

# **Rajasthan State Road Development & Construction Corporation Ltd.**



**BIDDING DOCUMENT**

**FOR WORK OF DEVELOPMENT OF**

**BANSWARA-RATLAM ROAD (SH-10)**

**FROM KM. 125/0 TO 140/0**

---

**RAJASTHAN STATE ROAD DEVELOPMENT & CONSTRUCTION  
CORPORATION LTD. (RSRDC)**

**COMPETITIVE BIDDING**

1. AGREEMENT NO. \_\_\_\_\_

2. NAME OF WORK : DEVELOPMENT OF BANSWARA-RATLAM ROAD  
(SH-10) FROM KM. 125/0 TO 140/0

3. OFFICER INVITING BID : Managing Director , RSRDCC Ltd.

4. PLACE OF OPENING OF BIDS :  
Project Director, Unit Udaipur  
137, Navratan Complex  
Bedla Road  
Fatehpura, Udaipur

5. IMPORTANT DATES/ TIMES:

S. NO.	ITEM	DATE	TIME HRS
1	LAST DATE OF SALE OF BIDDING DOCUMENT	21/09/2010	18:00
2	TIME AND DATE OF PRE-BID CONFERENCE	13/09/2010	11:00
3	LAST DATE AND TIME FOR RECEIPT OF BIDS	23/09/2010	15:00
4	TIME AND DATE OF OPENING TECHNICAL BIDS	27/09/2010	11:00
5	TIME AND DATE OF FINANCIAL BIDS	TO BE ANNOUNCED	

**RAJASTHAN STATE ROAD DEVELOPMENT & CONSTRUCTION  
CORPORATION LTD. (RSRDC)  
INVITATION FOR BID (IFB)**

Bid No.:

Date:

- 1 The Rajasthan State Road Development & Construction Corporation Ltd (RSRDC) invites bids for the construction of works as below. A bidder may submit bids for any or all of these works.

**TABLE**

S. No	Name of Work	Approx Length (Km)	Approx Value Rs. Crore	Bid Security (2%) Rs lacs	Period of Completion months	Last Date of sale	Date of receipt	Date of opening	Date of pre-bid	Place of Sale & Submission
1	2	3	4	5	6	7	8	9	10	11
5	Development of Banswara-Ratlam road (SH-10) from km 125/0 to 140/0	15 Km	32.00	64.00	10 Months	21-09-10	23-09-10	27-09-10	13-09-10	1. Project Director, Unit – Jodhpur, 12-A-Shanti Vihar Colony, Panch Batti Circle, Gaurav Path, Ratanada, Jodhpur Email ID: <a href="mailto:re-jodhpur-i@rsrdc.com">re-jodhpur-i@rsrdc.com</a> Tel: 0291-2670677 2. Project Director, Unit-1st, Head Office RSRDC Jaipur Email ID: <a href="mailto:re-jaipur-i@rsrdc.com">re-jaipur-i@rsrdc.com</a> Tel No. 0141-27111386 – Ext.334 3. Project Director, Unit- Udaipur (137, Navratan Complex, Bedla Road, Fetehpura Udaipur :- 0294-2451400, Email ID: <a href="mailto:re-udaipur@rsrdc.com">re-udaipur@rsrdc.com</a> )

- 2 The bid documents may be
- i. downloaded in pdf format from official website of RSRDC [www.rsrdc.com](http://www.rsrdc.com) free of cost, and the same can be used for bidding purposes.
  - ii. purchased from the office as above for a non-refundable fee of Rs 5000, in the form of Demand Draft on any Nationalized /Scheduled bank payable in favour of Project Director at his unit headquarters.
- 3 Interested bidders may obtain further information, if required, from Project Director (concerned).
- 4 Bidder must be registered with Commercial Taxes Department, and must also have a valid PF registration Certificate.
- 5 Bid must be accompanied by security amount specified above, payable in favour of Project Director (Concerned) at his unit headquarters. Bid security shall have to be in any one form as specified in the bidding document and shall have to be valid for 30 days beyond the validity of the bid.
- 6 Bids must be delivered to any address listed above on or before 15:00 hours on dates mentioned above and will be opened at 11:00 hours on dates mentioned above, in the office of the Project Director (Concerned) in the presence of the bidders who wish to attend. If the office happens to be closed on the date of receipt/ opening of the bids as specified, the bids will be received and opened on the next working day at the same time and venue.

- 7 A pre-bid meeting will be held on 13-07-2010 at 11:00 hrs. at the office of Project Director (Concerned) to clarify the issues and to answer questions on any matter that may be raised at that stage, as per Clause 9.2 of 'Instructions to Bidders' of the Bidding documents.
- 8 Any amendment in the IFB shall henceforth be uploaded on website only. Bidders' failure to check the mail & notice the amendments/ modifications/ clarifications issued by the employer shall not be entertained in any way.
- 9 Other details are available in the bidding documents.

**General Manager**

---

**SECTION 1  
INSTRUCTIONS TO BIDDERS (ITB)**

**Table of Clauses**

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

## A. GENERAL

### 1 **Scope of Bid**

- 1.1 The Employer (named in Annexure-1 to ITB) invites bids for the construction of works (as defined in these documents and referred to as the 'work') detailed in the table given in Invitation For Bidders (IFB). The bidders may submit bids for any or all of the works detailed in the table given in IFB.
- 1.2 The successful bidder shall have to complete the works by the Intended Completion Date specified in the Contract Data.
- 1.3 Throughout these bidding documents, the terms 'bid' and 'tender' and their Derivatives (bidder/tender, bid/tender, bidding/ tendering, etc.) are synonymous.

### 2 **Source of Funds**

- 2.1 The expenditure on this project will be met from the budget of RSRDC

### 3 **Eligible Bidders**

- 3.1 This Invitation for Bids is open to all bidders having the required qualification.
- 3.2 All bidders shall provide in Section 2, Forms of Bid and Qualification Information, a statement that the bidder is neither associated, nor has been associated, directly or indirectly, with the Consultant or any other entity that has prepared the design, specifications, and other documents for the Project or being proposed as Project Manager for the Contract. A firm that has been engaged by the Employer to provide consulting services for the preparation or supervision of the works, or any of its affiliates, shall not be eligible to bid.

