be passes or notification that may be issued in this respect in future by the State or Central Government or the local authority.
- Salient features of some of the major laws that are applicable are given below:
- 18.6 The Water (Prevention and Control of Pollution) Act, 1974, provides for the prevention and control of water pollution and the maintaining and restoring of wholesomeness of water.
- 18.7 'Pollution' means such contamination of water or such alteration of the physical, chemical or biological properties of water or such discharge of any sewage or trade effluent or of any other liquid, gaseous or solid substance into water (whether directly or indirectly) as may, or is likely to, create a nuisance or render such water harmful or injurious to public health or safety, or to domestic, commercial, industrial, agricultural or other legitimate uses, or to the life and health of animals or plants or of aquatic organisms.
- 18.8 The Air (Prevention and Control of Pollution) Act, 1981, provides for prevention, control and abatement of air pollution. 'Air Pollution' means the presence in the atmosphere of any 'air pollutant', which means any solid, liquid or gaseous substance (including noise) present in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment.
- 18.9 The Environment (Protection) Act, 1986, provides for the protection and improvement of environment and for matters connected therewith, and the prevention of hazards to human beings, other living creatures, plants and property. 'Environment' includes water, air and land and the inter-relationship which exists among and between water, air and land, and human beings, other living creatures, plants, micro-organism and property.
- The Public Liability Insurance Act, 1991, provides for public liability insurance for the purpose of providing immediate relief to the persons affected by accident occurring while handling hazardous substances and for matters connected herewith or incidental thereto. Hazardous substance means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act 1986, and exceeding such quantity as may be specified by notification by the Central Government.

19.0 Discoveries

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

20.0 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 a part is not given by the agreed date stated in the Contract Data, then the Intended 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 the progress of work and if available work fronts remain unattended.
- 20.2 The Employer will coordinate with service provider/ concern authorities for shifting of utilities and removal of encroachments etc. and making the site unencumbered from the project construction area required for completion of work. This includes initial and frequent follow-up meeting / actions/ discussions with each involved service provider/ concern authorities. The contractor will not be entitled for any additional compensation for delay in shifting of utilities and removal of encroachments by the service provider/ local bodies/concern authorities.

21.0 Access to the Site

- 21.1 The Contractor shall allow the Engineer and any person authorized by the Engineer 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 / tested/ stored for the works.

22.0 Instructions

- 22.1 The Contractor shall carry out all instructions of the Engineer which comply with the applicable laws where the Site is located.

23.0 Disputes

- 23.1 If either party believes that a decision taken by the Employer was either outside the authority given to the Employer by the contract or that the decision was wrongly taken, the objecting party may file written notice of dispute to the other party with a copy to the Engineer stating that it is giving the notice pursuant to this Clause while stating clearly the basis for the dispute.
- 23.2 The party receiving the dispute notice will consider it and reply in writing within 30 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 only to the High Court of Madras (Chennai) for adjudication.
- 23.3 Further, in case of any dispute or difference between the parties to the contract either during the progress of the works or after the completion of the works or after the determination / abandonment of the contract or any other matter/s arising thereof shall be referred to or filed with the High Court of Madras (Chennai). No other courts or persons or bodies will have any jurisdiction over the dispute/s.

24.0 Deleted**B. Time Control****25.0 Program**

- 25.1 The Contractor should adhere to the construction programme submitted by the contractor and complete the works within the agreement time without any lapse.

26.0 Extension of the Intended Completion Date for Construction/ Improvement Works

- 26.1 The Engineer shall extend in consultation with Employer the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended 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 Engineer shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Engineer 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 Intended Completion Date.

27 Delays Ordered by the Engineer

- 27.1 The Engineer in consultation with the Employer may instruct the Contractor to delay the start or progress of any activity within the Works.

28 Management Meetings/ Site Visits

- 28.1 Either the Engineer or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the programme for the remaining work and to deal with the matters regarding progress of works etc.
- 28.2 The Engineer shall record the minutes of management meetings and is to provide copies of his record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken is to be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all 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 then the same shall be construed as fundamental breach of Contract in terms of Clause 54.

29 Early Warning

- 29.1 The Contractor is to warn the Engineer 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 works. The Engineer may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Completion Date. The estimate is to be provided by the Contractor as soon as reasonably possible.
- 29.2 The Contractor shall cooperate with the Engineer in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by any one involved in the work and in carrying out any resulting instructions of the Engineer.

B. Quality Control

30 Identifying Defects

- 30.1 The Engineer shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Engineer may instruct the Contractor to search for a Defect and to uncover and test any work that the Engineer considers may have a Defect.
- 30.2 The contractor shall permit the Employer's Technical auditor to check the contractor's work and notify the Engineer and Contractor of any defects that are found. Such a check shall not affect the Contractor's or the Engineer's responsibility as defined in the Contract Agreement.

31 Tests

- 31.1 The Contractor shall establish suitable Testing Facility with adequate and suitable equipment, to the satisfaction of the Engineer, in the vicinity of the Project Road or site office premises or Works Site premises. The cost of setting up the Testing Facility and testing there to shall be to the account of the Contractor. If the Engineer 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 any samples.

32 Correction of Defects

- 32.1 The Engineer 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.
- 32.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defects within the length of time specified by the Engineer's notice.

33 Uncorrected Defects

- 33.1 If the Contractor has not corrected a Defect within the time specified in the Engineer's notice, the Engineer will assess the cost of having the Defect corrected and rectify the defects if needed by employing other persons and the Contractor will pay this amount or can be recovered from the bills of the contractor.

D. Cost Control

34 Bill of Quantities (BOQ)

- 34.1 The Bill of Quantities for works contains items for the Works being implemented by the Contractor as in Section – V.
- 34.2 The Bill of Quantities is used to calculate the payment for works. The Contractor will be paid for the quantity of the work done at the rate in the Bill or Quantities for each item of work.

35 Changes in the Quantities

- 35.1 Any additional quantity required for completing the work will have to be carried out by the Contractor at the same quoted rate. There will be no percentage ceiling either addition or reduction in the quantities for completion of the project.
- 35.2 Provided further that no change in the rate or price for any item contained in the Contract shall be considered unless such item accounts for an amount more than 2 percent of the Contract Price, and the actual quantity of work executed under the item exceeds or falls short of the quantity set out in the Bill of Quantities by more than 25 percent

36. Variations during Implementation of Construction/ Improvement Works

- 36.1 Approval and methodology for all variations either Rate or Quantity should be followed as per the directions of the Engineer / Engineers representative.