### 4 **Qualification of the Bidder**

- 4.1 In order to justify their capability of execution and completion of work as per technical specifications, within stipulated period of completion, a bidder shall provide, as stated in Section 2,
  - a. Forms of Bid and Qualification Information,
  - b. proposed work method and schedule
  - c. programme of construction,
  - d. equipment planning and deployment,
  - e. quality assurance procedures and
  - f. drawings and charts
- 4.2 Deleted
- 4.3 A bidder shall include the following information and documents with the bid in Section 2;
  - 4.3.1 copies of original documents defining the constitution or legal status, place of registration, and principal place of business; written power of attorney of the signatory of the Bid to commit the Bidder;
  - 4.3.2 total monetary value of construction work performed for each of the last five years;
  - 4.3.3 experience in works of a similar nature and required size for each of the last five years, and details of works underway or contractually committed; and clients who may be contacted for further information on those contracts;
  - 4.3.4 major items of construction equipment proposed to carry out the Contract;
  - 4.3.5 qualifications and experience of key site management and technical personnel proposed for the Contract;
  - 4.3.6 reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the past five years;
  - 4.3.7 evidence of access to line (s) of credit and availability of other financial resources facilities (10% of contract value), certified by the Bankers (Not more than 3 months old).
  - 4.3.8 authority to seek references from the Bidder's bankers;
  - 4.3.9 information regarding any litigation, current or during the last five years, in which the Bidder is involved, the parties concerned, and disputed amount;
  - 4.3.10 proposals for subcontracting components of the Works amounting to more than 10 per cent of the Bid Price (for each, the qualifications and experience of the identified sub-contractor in the relevant field should be annexed); and
  - 4.3.11 proposed methodology and programme of construction, backed with equipment planning and deployment, duly supported with broad calculations and quality control procedures proposed to be adopted, including fund flow & cash flow planning & statement, justifying

their capability of execution and completion of the work as per technical specifications within the stipulated period of completion as per milestones.

- 4.4 Bids submitted by a Joint Venture (by maximum of two firms as partners) shall comply with the following requirements:
- 4.4.1 the bid shall include all the information listed in clause 4.3 above;
  - 4.4.2 the bid and, in case of a successful bid, the Agreement, shall be signed so as to be legally binding on all partners;
  - 4.4.3 one of the partners shall be nominated as being in-charge or lead partner, and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the partners;
  - 4.4.4 the partner in-charge shall be authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the joint venture and the entire execution of the Contract, including payment, shall be done exclusively with the partner in charge;
  - 4.4.5 all partners of the joint venture shall be liable jointly and severally for the execution of the contract in accordance with the contract terms, and a statement to this effect shall be included in the authorization mentioned under 4.4.3 above, as well as in the bid and in the Agreement (in case of a successful bid);
  - 4.4.6 the joint venture agreement shall be registered so as to be legally valid and binding on partners; and
  - 4.4.7 a copy of the Joint Venture Agreement entered into by the partners shall be submitted with the bid. Alternatively, a Letter of Intent to execute a Joint Venture Agreement in the event of a successful bid shall be signed by all partners and submitted with the bid, together with a copy of the proposed Agreement.
- 4.5 **To qualify for award of the contract**
- 4.5.1 A bidder in its name should have (in the last five years as referred to in Annexure-1):
    - 4.5.1.1 achieved a minimum annual financial turnover (in all classes of civil engineering construction works only) amount indicated in Annexure-1 in any one year;
    - 4.5.1.2 satisfactorily completed, not less than 90% of contract value, at least one similar work of value not less than the amount indicated in Annexure-1,
      - a. as a prime contractor, or
      - b. as a nominated subcontractor (nominated or selected or approved by a Govt. Organisation) where the subcontract involved execution of all main items of work described in the bid document; provided further that all other qualification criteria are satisfied.
  - 4.5.2 A bidder should further demonstrate:
    - 4.5.2.1 availability of either owned or leased following key and critical equipment for this work:

Based on the studies, carried out by the Engineer the minimum suggested major equipment to attain the completion of works in accordance with the prescribed construction schedule are shown in the **Annexure-2**.

The bidders shall, however, undertake their own studies and furnish with their bid, a detailed construction planning and methodology supported with layout and necessary drawings and calculations (detailed) as stated in clause 4.3.11 above to allow the employer to review their proposals. The numbers, types and capacities of each plant/equipment shall be shown in the proposals along with the cycle time for each operation for the given production capacity to match the requirements.
    - 4.5.2.2 availability for this work exclusively of a Project Manager with minimum three years' experience in construction of similar civil engineering works, and other key personnel with adequate experience;
    - 4.5.2.3 liquid assets and/or availability of credit facilities of no less than the amount indicated in Annexure-1  
*(Credit lines/letter of credit certificates from Banks for meeting the funds requirement etc. - usually the equivalent of the estimated cash flow for 3 months in peak construction period. Such letter of credit can be submitted either severally or jointly)*
    - 4.5.2.4 deleted
- 4.6 The figures for each of the partners of a joint venture shall be added together to determine the Bidder's compliance with the minimum qualifying criteria of clause 4.5, except for clause 4.5.1.2, wherein any one of the partner of Joint Venture may have the required qualification.

Sub-contractor's experience and resources will not be taken into account in determining the Bidder's compliance with the qualifying criteria, except to the extent stated in Clause 4.5.1 above.

- 4.7 Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity is more than the total bid value. The available bid capacity will be calculated as under:

**Assessed Available Bid capacity = (A \*N\*2 - B)**

Where

A = Maximum value of civil engineering works executed in anyone year during the last five years (updated to the price level of the year indicated in Annexure-1) taking into account the completed as well as works in progress.

N = Number of years prescribed for completion of the works for which bids are invited.

B = Value (updated to the price level of the year indicated in Annexure-1) of existing commitments and on-going works to be completed during the next N years (period of completion of the works for which bids are invited)

Note: *The statements showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Engineer in charge, not below the rank of an Executive Engineer or equivalent.*

- 4.8 Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:
- 4.8.1 made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or
- 4.8.2 record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion; litigation history, or financial failures etc.; and/or
- 4.8.3 participated in the previous bidding for the same work and had quoted unreasonably high bid prices and could not furnish rational justification to the employer.

**5 One Bid per Bidder**

- 5.1 Each bidder shall submit only one bid for one package either individually or as a partner in a Joint Venture. A bidder who submits or participates in more than one Bid (other than as a subcontractor or in cases of alternatives that have been permitted or requested by the Employer) will cause all the proposals with the Bidder's participation to be disqualified.

**6 Cost of Bidding**

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

**7 Site Visit**

- 7.1 The Bidder, at his own responsibility, risk, and cost 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 construction of the works. The costs of visiting the site shall be at their own.