37 Payments for Variations in Construction/ Improvement Works

- 37.1 The Contractor shall provide the Engineer with an estimate and quotation (with break up of unit rates) along with detailed justification ,vouchers ,for carrying out the Variation items, **if not available in the BOQ** and when requested to do so by the Engineer. The Engineer shall assess the quotation, with in a period of 7 (seven) days of the request (or) with in a reasonable time by the Engineer, and before the variation is ordered.

- 37.2 If the work in the Variation corresponds with an item description in the Bill of Quantities and if, in the opinion of the Engineer, the quantity of work above the limit stated in Clause 35 or the timing of its execution do not cause the cost per unit of quantity to change, the rate in the Bill of Quantities shall be used to calculate the value of the Variation. If the cost per unit of quantity changes, or if the nature or timing of the work in the Variation does not correspond with items in the Bill of Quantities, the quotation by the Contractor shall be in form of new rates for the relevant items of work as per the MORTH data book and standard procedures.”
- (a) The Contractor shall submit a detailed rate analysis with all supporting documents. Such analysis shall be prepared based on similar items available in Bill of Quantities, subject to mutual agreement between the Engineer and Contractor and according to the Standard MORTH Data Book adopting the schedule of rates for the current year applicable to the Chennai region of Tamil Nadu.
- (b) In case the data for the item is not available in the Standard MORTH Data Book, observed data with current schedule of rates applicable to Chennai region of Tamil Nadu shall be adopted.

With the concurrence of the Employer, the Engineer shall determine the quantities and rates for the variation works. Prior approval should be obtained for all the variation items from the employer.

- 37.3 If the Contractor's quotation is unreasonable (or if the contractor fails to provide the Engineer with a quotation within a reasonable time specified by the engineer in accordance with Clause 37.1), the Engineer shall fix the variation rate and make a change to the Contract Price which shall be based on Engineer's own forecast of the effects of the Variation on the Contractor's costs.
- 37.4 If the Engineer decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, the Engineer shall instruct in writing, to commence the additional works before the approval of the rate.
- 37.5 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.

38. Cash flow forecasts

The contractor is to provide the Engineer with a cash flow forecast and an updated cash flow forecast as appropriate.

39. Payment

- 39.1 “The Contractor shall submit a statement in 3 (three) copies to the Engineer by the 7th (seventh) day of each month, signed by the authorized representative of the Contractor, for the work executed up to the end of the previous month in a tabulated form approved by the Engineer, showing the amounts to which the Contractor considers himself to be entitled. The statement shall include the following items, as applicable, which shall be taken into account in the sequence listed:
- (a) the estimated value of work executed (Works executed & payable) up to the end of the month in question determined in accordance with conditions of contract, at base unit rates and prices;
- (b) The actual value certified for payment for the Temporary and Permanent Works executed up to the end of the previous month, at base unit rates and prices;
- (c) the estimated value at base unit rates and prices of the Temporary and Permanent Works for the month in question, obtained by deducting (b) from (a);
- (d) The value of any variations executed up to the end of the month in question, less the amount certified in the previous Interim Payment Certificate.
- (e) Amount to be deducted for all taxes in accordance with contract conditions.
- (f) Net amount of application, which will be expressed in Indian Rupees.

- (g) The details of RFI, joint measurement sheets, level sheets, test results to be enclosed along with the bill.

Notwithstanding the terms of this Sub-Clause or any other Clause of the Contract, no amount will be certified by the Engineer for payment until the Performance Security has been provided by the Contractor and approved by the Employer.”

39.2 Monthly Payments

“Within 7 (seven) days of receipt of the monthly statement from the Contractor in pursuant to above, the Engineer shall broadly determine the amount due to the Contractor and shall, accordingly, recommend to the Employer for release to the Contractor up to a maximum of 70% of net payment as part payment against the monthly statement, pending certificate of IPC by the Engineer. Within 10 (ten) days of the receipt of recommendation of the Engineer, the Employer shall make payment to the Contractor.

The said statement shall be approved or amended by the Engineer in such a way that in his opinion, it reflects the amount due to the Contractor in accordance with the Contract, after deduction, of any sums which may have become due and payable by the Contractor to the Employer. In cases where there is a difference of opinion as to the value of any item, the Engineer’s view shall prevail.

Within 21 (twenty one) days of the receipt of the monthly statement referred as above, the Engineer shall carry out check measurement as required by the employer and recommend payment of balance 30% of bill, if satisfied; Engineer to account for liquidated damages and other deductions, and add/deduct amounts to account for variation in price of bitumen as the case may be, while arriving at amount payable to contractor; if not satisfied with works, Engineer to inform Employer and instruct Contractor to complete the works within a stipulated time and carry forward this balance amount;

Engineer shall determine the amount due to the Contractor and shall deliver to the Employer and the Contractor, an Interim Payment Certificate, certifying the amounts due to the Contractor after adjusting the payment already released to the Contractor against the said statement.

Employer will make payment within 10 (ten) days of receipt of payment recommendation from Engineer; and

Notwithstanding anything contained herein above, the final payment due shall be made only upon completion of Improvement works, and suitable certification by the Engineer.

39.3 Retention money

In each Interim Payment Certificate (IPC) @ 5% of value of work executed during each bill will be withheld and the withheld amount will be refunded to the contractor along with the Final bill / Taking over certificate. The maximum amount of Retention money to be with held is restricted up to 5% of the contract value.

40 Delayed and Disputed Payments

40.1 The Employer shall pay the Contractor, the amounts certified by the Engineer within the periods stipulated in this Contract. If the Employer makes a late payment, the contractor shall be paid interest on the late payment along with the next payment. Interest shall be calculated from the date by which the payment should have been made upto the date when the payment is made at the rate of 8%p.a.

40.2 If an amount certified is increased either in a later certificate or as a result of any judgement, the contractor shall be paid interest upon the delayed payment as set out in this clause. Interest as referred above, shall be calculated from the date upon which the increased amount would have been accepted by the Employer in the absence of dispute.

41 Compensation Events

41.1 The following are compensation events unless they are caused by the Contractor;

- (a) The Engineer orders a delay in execution of works for a period of more than 60 days;
- (b) The effect on the Contractor of any of the Employer's Risks; and
- (c) Other Compensation Events listed in the contract data, if any.

41.2 If a Compensation Event would prevent the Works from being carried out in terms of the Contract, then the Employer shall extend the Intended Completion Date as may be warranted. The Engineer shall decide by how much the Intended Completion Date shall be extended.