**B. BIDDING DOCUMENTS**

**8 Content of Bidding Documents**

- 8.1 The set of bidding documents comprises the documents listed in table shown below and addenda issued, if any, in accordance with Clause 10:

<b>Section</b>	<b>Particulars</b>
	Invitation for Bids
	<b>Volume 1</b>
1	Instructions to Bidders
2	Qualification Information, and other forms
3	Conditions of Contract
4	Contract Data
	<b>Volume 2</b>
5	Technical Specifications
	<b>Volume 3</b>
6	Form of bid

7	Bill of Quantities
8	Securities and other forms
	<b>Volume 4</b>
9	Drawings
	<b>Volume 5</b>
10	Documents to be furnished by bidder (Clause 12)

8.2 Three copies of each of the volumes 1 to 4 will be issued to the bidder. Documents to be furnished by the bidder in compliance to section 2 will be prepared by him and furnished as Volume 5 in two parts (refer Clause 12).

8.3 The bidder is expected to examine carefully all instructions, conditions of contract, Contract Data, forms, terms, and technical specifications, bill of quantities, forms, Annexes and drawings in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. Pursuant to clause 26, bids which are not substantially responsive to the requirements of the Bid Documents shall be rejected.

**9 Clarification of Bidding Documents**

9.1 A bidder requiring any clarification of the bidding documents may notify the Employer in writing at the Employer's address indicated in the invitation to bid. The Employer will respond to a request for clarification which he received earlier than 15 days prior to the deadline for submission of bids. The description of the enquiry, without identifying its source, and Employer's response will be placed on the website [www.rsrdc.com](http://www.rsrdc.com). Any amendment made by the employer at his own in the bid documents will be placed on the website. Bidders are requested to check the website regularly and inform the employer in case of any discrepancy noticed. Bidders' failure to check the mail and to notice the amendments/ modifications/ clarifications issued by the employer shall not be entertained in any way.

**9.2 Pre-bid meeting**

9.2.1 The bidder or his official representative is invited to attend pre-bid meeting at the address, venue, time and date as indicated in Annexure-1.

9.2.2 The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.

9.2.3 The bidder may submit questions in writing to reach the Employer not later than one week before the meeting.

9.2.4 Minutes of the meeting, including the text of the questions raised (without identifying the source of enquiry) and the responses given will be placed on the website [www.rsrdc.com](http://www.rsrdc.com). Any modification of the bidding documents listed in Clause 8.1 which may become necessary as a result of the pre-bid meeting will be made by the Employer through the issue of an Addendum pursuant to Clause 10 and placed on the website, and not through the minutes of the pre-bid meeting.

9.2.5 Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

**10 Amendment of Bidding Documents**

10.1 Before the deadline for submission of bids, the Employer may modify the bidding documents by issuing addenda.

10.2 Any addendum thus issued shall be part of the bidding documents and shall be placed on the official website of RSRDC. The information placed on the website shall be deemed to have been communicated to all bidders, including the ones who have purchased the bid. Prospective bidders are therefore advised to visit the official website regularly till the deadline for submission of the bid.

10.3 To give prospective bidders reasonable time to take note of the addendum in preparing their bids, the Employer may, at his discretion, extend the deadline for submission of bids, as per Clause 20.2.

**C. PREPARATION OF BIDS**

**11 Language of the Bid**

11.1 All documents relating to the bid shall be in the Hindi/ English language.

12 **Documents Comprising the Bid**

12.1 The bid to be submitted by the bidder as Volume 5 of the bid document (refer Clause 8.1) shall be in three separate parts:

12.1.1 **Part I shall be named 'Bid Security' and shall comprise of:**

- a. Bid Security, for the amount & validity as specified in IFB, in the form specified in Section 8
- b. PF registration certificate.
- c. Latest Sales Tax Clearance Certificate

12.1.2 **Part II shall be named 'Technical Bid' and shall comprise :**

- a. Qualification Information and supporting documents as specified in Section 2
- b. Certificates, undertakings, affidavits as specified in Section 2
- c. Undertaking that the bid shall remain valid for the period specified in Clause 15.1

12.1.3 **Part III shall be named 'Financial Bid' and shall comprise :**

- a. Form of Bid as specified in Section 6
- b. Priced Bill of Quantities for items specified in Section 7
- c. Rate Analysis in support of rate quoted

12.2 Each part will be separately sealed and marked in accordance with the Sealing and Marking Instructions in Clause 19.

12.3 The bidder shall prepare two copies of the bid, mark them as 'Original' and 'Copy' respectively.

12.4 Following documents, if not submitted with the bid, shall be deemed to be part of the bid.

<b>S. No.</b>	<b>Documents</b>
1	Invitation for Bids (IFB)
2	Instructions to Bidders
3	Conditions of Contract
4	Contract Data
5	Specifications
6	Drawings

13 **Bid Prices**

13.1 The contract shall be for the whole work as per Clause 1.1, based on the priced Bill of Quantities submitted by the Bidder.

13.2 The bidder shall fill percentage rate above and below or at par in case of items detailed in schedule G and shall quote individual rates for all items shown in schedule H of the Works described in the Bill of Quantities (both in figures and words) along with total bid price (both in figures and words). Corrections, if any, shall be made by crossing out, rewriting, initialing, and dating.

13.3 All duties, taxes, and other levies payable by the contractor under the contract, or for any other cause shall be included in the rates, prices and total Bid Price submitted by the Bidder.

13.4 The rates and prices quoted by the bidder are subject to adjustment for the price of Bitumen, Steel and Cement during the performance of the Contract as per Clause 47 of the Conditions of Contract.

14 **Currencies of Bid and Payment**

14.1 The unit rates and the prices shall be quoted by the bidder entirely in Indian National Rupee. All payments shall be made in Indian National Rupee.

15 **Bid Validity**

15.1 Bids shall remain valid for a period not less than 120 days after the deadline date for bid submission specified in Clause 20. A bid valid for a shorter period shall be rejected by the Employer as non-responsive. In case of discrepancy in bid validity period between that given in the undertaking pursuant to Clause 12.1.2 (c) and the Form of Bid submitted by the bidder, the latter shall be deemed to stand corrected in accordance with the former and the bidder has to provide for additional validity.

15.2 In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the bidders may extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing. A bidder may refuse the request without forfeiture of his bid security.

15.3 Deleted

- 15.4 Deleted
- 16 **Bid Security**
- 16.1 The Bidder shall furnish, as part of his Bid, a Bid security for the amount shown in IFB for this particular work, in favour of Project Director (Concerned), and may be in one of the following forms:
- a. Bank Guarantee from any Nationalised/Scheduled Indian bank, in the format given in Volume 3.
  - b. Fixed Deposit Receipt, issued by any Nationalised/Scheduled Indian Bank.
  - c. Demand Draft.
- 16.2 Bank guarantees (and other instruments having fixed validity) issued as surety for the bid shall be valid for 30 days beyond the validity of the bid.
- 16.3 Any bid not accompanied by an acceptable Bid Security and not secured as per Clauses 16.1 and 16.2 shall be rejected by the Employer as non-responsive.
- 16.4 The Bid Security of unsuccessful bidders will be returned within 28 days of issue of letter of acceptance to the successful bidder, or at the end of bid validity period as per Clause 15.1, whichever is earlier.
- 16.5 The Bid Security of the successful bidder will be discharged when the bidder has signed the Agreement and furnished the required Performance Security.
- 16.6 The Bid Security may be forfeited
- 16.6.1 if the Bidder withdraws the Bid after Bid opening during the period of Bid validity;
  - 16.6.2 if the Bidder does not accept the correction of the Bid Price, pursuant to Clause 27; or in the case of a successful Bidder, if the Bidder fails within the specified time limit to
    - (i) sign the Agreement; or
    - (ii) furnish the required Performance Security.
- 17 **Alternative Proposals by Bidders**
- 17.1 Bidders shall submit offers that comply with the requirements of the bidding documents, including the basic technical design as indicated in the drawing and specifications. Alternatives shall not be considered.
- 18 **Format and Signing of Bid**
- 18.1 The Bidder shall prepare one original and one copy of the documents comprising the bid as described in Clause 12 of these *Instructions to Bidders*. Original documents shall be placed in three separate envelopes namely 'Bid Security', 'Technical Bid' and 'Financial Bid' and then placed in one envelope clearly marked as '**ORIGINAL**'. Similarly, another set shall be marked as '**COPY**'. In the event of discrepancy between them, the original shall prevail.
- 18.2 The original and copy of the Bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder, pursuant to Clauses 4.3. All pages of the bid where entries or amendments have been made shall be initialed by the person or persons signing the bid.
- 18.3 The Bid shall contain no alterations or additions, except those to comply with instructions issued by the Employer, or as necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person or persons signing the bid.
- D. SUBMISSION OF BIDS**
- 19 **Sealing and Marking of Bids**
- 19.1 The bid shall be prepared in two copies marked as '**ORIGINAL**' and '**COPY**'.
- 19.2 Each copy shall comprise of 'inner envelope' and 'separate envelope'.
- 19.3 The separate envelopes shall comprise of two sets of three envelopes each prepared as explained in clause 18.1.
- 19.4 Each set of the separate envelope marked '**ORIGINAL**' and '**COPY**' shall be with additional markings as follows
- 'Bid Security' and 'Technical Bid':  
'To be opened on **27-09-2010** (date of Technical Bid opening) in the presence of Bid Opening Committee'.
- Financial Bid:  
'Not to be opened except with the approval of Evaluation Committee'.
- 19.5 The inner, outer, and separate envelopes containing Bid Security, Technical and Financial Bids etc shall
- a be addressed to the Project Director (concerned) at the address given in Annexure 1.

- b bear the identification as indicated in Annexure 1.
- 19.6 In addition to the identification required in Clauses 19.4 and 19.5, each of the envelopes shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared late, pursuant to Clause 21, or the Evaluation Committee declares the bid as non-responsive pursuant to Clause 23.
- 19.7 Each set of separate envelope shall be placed in the respective inner envelope i.e. 'ORIGINAL' and 'COPY' and sealed.
- 19.8 Both inner envelope marked 'ORIGINAL' and 'COPY' shall than be placed and sealed in one outer envelope.
- 19.9 If the outer envelope is not sealed and marked as above, the Employer will assume no responsibility for the misplacement or premature opening of the bid.

**20 Deadline for Submission of the Bids**

- 20.1 Complete Bids (including Technical and Financial) must be received by the Employer at the address specified above not later than the date and time indicated in Annexure-1. 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.
- 20.2 The Employer may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will then be subject to the new deadline.

**21 Late Bids**

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

**22 Modification and Withdrawal of Bids**

- 22.1 Bidders may modify or withdraw their bids by giving notice in writing before the deadline prescribed in Clause 20 or pursuant to Clause 23.
- 22.2 Each Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and delivered in accordance with Clause 18 and 19, with the outer and inner envelopes additionally marked '**MODIFICATION**' or '**WITHDRAWAL**', as appropriate.
- 22.3 No bid may be modified after the deadline for submission of Bids except in pursuance of Clause 23.
- 22.4 Withdrawal or modification of a Bid between the deadline for submission of bids and the expiration of the original period of bid validity specified in Clause 15.1 or as extended pursuant to Clause 15.2 may result in the forfeiture of the Bid security pursuant to Clause 16.

**E. BID OPENING AND EVALUATION**

**23 Bid Opening**

- 23.1 The Employer will open all the Bids received (except those received late), including modifications made pursuant to Clause 22, in the presence of the Bidders or their representatives who choose to attend at time, date and place specified in Annexure-1 in the manner specified in Clause 20 and 23.3. In the event of the specified date of Bid opening being declared a holiday for the Employer, the Bids will be opened at the appointed time and location on the next working day.
- 23.2 First of all, the envelopes marked '**WITHDRAWAL**' shall be opened and read out. Bids for which an acceptable notice of withdrawal has been submitted pursuant to Clause 22 shall not be opened.
- 23.3 Subsequently, the envelope containing 'Bid Security' shall be opened. The contents of the envelope shall be verified with respect to clause 12.1.1. In the event of non-confirmation of the information specified in clause 12.1.1, the bid shall be considered as non-responsive and the sealed Technical Bid and the sealed Financial Bid will be returned to the bidder.
- 23.4 Thereafter, the envelope containing technical bid of remaining bidders declared in accordance with clause 23.3 shall be opened. However, validity of opening of technical bid shall be subject to confirmation of the bid security by the issuing Bank. The bids accompanied with valid bid security will be taken up for evaluation with respect to the Qualification Information and other information furnished in Part II of the bid pursuant to Clause 12.1.
- 23.5 At the time of opening of 'Financial Bid', the names of the bidders found technically qualified in accordance with Clause 26.3 will be announced. The bids of only these bidders will be opened along with their envelope of '**MODIFICATION TO FINANCIAL BID**'. The

remaining bids will be returned to the bidders unopened. The responsive Bidders' names, Bid prices, total amount of each bid, any discounts, Bid Modifications and withdrawals, and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening. Any Bid price or discount, which is not read out and recorded, will not be taken into account in Bid Evaluation.

23.6 The order of opening of the 'Financial Bid' at a place shall be that in which they appear in the 'Invitation For Bid'.

23.7 The Employer shall prepare Statement of the Bid opening, including the information disclosed to those present in accordance with Clause 23.5.