41.3 As soon as information demonstrating the effect of each Compensation Event has been provided by the Contractor, it is to be assessed by the Engineer and the Intended Completion period shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Engineer shall adjust the Intended Completion Period on Engineer's own forecast. The Engineer will assume that the Contractor will react competently and promptly to the event.

41.4 The Contract shall be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor not having given early warning or not having cooperated with the Engineer/Employer.

42. Tax

42.1 The rates quoted by the Contractor shall be deemed to be inclusive of the service tax, sales tax, contract tax, royalty, Toll tax, cess and other taxes/duties/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.

42.2 The contractor shall have valid Registration for VAT and PAN as prescribed in Appendix 3

43. Currency

43.1 All payments shall be made in Indian Rupees.

44. Price Adjustment for Works

No Price adjustment shall apply to this work/contract

45. Penalty and Liquidated Damages

45.1 For Construction/ Improvement Works

(a) In case of non-completion of the construction / Improvement works within the Intended Completion Date as indicated in the Contract Data the Contractor shall pay liquidated damages to the Employer at the rate stated in the Contract Data for each day that the actual Completion Date is later than the Intended Completion Date. The liquidated damages amount shall be deducted from payments due to the Contractor and shall not be refundable. The total amount of liquidated damages shall not exceed the amount defined in the Contract Data,

(b) Time is the essence of the Contract and payment or deduction of penalty or liquidated damages shall not relieve the Contractor from his obligation to complete the works as per Construction Program and/or Milestones or from any other of the Contractor's obligations and liabilities under the Contract or the Employer's right to invoke the Performance Security.

45.2 For Maintenance Works

(a) In case the Contractor has not rectified or addressed deficiencies as directed by the Engineer at the time of Site inspections during defects liability period, the Employer retains the right to get works done through a third party and debit the cost and expenses incurred to the Contractor. Alternatively, the Engineer may recommend invoking of Performance Security in part or full, as the case may be. In case the Contractor still fails to rectify or address

deficiencies even after invoking Performance Security, as described earlier, then the Employer shall treat the event as fundamental breach of Contract in terms of Clause 54 of Conditions of Contract.

46.0 Deleted

47. Advance Payment for Construction/ Improvement Works

47.1 No Mobilisation advance/Machinery and equipment advance payment will be made to the Contractor for the works.

47.2 No material advance will be made or paid to the Contractor.

48. Securities

48.1 The Performance Security (including additional security for unbalanced bids) shall be provided to the Employer no later than the date specified in the Letter of Intent and shall be issued in an amount and form indicated in Contract Data from:

- a. State Bank of India or subsidiaries;
- b. Any Indian Nationalised Bank; or
- c. Any Scheduled Bank

As acceptable to the Employer, and denominated in Indian Rupees. The Performance Security shall be valid for period of 16 (Sixteen) months from construction commencement date or until 12 (Twelve) months beyond the completion date, whichever is later. In case the Intended Completion Date is extended, then the Contractor shall submit replacement Performance Security or extension of the date of the Bank Guarantee/s if any, furnished as security, for the same value valid up to a date one month beyond the issue of Defect Liability Certificate.

49. Cost of Repairs

49.1 Loss or damage to or defective works or Materials during the Contract Period shall be remedied by the Contractor at the Contractor's cost to the satisfaction of the Engineer/Employer. In case of default by the Contractor, the Employer shall carry out suitable remedial measures and deduct the amount incurred thereto from payments due to the Contractor.

E. Finishing the Contract

50. Completion

50.1 The Contractor shall request the Engineer to issue a Certificate of Completion of Works and the Engineer will do so upon deciding that the Works are completed in all respects.

50.2 Upon satisfactory compliance and observance of the performance standards by the Contractor during the Defect Liability Period, the Engineer shall suitably inform the Employer who may then issue the Certificate of Contract Completion to the Contractor, Subject to Contractor satisfying all Provisions under this Contract.

51 Taking Over

51.1 The Employer will take over the Site and the Works with in 1 month of the Engineer issuing a certificate of Contract Completion in terms of Clause 50.2.

52 Final Account

52.1 In case of Construction / Improvement Works, the Contractor shall supply to the Engineer a Detailed account of the total amount that the contractor considers payable under the Contract on or before 30 days beyond the Engineer shall assess the quality and completion status of Construction /improvement Works in terms of this Contract and upon satisfaction, shall certify

and final payment that is due to the contractor within 30 days of receiving the Contractor's account. If the Engineer is not satisfied, then the Engineer shall issue within 7 days thereto a schedule that states the scope of the corrections or additions that are necessary. If the Contractor fails to comply with the Engineer's instructions. The Engineer shall levy Liquidated Damages and shall recommend the Employer suitably. The Employer retains the right to employ a third party and carry out the remaining works and deduct the payment from pending bills of the Contractor.

53 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 Contract includes, but shall not be limited to the following:

- (a) Contractor stops work for 28 days when no stoppage of work is shown on the program and the stoppage has not been authorized by the Employer.
- (b) Employer or the Contractor is made bankrupt or goes into liquidation, other than for a reconstruction or amalgamation
- (c) Payment certified by the Engineer is not paid by the Employer to the Contractor within 60 days of the Engineer's Certificate.
- (d) The Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
- (e) The Contractor does not maintain a security (performance security, Security against Advance Payment etc) which is required;
- (f) In case of the Contractor has awarded more than 20% of value of works on sub-contract
- (g) The Contractor has defaulted in fulfilling his obligations under this Contract;
- (h) The Contractor has contravened clause 7,8 and 9 of the conditions of contract
- (i) The Contractor does not adhere to the construction program (clause 25 of Conditions of contract) and also fails to take Satisfactory remedial action as per agreements reached in the management meetings (clause 28) for a period of 30 days;
- (j) The Contractor fails to carry out the instructions of Engineer within a reasonable time determined by the Engineer in accordance with Clause 15.1 and 22.1 of the conditions of Contract.
- (k) The contractor has delayed the completion of works by the number of days for which the maximum amount of liquidated damages can be paid as defined in the Contract Data; and
- (l) If the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in the executing the Contract.

For the purpose of this paragraph "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official or the Employer or Engineer in the procurement process or in contract execution. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract, and includes collusive practice among Contractors (prior to or after bid submission) designed to establish bid prices at artificial non competitive levels and to deprive the Employer if the benefits of the free and open competition."

- 54.3 When either party to the Contract gives notice of a breach of Contract to the Engineer for a cause than those listed under Clause 54.2 above, the Engineer shall decide whether the breach is fundamental or not.
- 54.4 Notwithstanding the above, the Employer may terminate the Contract for his convenience.
- 54.5 If the Contract so terminated the Contractor shall stop work immediately make the site safe and secure and leave the site as soon as reasonably possible.
- 54.6 In case the Contractor fails to carryout the works, as per the construction programme and as per the conditions stipulated in the Bid Document, then the Employer, at its sole discretion is entitled to terminate this contract at the '**Risk and Cost**' of the Contractor and to employ such other Contractor/s to carryout the balance works. The additional cost incurred by the employer in completing the works, which remain unfinished at the time of termination of the contract will be recovered from the Contractor. Any unrecovered '**Risk and Cost**' amount will be a debt payable to the Employer and the Employer will take suitable actions for such unrecovered '**Risk and Cost**' amount at the cost of the Contractor. Any bill/s for the works executed remains unsettled and/or the value of materials, machineries etc., taken over or possessed by the Employer at the time of termination or on termination will be adjusted towards the '**Risk and Cost**' recoverable from the contractor.

55. Payment upon Termination

If the Contract is terminated because of fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done less advance payment received up to the date of the issue of the work certificate, less other recoveries due in the terms of the Contract, less taxes due to be deducted at source as per applicable law and the estimated/actual '**Risk and Cost**' to be recovered from the contractor due to termination. 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.

If the Contract is terminated at the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Engineer shall issue a certificate for the value of the Works done, the reasonable cost removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's cost 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.

56 Property

- 56.1 All materials on the site, plant, Equipment, Temporary Works and Works are deemed to be property of the Employer, if the Contract is terminated because of a Contractor's default.

57. Release from Performance

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

58. Maintenance of ROW

- 58.1 Throughout the period of the Contract, the Contractor shall at all times maintain public vehicular access along the right-of-way to all public and private access and land. The contractor on written request to the Engineer, (including a drawing, program and specification), be given approval to operate.

59. Field Laboratory with Equipment and Tests

- 59.1 Without any extra cost shall provide and maintain adequately equipped field laboratory,

- 59.2 The cost of making any test to be conducted on all types of materials as per quality assurance plan MoRT&H /IRC/ IS/ BIS/ AASHTO specifications shall be borne by the contractor, and the contractors quoted rates shall include the same.
- 59.3 Third Party Inspection on Factory / Site shall be arranged by the contractor as per the instruction of the Employer. The Employer (or) Third Party Quality Auditor(s) appointed by the Employer shall be entitled to visit Factory / Site, Conduct sampling and testing on the Products/works in accordance with relevant specifications. The entire expenses towards the third party inspection shall be borne by the contractor.

60. Approval of Proprietary Product / Process / System

Within 7 days of award of the work the Contractor shall submit the following information for all proprietary products for approval by the Engineer.

The Engineer may instruct and additional tests for the purpose of accepting the product which shall be followed by the Contractor.

I. Name of manufacturer and name of product/process/system.

Complete details of manufacturer of the product/process/system shall be furnished. Details of where similar product/process/system has been successfully used are furnished. Authenticated copies of License/ collaboration agreement shall be furnished.

II. General features of the product/product process system.

Detailed write-up with method statements shall be furnished for each product/process system. This shall include complete working drawings and installation drawings, technical specification covering fabrication, material, system of corrosion protection, etc

III. Acceptance test and criteria

Manufacturer shall submit a quality assurance system document. Details of acceptance test and criteria of acceptance shall be furnished in this document.

APPENDIX 1**Safety Measures****I Contractor's Liability**

The contractor shall be absolutely and solely responsible for any and all kinds of injuries or damages to person and property of any description whatever may be caused by or result from the execution of the works, whether these may have been carried out skillfully and carefully and strictly in conformity with the provisions of the specifications or not.

II Responsibility for Accidents, Damages etc.

The care of the whole of the permanent works shall remain with the contractor who shall be responsible for all accidents or damages from whatever cause arising and chargeable for anything that may be stolen, removed destroyed or damaged to whomsoever belonging and also for making good all defects and damages to the said works or to any property adjoining or any cause whatever whether such damage or defects were occasioned by the negligence of the contractor or not or may be or might have been discovered during the progress of the works or in consequences thereof, or shall appear to be known after the completion whereof or whether payment may wholly or partially have been made or the works approved as supposed to have been properly done and no certificate of approval of any works by any officers or TNRDC shall affect or prejudice the right of TNRDC against the contractor or be considered or held as at all conclusive as to the sufficiency of any works or materials.

III Contractor to be responsible for all Trespasses and Damages

In the event of accidents to any person including employees of TNRDC on duty, damages to property, trespass on land, injury to cattle, horses, or other animals or damage injury of any description to any person or thing arising out of the execution of the works, the contractor shall be held responsible for and make good the same and shall indemnify TNRDC from all claims or expenses on account thereof and if TNRDC has to pay any money in respect thereof the sum so paid and the costs incurred by TNRDC shall be charged to the contractor as so much money paid to him on account of his contract and the contractor shall not be at liberty to dispute or question the right of TNRDC to make such payment for him or on his account notwithstanding the same may have been made without his consent of authority and decision or determination in law or otherwise to the contrary notwithstanding. TNRDC shall not be liable to, or for in respect of any damages or compensation or claim there for, under any Act for the time being in force or common law because or by reason or in consequences of any accident or injuries to workmen or others in the employment of the contractor or any subcontractor or of any person acting under him or on his behalf or the staff / persons employed by TNRDC for supervision of the work under his contract and the contractor shall save TNRDC harmless and indemnify in respect thereof and of any all costs and expenses incidental there to or consequent thereon.

IV Safety Measures

1. All the works to be carried out in and around the work site, it must be under the contractors supervision with their supervisor, at their own risk and cost
2. The contractor should possess rubber gloves, gum safety boots, helmet, face mask, torch light, emergency light etc. as safety equipments in good condition
3. Each and every employee of the contractor should have insurance cover under workmen compensation act.
4. The Contractor has to carry out any activity of the construction work only after informing and getting concurrence of TNRDC / Engineer in charge.