#### 24 **Process to be Confidential**

24.1 Information relating to the examination, clarification, evaluation, and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process until the award to the successful Bidder has been announced. Any effort by a Bidder to influence the Employer's processing of Bids or award decisions may result in the rejection of his Bid.

#### 25 **Clarification of Financial Bids**

25.1 To assist in the examination, evaluation, and comparison of Bids, the Employer may, at his discretion, ask any Bidder for clarification of his Bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing, 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.

25.2 Subject to clause 25.1, no Bidder shall contact the Employer on any matter relating to his bid from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Employer, he should do so in writing.

25.3 Any effort by the Bidder to influence the Employer in the Employer's bid evaluation, bid comparison or contract award decisions may result in the rejection of the bid.

#### 26 **Examination of Bids**

26.1 **For Determination of Responsiveness :** The bid shall be considered responsive if:

26.1.1 The contents of the envelope confirms to clause 12.1.1.

26.1.2 The Bid Security is confirmed by the respective Bank.

26.1.3 All pages of the technical bid have been properly signed by the authorized representative.

26.2 **For Determination of Technical Qualification:**

26.2.1 During the detailed evaluation of 'Technical Bids', the Employer will determine whether each Bid meets the eligibility criteria defined in Clause 3 and 4. However, following additional steps may be taken by the evaluation committee;

a. After receipt of confirmation of the bid security, the bidder will be asked in writing (usually within 10 days of opening of the Technical Bid) to clarify or modify his technical bid, if necessary, with respect to any rectifiable defects.

b. The bidder will respond in not more than 7 days of issue of the clarification letter, which will also indicate the date, time and venue of opening of the Financial Bid (usually on the 21st day of opening of the Technical Bid)

26.2.2 Immediately (usually within 3 or 4 days), on receipt of these clarifications the Evaluation Committee will finalize the list of responsive bidders whose financial bids are eligible for consideration.

26.2 A substantially responsive 'Financial Bid' is one which conforms to all the terms, conditions, and specifications of the Bidding documents, without material deviation or reservation. A material deviation or reservation is one

(a) which affects in any substantial way the scope, quality, or performance of the Works;

(b) which limits in any substantial way, inconsistent with the Bidding documents, the Employer's rights or the Bidder's obligations under the Contract; or

(c) whose rectification would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.

26.3 If a 'Financial 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.

#### 27 **Correction of Errors**

- 27.1 'Financial Bids' determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:
- a. where there is a discrepancy between the rates in figures and in words, the rate in words will govern; and
  - b. where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.
- 27.2 The amount stated in the 'Financial Bid' will be corrected by the Employer in accordance with the above procedure and the bid amount adjusted with the concurrence of the Bidder in the following manner:
- a. If the Bid price increases as a result of these corrections, the amount as stated in the bid will be the 'bid price' and the increase will be treated as rebate;
  - b. If the bid price decreases as a result of the corrections, the decreased amount will be treated as the 'bid price'.
- Such adjusted bid price shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount the Bid shall be rejected, and the Bid security shall be forfeited in accordance with Clause 16.2.

28 Deleted

29 **Evaluation and Comparison of Financial Bids**

- 29.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause 26.
- 29.2 In evaluating the Bids, the Employer will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:
- a making any correction for errors pursuant to Clause 27; or
  - b making an appropriate adjustments for any other acceptable variations, deviations; and
  - c making appropriate adjustments to reflect discounts or other price modifications offered in accordance with Clause 23.6.
- 29.3 The Employer reserves the right to accept or reject any variation or deviation. Variations and deviations and other factors, which are in excess of the requirements of the Bidding documents or otherwise result in unsolicited benefits for the Employer, shall not be taken into account in Bid evaluation.
- 29.4 **Unbalanced Bid:** If the Bid amount of the successful Bidder is lower than the Engineer's Cost (EC) of the work to be performed under the contract, then the bid shall be treated as 'unbalanced bid', and the bid amount minus EC shall be considered as unbalanced amount. In case of unbalanced bid, an 'additional performance security' equal to the unbalanced amount shall be submitted by such successful bidder.

Example:

Rs. crore

	Project cost	Engineer's estimate	Bid amount	Unbalanced amount or Additional Performance Security
1	100	100	85	15
2	100	90	85	5
3	100	90	80	10

- 29.5 Bidder will have to produce detailed rate analyses with justification in support of rate quoted by them.
- To facilitate the bidder, Engineer shall declare and place on website EC, 72 Hrs before the time of submission of bid, failing which the amount mentioned in IFB shall be considered as EC under the Contract.

30 Deleted

**F. AWARD OF CONTRACT**

31 **Award Criteria**

- 31.1 Subject to Clause 32, the Employer will award the Contract to the Bidder whose Bid has been determined
- i to be substantially qualified in accordance with the requirement of the Bidding documents and who has offered the lowest evaluated Bid Price; and
  - ii to be within the available bid capacity adjusted to account for his bid price which is evaluated the lowest in any of the packages opened earlier than the one under consideration.

In no case, the contract shall be awarded to any bidder whose available bid capacity is less than the evaluated bid price, even if the said bid is the lowest evaluated bid. Thereafter, the next lowest bidder shall be examined on similar conditions for award of contract.

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

32.1 Notwithstanding Clause 31, the Employer reserves the right to accept or reject any Bid, and to cancel the Bidding process and reject all Bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Employer's action.

**33 Notification of Award and Signing of Agreement**

33.1 The Bidder whose Bid has been accepted will be notified of the award by the Employer prior to expiration of the Bid validity period in writing (hereinafter and in the *Conditions of Contract* called the 'Letter of Acceptance') stating 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').

33.2 The notification of award will constitute the formation of the Contract, subject only to the furnishing of a performance security as per Clause 34.

33.3 The Agreement will incorporate all agreements between the Employer and the successful Bidder. The original agreement along with one copy duly wetted by the Employer shall be signed and submitted by the successful bidder within 15 days following the notification of award along with the Letter of Acceptance. Within 21 days of receipt, the Employer will sign the Agreement and deliver a copy to the Bidder.

33.4 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.

**34 Performance Security**

34.1 Within 15 days of receipt of the Letter of Acceptance, the successful Bidder shall deliver to the Employer, in any one of the forms given below a Performance Security for an amount equivalent to 5% of the Contract price, and 'additional performance security' for unbalanced Bid as per Clause 29.4 of ITB and Clause 52 of Conditions of Contract:

- a. Bank Guarantee in the form given in Section 8; or
- b. Bank Draft as indicated in Annexure-1.

34.2 If any of the performance security is provided by the successful Bidder in the form of a Bank Guarantee, it shall be issued by a Nationalized Scheduled Indian bank.