V Safety Equipments & Loose Tools:

The Contractor will be responsible to make available the safety equipment and loose tools as listed below. If the Contractor fails to keep the safety equipment and loose tools and consumable items as listed the above will be procured by TNRDC and the cost will be deducted immediately from the bill payable to the contractor with a penalty of Rs. 2,000/-

VI Safety Measures to be adhered

1. Only experienced, skilled people have to be employed by the contractor
2. All personnel should be covered by insurance under workmen compensation act.
3. All labour act provisions has to be met with.
4. Rubber gloves, gum safety boots, helmet, face mask, torch light, emergency light etc are need to be provided by the contractor.
5. Exhibit labels of "Safety First"

VII List of Safety equipments to be provided by contractor

SI No	Name of Equipment
1	Face Mask
2	Shock proof hand gloves
3	Disposable hand gloves
4	Gum boot / Safety shoes
5	First Aid Box
6	Emergency light
7	Helmet / hard hat
8	Safety cones
9	Traffic barriers
10	Warning lights
11	Red flags
12	Caution boards

Note: The above is only an illustrative minimum list. The contractor must note that it is their responsibility to ensure the lives and safety of the workers employed by them. Towards this end, all the equipments of appropriate specifications should be procured and made available to the workers in usable conditions throughout the period of contract. Responsibility for any health problem or death will solely rest with contractor.

APPENDIX 2**Labour Statutory Requirements****I General**

The Contractor shall confirm to and comply with the regulations and by-laws of the State or Central Government or TNRDC and of all other local authorities such as Corporation of Chennai, The Tamil Nadu Electricity System, The Chief Electrical Inspector to Government of Tamil Nadu, The Government Customs and Police Departments Fire Service, the provisions contained in the various Labour Acts enacted by the State Legislature and Central Parliament in force and rules made there under including those under Minimum Wages Act, Factories Act, The Indian Electricity Act and rules framed under it, Workmen Compensation Act, The Employees State Insurance Act 1948, Provident Fund Regulations Act, The EPF and Miscellaneous Provisions Act 1952, Employees Provident Fund 1961 and scheme made under the said Act, Health and Sanitary Arrangements for workers etc. and the Contract Labour (Regulation and Abolition) Central Act 1970 and the Contracts (Regulation and Abolition) Central Rules 1971 etc. for Welfare and protection of works, workers or for the safety of the public and other Insurance provisions.

II Further, the Contractor has to give a declaration for the following provisions:-

- i. That in the capacity of Contractor, the Contractor has to comply with the provisions of Contract Labour (Regulation & Abolition) Act, 1970 by obtaining a valid license under the Act and the Rules thereto and similarly under Factories Act wherever applicable.
- ii. The Contractor has to pay the wages in accordance with the Minimum Wages Act to all his / their employees
- iii. That the Contractor has to abide to recover the Employees Provident Fund and the Employees' Insurance contributions (both Employees and employers contribution) from the payment of bills every month
- iv. The Contractor's Code Nos. for E.S.I and E.P.F. are----- & ----- and both the Employees, Employers contributions will be remitted by the contractor in his / their code numbers and copy of the remittance challans will be produced. In case, if the contractor is failing to remit, he / they will inform wage rates of employees to the Principal employer so that they can remit Employees' State Insurance Contribution & Employees Provident Fund contribution (both for employer and employee) and authorize them to make deductions from the payment of bills
- v. That the contractor has to contribute towards Tamil Nadu Manual Worker (Regulations of Employment and Conditions of work) Act, 1982 fund at the percentage prescribed by the Government from time to time.
- vi. That the contractor has to further declare and undertake that in case of any liability pertaining to his / their employees is to be discharged by the Principal Employer for his / their lapse, the contractor undertake to reimburse the same or the Principal Employer is authorized to deduct the same from the contractor's dues as payable.
- vii. That the contractor will maintain the Registers and records about the Contract Labour employed under Section 29 of Labour (Regulation & Abolition) Act wherever applicable
- viii. That the contractor will take insurance policy under Workmen Compensation Act to meet out any untoward incident until the contract labourers are issued with ESI card

III Compliance with Labour Regulations

During continuance of the contract, the contractor and his sub contractors shall abide at all times by all existing labour enactment's and rules made there under, regulation, notifications and bye laws of the State or Central Governments or local authority and any other labour law (including rules), regulations, bye laws 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 the local authority. The Contractor shall keep TNRDC indemnified in case any action is taken against TNRDC by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulation's or notifications including amendments. If TNRDC 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 Engineer / TNRDC shall have the right to deduct any money due to the contractor including his amount of performance security. TNRDC/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by TNRDC.

The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of TNRDC at any point of time.

IV Contribution to Fund

Notwithstanding anything contained in any Law for the time being enforced or in any agreement every person / Contractor who undertakes any Civil work shall be liable to pay a sum at such percent, not exceeding one percent of the total estimated cost of the work as may be fixed by the Government, by notification, as contribution to the fund constituted for the benefit of manual workers in the employment in Civil Works under a scheme, framed under Section 3 of Tamil Nadu Manual Workers (Regulation of Employment and conditions of Work) Act, 1982. The percentage of total estimated cost of work, as may be fixed by the Government notification from time to time shall be paid by the Contractor.

V Contract Labour Welfare

- i. The rights and benefits conferred on the workmen employed by the contractor under the provisions of various Labour Laws are the responsibility of the contractor. The contractor has to indemnify TNRDC in case of loss or any damages. It is the responsibility of the contractor to take insurance policy under Workmen's compensation Act, 1923 for each labour engaged by the contractor. The contractor will be responsible for any deficiency on safety measures to be adhered as stipulated in Safety measures to be adhered in Appendix 1. A photocopy of the insurance under Workmen's Compensation Policy should be furnished to TNRDC. The policies should be kept alive till the completion of the contract period.
- ii. The Contractor shall produce fitness certificate from any Authorized Medical Attendant (AMA) of Government Hospital for all the Technical Staff and Labour Staff to be employed.

VI Following Laws shall be adhered to by the contractor wherever applicable

- a. Workmen Compensation Act, 1923
- b. Payment of Wages Act, 1936
- c. Industrial Disputes Act, 1947
- d. Minimum Wages Act, 1948
- e. Factories Act, 1948
- f. Employees PF and Miscellaneous Act, 1952
- g. Payment of Bonus Act, 1965
- h. Payment of Gratuity Act, 1972

- i. Equal Remuneration Act, 1979
- j. Maternity Benefit Act, 1951
- k. Contract Labour (Regulation & Abolition) Act 1970
- l. Industrial Employment (Standing Orders) Act 1946
- m. Trade Unions Act 1951
- n. Child Labour (Prohibition & Regulation) Act 1986
- o. Inter-State Migrant Workmen's (Regulation of Employment & Conditions of Service) Act 1979
- p. The Building and other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996
- q. Employee State Insurance Act, 1948
- r. The Tamil Nadu Manual Workers (Regulation of Employment and Conditions of Work) Act, 1982
- s. The Bonded Labour System (Abolition) Act, 1976
- t. The Employer's Liability Act, 1938

VII Elimination of Child Labour

1. Attention of all contractor are invited to the Child Labour (Prohibition and Regulations) Act 1986, which prohibits employment of children below 14 years of age in certain occupations and process and provides for regulations of employment of children in all other occupations and progress. Employment of child labor is prohibited in building and construction industry.
2. Hence all the contractors are requested to adhere to the provisions in the above Act and see that engagement of child labour in the operational activities of TNRDC are completely prohibited. Any violation of the provision will lead to penal action and removing of the contractor from the list of registered contractors.

APPENDIX 3

Tax Registration Number

We confirm that our firm/company has valid VAT/PAN details as under:

i) VAT No. _____

ii) PAN No. _____

We confirm that our firm/company has valid ESI/EPF codes as under:

i) ESI No. _____

ii) EPFNo. _____

Section IV

Contract Data

SECTION IV CONTRACT DATA

Item	Clause Reference
The following documents are also part of the contract and enclosed as Appendix	2.3
Detailed program regarding Work Methodology, Quality control	25
<p>The Employer is :</p> <p>Tamil Nadu Road Development Company Ltd (TNRDC), Sindur Panthion Plaza, 2nd Floor, 346, -Pantheon Road, Egmore, Chennai- 600 008.</p> <p>Phone: 044 - 2819 4800, 044 - 2819 4900 Fax 91- 44 -2819 5800</p> <p>Name of Authorised Representative : Managing Director / TNRDC</p> <p>-----</p> <p>Engineer is :</p> <p>Tamil Nadu Road Development Company Limited, (TNRDC) Sindur Panthion Plaza, 2nd Floor, 346, -Pantheon Road, Egmore, Chennai- 600 008.</p> <p>Phone: 044 - 2819 4800, 044 - 2819 4900 Fax 91- 44 -2819 5800</p> <p>Name of Authorised Representative : Vice President (Operations)</p>	1.1
<p>The name of the Contract is :</p> <p>“Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road”</p>	1.1
The Start Date shall be the date of issue of Acceptance letter / Notice-to-Proceed by the Contractor for the Works.	1.1
Intended Completion Date: 4 months from the Date of Commencement as indicated in the Notice to Proceed with the Works / Acceptance letter.	1.1,16,26
The Contractor Shall submit a Detailed Work Program including Construction Program, Work Methodology, Quality Control, for the works (in such form and detail as the Engineer prescribe) within 7 days of delivery of letter of Intent. The Program should have adequate details and conform to this contract provisions, the program should be submitted along with the bid	25
The Site Possession Date shall be the date of commencement of work as indicated in the Acceptance letter/Notice to proceed with the works.	20
The Site is “Realignment works at Km 91/000 including construction of 4 Nos of Box Culvert in East Coast Road”	1

The Defects Liability Period is 12 months after improvement / construction works Completion Date/ from the date of issue of completion certificate which ever is later	50.2												
<p>Insurance requirement</p> <table border="0"> <thead> <tr> <th style="text-align: left;">Item</th> <th style="text-align: left;">Minimum cover for</th> </tr> </thead> <tbody> <tr> <td>Works, Plant and material</td> <td>Equivalent to 1.15 X contract value</td> </tr> <tr> <td>Fire policy/ Loss or damage to Equipment</td> <td>Rs 10 Lakhs</td> </tr> <tr> <td colspan="2"><u>Personal Injury or death Insurance</u></td> </tr> <tr> <td>For other people</td> <td>Rs 10 Lakhs</td> </tr> <tr> <td>Contractor's employee</td> <td>In accordance with applicable existing laws</td> </tr> </tbody> </table>	Item	Minimum cover for	Works, Plant and material	Equivalent to 1.15 X contract value	Fire policy/ Loss or damage to Equipment	Rs 10 Lakhs	<u>Personal Injury or death Insurance</u>		For other people	Rs 10 Lakhs	Contractor's employee	In accordance with applicable existing laws	13
Item	Minimum cover for												
Works, Plant and material	Equivalent to 1.15 X contract value												
Fire policy/ Loss or damage to Equipment	Rs 10 Lakhs												
<u>Personal Injury or death Insurance</u>													
For other people	Rs 10 Lakhs												
Contractor's employee	In accordance with applicable existing laws												
The Period between Program updates shall be 15 days	25												
The language of the Contract Document is English	3												
The law which applies to the Contract is the law of Union of India	3												
The currency of the contract is Indian Rupees.	43												
Retention money :- In IPC's @ 5 % of value of each bill will be withheld and the withheld amount will be refunded to the Contractor along with the Final Bill / Taking over certificate.	39.3												
Penalty for not attending Management Meetings/ Site Visits : Rs 1000/- per incidence The maximum amount of the penalty is two percent of initial contract Price for Works.	28.2												
The liquidated damages for non-completion of construction works within the Intended Completion date shall be 0.5% of the contract value for each weeks delay or part there of beyond the completion date. The maximum amount of liquidated damages for the whole of the works is Ten percent of final contract price for works.	45.1												
Performance Security shall be of 5 percent of Contract Price for Construction and Improvement Works as stated in the Acceptance letter / work order, valid for 16 months from commencement Date of Construction / Improvement works or until 12 months beyond the Intended Completion Date for Works, whichever is later. The standard form of Performance Security acceptable to the Employer shall be an unconditional and irrevocable Bank Guarantee of the type as presented in section – II of Bidding Documents.	48												

Section V
Bill of Quantities

Bill of Quantities for works**(BOQ)****A. Preamble**

1. The Bill of Quantities shall be read in conjunction with the Instruction to Bidders, General and Special Conditions of Contract, Technical Specifications and Drawings.
2. The quantities given in the Bill of Quantities are approximate and provisional, which are given to provide a common basis for making payment for works. Actual quantities of work are likely to increase or decrease as per the requirement at site. Hence there is no claim for any additional or less quantities than the specified in the BOQ.
3. The rates in the Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all construction plant, labour, supervision, materials, erection, transportation, maintenance, insurance, administrative overheads, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract.
4. The Bidder shall indicate the unit rate and line total on the Total Estimate Bid Amount, which shall be applicable on each item of the Bill of Quantities, whether quantities are stated or not.
5. General directions and description of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the Bill of Quantities. References to the relevant sections of the contract documentation shall be made before entering prices against each item in the Bill of Quantities.
6. The method of measurement of completed work for payment shall be in accordance with relevant best practices IRC/IS/ BIS /AASHTO or as per codal provisions/specifications as may be decided by the Employer.