The performance security and additional performance security of a Joint Venture shall be in the name of either partner severally or jointly in the name of the Joint Venture.

34.3 Failure of the successful Bidder to comply with the requirements of Clause 34.1 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Bid Security.

35 Deleted

36 Deleted

**37 Corrupt or Fraudulent Practices**

37.1 The Employer will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for, or in execution of the contract in question, and will declare the firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract with RSRDC.

37.2 Furthermore, Bidders shall be aware of the provision of Clause 23.2 and Clause 59.2 of the Conditions of Contract.

**Annexure-1**  
**Clause Reference w.r.t. Section-I**

S. No.	Clause		
1	1.1	Name of the Employer	Managing Director, RSRDC, Jhalana Doongri, Jaipur, Rajasthan, India 302 004
2	4.5.1	The last five years	2009 -2010 2008 -2009 2007 -2008 2006 -2007 2005 -2006
3	4.5.1.1	The Annual Financial turnover amount	Rs. 32 crore Thirty Two Crores.
4	4.5.1.2	Value of Work	Rs. 8.00 Crores (in words) Eight Crores.
5	4.5.2.3	Liquid assets and/or availability of credit facilities	Rs. 9.60 Crores Nine Crores Sixty Lakhs
6	4.7	Price level of the financial year	2009-10
7	9.2.1	Pre-bid meeting will take place at :	Venue and address Project Director, Unit Udaipur 137, Navratan Complex Bedla Road Fatehpura, Udaipur Date 13-09-2010 Time 11am
8	19.4	The technical bid will be opened	Project Director, Unit Udaipur 137, Navratan Complex Bedla Road Fatehpura, Udaipur on 27-09-2010 Time 11 am.
9	19.5(a)	Address of the Project Director	<i>as above</i>
10		Identification of bid	- Bid for - DEVELOPMENT OF BANSWARA-RATLAM ROAD (SH-10) FROM KM. 125/0 TO 140/0  - Bid Reference No. – 466/2010-11 (S.N.5) - Do not open before <b>27-09-2010</b> Time 11am
11		Bid to be submitted by	Date 23-09-2010 Time 3 pm
12	23.1	Bid will be opened at	Place Udaipur Time 11 am. Date 27-09-2010.
13	34.1	The Bank Draft in favor of payable at	Project Director, RSRDC Unit Udaipur. Udaipur
14		Escalation factors (for the cost of works executed and financial figure to a common base value for works completed)	
		<b>Year before</b> 2009-10	<b>Multiply factor</b> 1.00
		One	1.10

Two	1.21
Three	1.33
Four	1.46

### Key Plant & Equipment to be deployed on Contract Work

[Reference Cl. 4.5 .2.1]

S. No.	Item	Minimum Nos.*			Source (Owned/Leased)
		Building work	Road Work	Bridge work/ ROB	
1	Motor Grader	-	1	1	Owned/Leased
2	Batch Mix Plant (Bitumen) / or		1		Owned/Leased
3	Drum mix plant (40- 100 TPH) capacity				Owned
4	Paver finisher with Electric Sensor		1		Owned
5	JCB				Owned
6	Batch Mix Plant(Concrete)	1		1	Owned/Leased
7	Material lifting Elevator	1		1	Owned
8	Plate/Needle vibrators	2		2	Owned
9	Steel Plate shuttering				Owned/Leased
10	Steel jacks & tie bars				Owned/Leased
11	Adjustable rafters				Owned/Leased
12	Pipe Scaffolding				Owned
13	Mortar mixing machine (with Hopper)	1		1	Owned
14	Other:				

\* the requirement should be defined as per project specific requirements

## SECTION 2

### QUALIFICATION INFORMATION

The information to be filled in by the Bidder in the following pages will be used for purposes of post qualification as per Clause 4 of the Instructions to Bidders. This information will not be incorporated in the Contract.

**1 For Individual Bidder**

**1.1 Construction or legal status**

*[Attach copy]*

Place of registration: \_\_\_\_\_

Principal place of business: \_\_\_\_\_

Power of attorney of signatory of Bid

*[Attach]*

- 1.2 Total value of work performed in the last five years\***
- |           |
|-----------|
| 2009-2010 |
| 2008-2009 |
| 2007-2008 |
| 2006-2007 |
| 2005-2006 |
- (in Rs. Lac)

- 1.3 Work performed as prime contractor, work performed in the past as a nominated sub-contractor will also be considered provided the sub-contract involved execution of all main items of work described in the bid document, provided further that all other qualification criteria are satisfied (in the same name) on works of a similar nature over the last five years. \*\***

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

*\* Attach certificate(s) from the Engineer (s) -in-Charge*

*\*\* immediately preceding the financial year in which bids are received.*

*B Attach certificate from Chartered Accountant*

- 1.4 Information on Bid Capacity (works for which bids have been submitted and works which are yet to be completed) as on the date of this bid.**

**(A) Existing commitments and on-going works:**

Description of works	Place & State	Contract No.	Name & Address of Employer	Value of Contract (Rs Cr)	Stipulated Period of Completion	Value of works* remaining to be completed (Rs Cr)	Anticipated date of completion
1	2	3	4	5	6	7	8

*\* Attach certificate(s) from the Engineer (s) -in-Charge*

*\*\* immediately preceding the financial year in which bids are received.*

(B) Works for which bids already submitted

Description of works	Place & State	Name & Address of Employer	Estimated value of works (Rs Cr)	Stipulated period of completion	Date when decision is expected	Remarks, if any
1	2	3	4	6	6	7

1.5 Availability of key items of Contractor's Equipment essential for carrying out the Works [Ref. Clause 4.5.2.1]. The Bidder should list all the information requested below. Refer also to Sub Clause 4.3 .4 of the Instructions to Bidders.

Item of Equipment	Requirement		Availability proposals			Remarks (from whom to be purchased)
	No.	Capacity	Owned/ Leased to be procured	Nos./ Capacity	Age/ Condition	

1.6 Qualifications and experience of key personnel required for administration and execution of the Contract [Ref. Clause 4.5.2.2]. Attach biographical data. Refer also to Sub Clause 4.3 .5 of instructions to Bidders and Sub Clause 9.1 of the Conditions of Contract.

Position	Name	Qualification	Year of Experience (General)	Years of experience in the proposed position
Project Manager				

1.7 Proposed sub-contracts and firms involved. [Refer ITB Clause 4.3 .10]

Sanctions of the works	Value of Sub-contract	Sub-contractor (Name & Address)	Experience in similar work

- 1.8 Financial reports for the last five years: balance sheets, profit and loss statements, auditors' reports (in case of companies/corporation), etc. List them below and attach copies.
- 1.9 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. List them below and attach copies of support documents
- 1.10 Name, address, and telephone, telex, and fax numbers of the Bidders' bankers who may provide references if contacted by the Employer.
- 1.11 Information on litigation history in which the Bidder is involved.

Other Party(ies)	Employer	Cause of Dispute	Amount involved	Remarks showing present Status

1.12 Statement of compliance under the requirements of Sub Clause 3.2 of the instructions to Bidders.(Name of Consultant engaged for project preparation is **M/s Caritas Infra Consulting Ltd.**

1.13 Proposed work method and schedule. The Bidder should attach descriptions, drawings and charts as necessary to comply with the requirements of the Bidding documents.(refer ITB Clause 4.1 & 4.3.11 )

1.14 Programme

1.15 Quality Assurance Programme

## 2 **Joint Ventures**

2.1 The information listed in 1.1-1.12 above shall be provided for each partner of the joint venture.

2.2 The information in 1.13 above shall be provided for the joint venture.

2.3 Attach the power of attorney of the signatory [ies] of the bid authorizing signature of the bid on behalf of the joint venture.

2.4 Attach the agreement among partners of the joint venture [and which is legally binding on partners], which shows the requirements as indicated in clause 4.4 of the Instructions to Bidders'. Alternatively, a Letter of Intent to execute a Joint Venture Agreement in the event of a successful bid shall be signed by all partners and submitted with the bid, together with a copy of the proposed Agreement

## 3 **Additional Requirements**

3.1 Bidders should provide any additional information required to fulfill the requirements of Clause 4 of Instructions to Bidders, if applicable.

i Affidavit

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

(CLAUSE 4.5 .2.3 OF ITB)

BANK CRETIFICATE

This is to certify that M/s. \_\_\_\_\_ is a reputed  
Company with a good financial standing.

If the contract for work, namely \_\_\_\_\_ is  
awarded to the above firm, we shall be able to provide overdraft/credit facilities to the  
extent of Rs. \_\_\_\_\_ to meet their working capital requirements  
for executing the above contract during the contract period.

(Signature)  
Name of Bank  
Senior Bank Manager  
Address of the Bank

AFFIDAVIT

- 1 I the undersigned do hereby certify that all the statements made in the required attachments are true and correct.
- 2 The undersigned also hereby certifies that neither our firm M/s. \_\_\_\_\_ have abandoned any work in RSRDC nor any contract awarded to us for such work have been rescinded, during last years prior to the date of this bid.
- 3 The undersigned hereby authorize(s) and request(s) any bank, person, firm or corporation to furnish pertinent information deemed necessary and requested by the RSRDC to verify this statement or regarding my (our) competence and general reputation.
- 4 The undersigned understand and agrees that further qualifying information may be requested, and agrees to furnish any such information at the request of the Department/Project implementing agency.

(Signed by an Authorised Officer of the Firm)

\_\_\_\_\_  
Title of Officer

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
DATE

<b>SECTION 3</b>		
<b><u>CONDITIONS OF CONTRACT</u></b>		
<b>Table of Contents</b>		Page No.
<b>A.</b>	<b>General</b>	25-29
1	Definitions	25
2	Interpretation	26
3	Language and Law	26
4	Engineer's Decisions	26
5	Delegation	26
6	Communications	26
7	Sub-contracting	26
8	Other Contractors	27
9	Personnel	27
10	Employer's & Contractor's Risks	27
11	Employer's Risks	27
12	Contractor's Risks	27
13	Insurance	27
14	Site Investigation Reports	27
15	Queries about the Contract Data	28
16	Contractor to Construct the Works	28
17	The Works to be Completed by the Intended Completion Date	28
18	Approval by the Engineer	28
19	Safety	28
20	Discoveries	28
21	Possession of the Site	28
22	Access to the Site	28
23	Instructions	28
24	Dispute Redressal System	28
25	Arbitration	29
26	Deleted	29
<b>B</b>	<b>Time Control</b>	29-30
27	Programme	29
28	Extension of the Intended Completion Date	29
29	Deleted	30
30	Delays Ordered by the Engineer	30
31	Management Meetings	30
32	Early Warning	30
<b>C</b>	<b>Quality Control</b>	30-31
33	Identifying Defects	30
34	Tests	30
35	Correction of Defects	30
36	Uncorrected Defects	31
<b>D</b>	<b>Cost Control</b>	31-35
37	Bill of Quantities	31
38	Changes in the quantities	31
39	Variations	32
40	Deleted	32
41	Cash Flow Forecasts	32
42	Payment Certificates	32
43	Payments	33
44	Compensation Events	33
45	Tax	33

46	Currencies	33
47	Price Adjustment	34
48	Retention	34
49	Liquidated Damages	34
50	Deleted	35
51	Advance Payment	35
52	Securities	35
53	Deleted	35
54	Cost of Repairs	35
<b>E</b>	<b>Finishing the Contract</b>	<b>35-36</b>
55	Completion	35
56	Taking Over	35
57	Final Account	35
58	Operating and Maintenance Manuals	35
59	Termination	35
60	Payment upon Termination	36
61	Property	36
62	Release from Performance	36
<b>F</b>	<b>Special Conditions of Contract</b>	<b>37-39</b>

# CONDITIONS OF CONTRACT

## A. GENERAL

### 1 Definitions

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

SN	Term	
1	<b>Bill of Quantities</b>	Bill of Quantities as specified in schedule G and H of the bid document duly priced and approved by the employer.
2	<b>Compensation Event</b>	As defined in Clause 44.
3	<b>Completion Date</b>	Date of completion of the Works as certified by the Engineer as per Clause 55.1
4	<b>Contract</b>	The contract between the Employer and the Contractor to execute, complete and maintain the subjected Works. It consists of the documents listed in Clause 2.3.
5	<b>Contract Data</b>	The documents and other information which comprise the Contract.
6	<b>Contractor</b>	A person or corporate body whose Bid to carry out the Works has been accepted by the Employer
7	<b>Contractor's Bid</b>	The completed Bidding document submitted by the Contractor to the Employer and includes Technical and Financial bids.
8	<b>Contract Price</b>	The price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.
9	<b>Days</b>	Calendar days; months are calendar months.
10	<b>Defect</b>	Any part of the Works not completed in accordance with the Contract
11	<b>Defects Liability Period</b>	The period specified in the Contract Data and calculated from the Completion Date.
12	<b>Employer</b>	The Managing Director, RSRDC, who will employ the Contractor to carry out the Works.
14	<b>Engineer</b>	The person named in the Contract Data (or any other competent person appointed by employer and notified to the contractor to act in replacement of the Engineer) who is responsible for supervising the Contractor, administering the Contract, certifying payments due to the Contractor, issuing and valuing Variations to the Contract, awarding extensions of time, and valuing the Compensation Events.
15	<b>Equipment</b>	The Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.
16	<b>Initial Contract Price</b>	The Contract Price listed in the Employer's Letter of Acceptance.
17	<b>Intended Completion Date</b>	The date on which it is intended that the Contractor shall complete the Works as specified in the Contract Data. The Intended Completion Date may be revised only by the Engineer by issuing an extension of time.
18	<b>Materials</b>	All supplies, including consumables, used by the contractor for incorporation in the Works.
19	<b>Plant</b>	Any integral part of the Works which is to have a mechanical, electrical, electronic, chemical, or biological function
20	<b>Site</b>	The area defined as such in the Contract Data
21	<b>Site Investigation Reports</b>	Those which were included in the Bidding documents and are factual interpretative reports about the surface and sub-surface conditions at the site.
22	<b>Specification</b>	The Specification of the Works included in the Contract and any