BOQ

I. Road Works

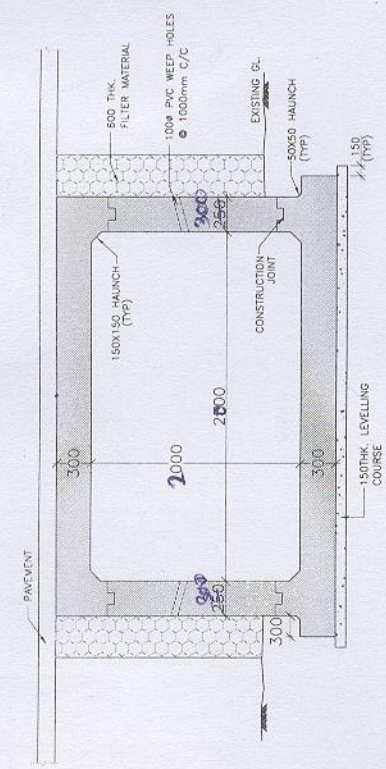
S.No	Reference to MoRTH specification	Description of the work	UNIT	QTY	RATE		Amount
					Figure	Words	
1	201	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees firth upto 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable materials to be used or auctioned with all leads and lifts including removal and disposal of top organic soil not exceeding 150 mm in thickness.	Ha	0.83			
2	301	Earth work excavation for roadway in all types of soil including soft rock, soft and hardmurrum, soil mixed with boulders, clay, sand by mechanical means including loading cutting and pushing the earth to site of embankment with all leads and lifts, including trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections as per the drawings and directions of the Engineer - in-charge.	CUM	277.50			
3	305	Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of Table 300-2 of MORTH specification	CUM	3937.50			
4	305	Construction of sub grade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope , watering and compacting to meet requirement of Table 300-2 of MORT & H specification and as per directions of Engineer-in-charge	CUM	4175.00			
5	401	Construction of granular sub-base by providing coarse graded materials as per Grading-I (Table 400-2) spreading in uniform layers on prepared surface, watering, mixing mechanically by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the 98 % MDD, including cost and conveyance of all materials, labour, machineries etc., complete as per standard specifications and directions of Engineer-in-charge.	CUM	1210.00			
6	406	Providing, laying, spreading and compacting graded stone aggregate of size 45 mm to 75 micron as per Table 400-11 to Wet Mix Macadam specification including premixing the material with water at OMC in mechanical mixing plant, carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the 98% MDD including cost and conveyance of all materials, labour, etc., complete as per standard specifications and directions of Engineer-in-charge	CUM	932.25			

7	502	Providing and applying prime coat with bitumen emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.60 kg per sqm using mechanical means including cost and conveyance of all materials to site including labour and hire charges etc., complete as per standard specifications and directions of Engineer-in-charge.	SQM	6215.00			
8	503	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sq.m on the prepared bituminous surface & granular surface, cleaned with mechanical broom and by using air compressor including cost and conveyance of all materials to site including labour, machinery etc., complete as per standard specifications and directions of Engineer-in-charge.	SQM	6955.00			
9	507	Providing and laying Dense graded bituminous macadam with 100 - 120 THP hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder at 4.0 to 4.5% by weight of total mix and filler, transporting the hot mix to site, laid over a previously prepared surface with a hydrostatic paver finisher with sensor control to the required grade, level and alignment and rolled with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per clause 507 of MORT & H specifications complete in all respects.	CUM	642.00			
10	509	Providing and laying bituminous concrete with 100 - 120 THP hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder at 5.4 to 5.6% by weight of total mix and filler, transporting the hot mix to site, laid over a previously prepared surface with a hydrostatic paver finisher with sensor control to the required grade, level and alignment and rolled with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per clause 508 of MORT & H specifications complete in all respects.	CUM	273.00			
11	803	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes.	SQM	195.00			
12	800	Providing and fixing of road studs 100x100, diecast in Aluminium, resistant to corrosive effects of salt and grit, fitted with 43 glass elements(Two way) reflectors, installed in concrete or asphaltic surface by drilling hole 30mm upto a depth of 60mm and bedded in a suitable bituminous grout or epoxy mortar all as per BS:873 (part 4) 1973 (Make Swareflex or equivalent)	Nos	260.00			

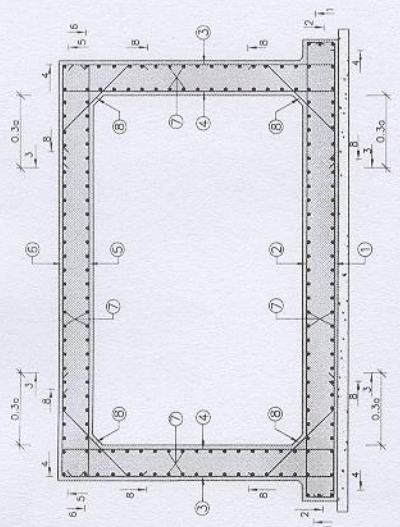
II. Cross Drainage works

13	Spl Spec	Dismantling of flexible pavements, existing pipes, concrete and disposal of dismantled materials with all leads and lifts etc complete as per Technical specifications and directions of Engineer- in-charge	Cu.m	55.2			
14	304	Earthwork excavation for foundation of structures as per drawings and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material etc complete as per directions of Engineer-in-charge..	Cu.m	844.8			
15	304	Sand Filling in Foundation Trenches as per Drawing & Technical Specifications :	Cu.m	21.2			
16	1500, 1700 & 2099	Plain cement concrete M 15 [1:2:4 nominal mix] in foundation with crushed stone aggregates 40 mm nominal size mechanically mixed, including cost and conveyance of all materials to site, formwork, centering, labour charge, laying, compacting, curing etc.. and as directed by Engineer-in-charge.	Cu.m	22.56			
17	1600 & 2200	Supplying, fitting and placing Mild steel reinforcement in superstructure complete as per drawing and technical specification and as per directions of Engineer-in-charge.	MT	25			
18	1500, 1700 & 2100	Reinforced Cement concrete M 30 in foundation with crushed stone aggregates 20 mm nominal size mechanically mixed, including cost and conveyance of all materials to site, formwork, centering, labour charge, laying, compacting, curing etc.. and as directed by Engineer-in-charge.	Cu.m	221.52			
19	710.1.4 of IRC :78 & 2200	Providing and laying of filter media with granular materials / stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2 of MORT & H specifications to a thickness of not less than 600 mm with smaller size towards the wall and provided over the entire surface behind abutment, wing walls and return walls to the full height compacted to a firm condition complete as per drawing and technical specifications.	Cu.m	129.6			
20	710.1.4 of IRC :78 & 2200	Back filling behind abutment, wing walls / return wall complete as per drawing and technical specifications.	Cu.m	300			
21	305	Construction of sub grade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of Table 300-2 of MORTH & specification as per directions of Engineer-in-charge	Cu.m	5040			
22	Spl Spec	Providing Diversion arrangement with safety measures by using stickers, sign boards, Speed breakers, Studs etc..	LS				
Total amount							

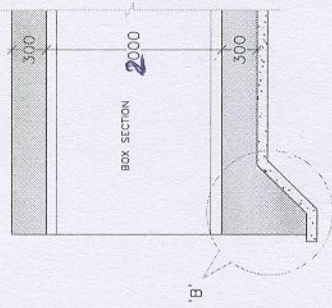
Section VI
Drawings
(For Tender Purpose Only)



TYPICAL CROSS SECTION OF BOX CULVERT



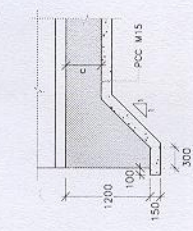
RC DETAIL OF BOX CULVERT



LONGITUDINAL SECTION OF BOX CULVERT

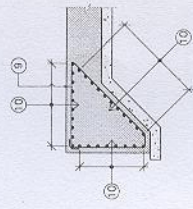
REINFORCEMENT SCHEDULE OF BOX CULVERTS

NO.	DESCRIPTION	QUANTITY	UNIT	GRADE OF CONCRETE
1	150	150	M	M40
2	150	150	M	M40
3	VARIES	150	M	M40
4	150	150	M	M40
5	150	150	M	M40
6	150	150	M	M40
7	150	150	M	M40
8	250	150	M	M40
9	150	150	M	M40
10	150	150	M	M40



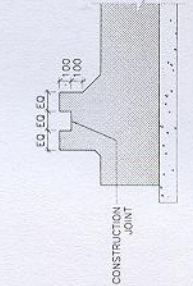
NUMERATION DETAILS

BOX END DETAIL-B (SCALE 1:50)



R.C. DETAILS

DETAIL-A (SCALE 1:30)



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED. DONOT SCALE THE DRAWING.FOLLOW FIGURED DIMENSIONS ONLY.
2. GROUND AT FOUNDING LEVEL SHALL BE COMPACTED WELL BEFORE LAYING LEVELLING COURSE.
3. ALL THE PCC WORKS SHALL BE DONE IN M15 GRADE CONCRETE. INNER FACE REINFORCEMENT SHALL BE 40mm.
4. COVER TO EARTHEN FACE REINFORCEMENT SHALL BE 75mm & REINFORCEMENT SHALL BE HYSD BARS OF GRADE Fe415.
5. THE FILLING OF EARTH ON EITHER SIDE OF BOXCULVERT SHALL BE TAKEN UP SIMULTANEOUSLY. AT NO STAGE THE DIFFERENCE IN HEIGHT OF EARTH FILL SHALL BE PERMITTED TO EXCEED 300mm
6. THE BACK FILLING SOIL SHALL HAVE A ϕ VALUE OF 25.

Section VII
Technical Specifications

PREAMBLE

1.0 The Technical Specifications contained herein shall be read in conjunction with the other Bidding Documents.

1.1 Site Information**General**

1.1.1 The information given hereunder and provided elsewhere in these documents is given in good faith by the Employer but the Contractor shall satisfy himself regarding all aspects of site conditions and no claim will be entertained on the plea that the information supplied by the Employer is erroneous or insufficient.

1.1.2 The area in which the works are located is in plain terrain, the approximate longitude and latitude of the region (Tamil Nadu) being $76^{\circ} 15'/80^{\circ} 20'$ East and $8^{\circ} 05'/13^{\circ} 35'$ North.

1.1.3 Climatic Conditions

1.1.3.1 The temperature in this region is as under:

- i) During summer months, the average maximum temperature is 42°C .
- ii) During winter months, the average minimum temperature is 18°C .

1.1.3.2 The average annual rainfall in the area is of the order of 800mm.

1.1.4 Seismic Zone

The works are located in Seismic Zone-II as defined in IS :1893 (Part I) - 2002

2 GENERAL REQUIREMENTS

The Technical Specifications in accordance with which the entire work described hereinafter shall be constructed and completed by the Contractor shall comprise of the following. All the specification given in the relevant codes, MoRTH shall be adhered to during execution of the work

2.1 Part-I: General Technical Specifications

The General Technical Specifications shall be the "SPECIFICATIONS FOR ROAD AND BRIDGE WORKS" (Fourth Revision August 2001, Reprint, September 2004), issued by the Ministry of Road Transport and Highways, Government of India and published by the Indian Roads Congress, henceforth called MORT&H Specifications and deemed to be bound into this document.

2.2 Part-II: Supplementary Technical Specifications

2.2.1 The Supplementary Technical Specifications shall comprise of various Amendments/Modifications/Additions to the "SPECIFICATIONS FOR ROAD AND BRIDGE WORKS" referred to in Part-I above and Additional Specifications for particular item of work not already covered in Part-I.

2.2.2 A particular clause or a part thereof in "SPECIFICATIONS FOR ROAD AND BRIDGE WORKS (Fourth Revision August 2001, Reprint, September 2004)" referred in Part-I above, where Amended/Modified/Added upon, and incorporated in Part-II, referred to above, such Amendment/Modification/ Addition supersedes the relevant Clause or part of the Clause.

2.2.3 The Additional Specifications shall comprise of specifications for particular item of works not already covered in Part-I.

2.2.4 When an Amended/Modified/Added Clause supersedes a Clause or part thereof in the said Specifications, then any reference to the superseded Clause shall be deemed to refer to the Amended/Modified/Added Clause or part thereof.

2.2.5 In so far as Amended/Modified /Added Clause may come in conflict or be inconsistent with any of the provisions of the said MORT&H Specifications under reference, the Amended/Modified/Added Clause shall always prevail.

2.2.6 **Additional Specifications**

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

The latest edition till 28 days before the final date of submission of the bid of all specifications / standard shall be applicable.