- modification or addition made or approved by the Engineer.
- 23 **Start Date** The date when the Contractor shall commence execution of the works as per Contract Data. It does not necessarily coincide with any of the Site Possession Dates.
- 24 **Subcontractor** A person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract which includes work on the Site.
- 25 **Temporary Works** Works designed, constructed, installed, and removed by the Contractor which are needed for construction or installation of the Works.
- 26 **Variation** An instruction given by the Engineer, which varies the Works.
- 27 **Works** What the Contract requires the Contractor to construct, install, and turnover to the Employer, as defined in the Contract Data.

## 2 **Interpretation**

- 2.1 In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Engineer will provide instructions clarifying queries about the Conditions of Contract.
- 2.2 If sectional completion is specified in the Contract Data, references 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 Acceptance/notice to proceed with the works
  - c. Contractor's Bid
  - d. Contract Data
  - e. Conditions of Contract including Special Conditions of Contract
  - f. Specifications
  - g. Drawings
  - h. Bill of Quantities and
  - i. any other document listed in the Contract Data as forming part of the Contract

## 3 **Language and Law**

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

## 4 **Engineer's Decisions**

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

## 5 **Delegation**

- 5.1 The Engineer may delegate any of his duties and responsibilities to other people after notifying the Contractor and may cancel any delegation after notifying the Contractor.

## 6 **Communications**

- 6.1 Communications between parties which are referred to in the conditions are effective only when in writing.

## 7 **Sub-contracting**

- 7.1 The Contractor may sub-contract any portion of work, upto a limit specified in Contract Data, with the approval of the Engineer but may not assign the Contract without the approval of the Employer in writing. Sub-contracting does not alter the Contractor's obligations. Sub contractors shall have to be got approved from employer after submitting credentials.

## 8 **Other Contractors**

- 8.1 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of other Contractors. The Contractor shall as referred to in the Contract Data, also provide facilities and services for

them as described in the Schedule. The employer may modify the schedule of other contractors and shall notify the contractor of any such modification.

**9 Personnel**

9.1 The Contractor shall employ the key personnel named in the Schedule of Key Personnel as referred to in the Contract Data to carry out the functions stated in the Schedule or other personnel approved by the Engineer. The Engineer will approve any proposed replacement of key personnel only if their qualifications, abilities, and relevant experience are substantially equal to or better than those of the personnel listed in the Schedule.

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 the reasons the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.

**10 Employer's and Contractor's Risks**

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

**11 Employer's Risks**

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

**12 Contractor's Risks**

12.1 All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks 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 which are due to the Contractor's risks:

- a. loss of or damage to the 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; and
- d. personal injury or death.

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 types and proportions of currencies required to rectify the loss or damage incurred.

13.3 If the Contractor does not provide any of the policies and certificates required, the Employer may affect the insurance which the Contractor should have provided and recover the premiums the Employer has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due.

13.4 Alterations to the terms of insurance shall not be made without the approval of the Employer.

13.5 Both parties shall comply with any conditions of the insurance policies.

**14 Site Investigation Reports**

14.1 The Contractor, in preparing the Bid, shall rely on any site Investigation Reports referred to in the Contract Data, supplemented by any information available to the Bidder. However, bidders are advised to verify the details at their own level. The Employer will have no responsibility in case any discrepancy is observed.

**15 Queries about the Contract Data**

15.1 The Engineer will clarify queries on the Contract Data.

**16 Contractor to Construct the Works**

16.1 The Contractor shall construct and install the Works in accordance with the Specification and Drawings

**17 The Works to be Completed by the Intended Completion Date**

17.1 The Contractor may commence execution of the Works on the Start Date and shall carry out

the Works in accordance with the programme submitted by the Contractor, as updated with the approval of the Engineer, and complete them by the Intended Completion Date.

18 **Approval by the Engineer**

18.1 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.

18.2 The Contractor shall be responsible for design of Temporary Works.

18.3 The Engineer's approval shall not alter the Contractor's responsibility for design of the Temporary Works.

18.4 The Contractor shall obtain approval of third parties to the design of the Temporary Works where required.

18.5 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.

19 **Safety**

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

20 **Discoveries**

20.1 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 of such discoveries and carry out the Engineer's instructions for dealing with them.

21 **Possession of the Site**

21.1 The Employer shall give Site possession to the Contractor as per the Contract Data. If possession of the Site is not given as per the Contract Data the Employer is deemed to have delayed the start of the relevant activities and this will be a Compensation Event.

22 **Access to the Site**

22.1 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 / assembled for the works.

23 **Instructions**

23.1 The Contractor shall carry out all instructions of the Engineer pertaining to works which comply with the applicable laws where the Site is located.

23.2 The Contractor shall permit the Employer to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by the Employer, if so required by the Employer.

24 **Dispute Redressal System**

24.1 i. If any dispute or difference of any kind what-so-ever shall arise in connection with or arising out of this Contract or the execution of works or maintenance of the works there under, whether before its commencement or during the progress of works or after the termination, abandonment or breach of the Contract, it shall, in the first instance, be referred for settlement to the competent authority, described along with their powers in the Contract Data, above the rank of the Engineer.

ii. The competent authority shall, within a period of forty-five days after being requested in writing by the Contractor to do so, convey his decision to the Contractor. Such decision in respect of every matter so referred shall, subject to review as hereinafter provided, be final and binding upon the Contractor.

iii. In case the Works is already in progress, the Contractor shall proceed with the execution of the Works, including maintenance thereof, pending receipt of the decision of the competent authority as aforesaid, with all due diligence.

24.2 Either party will have the right of appeal, against the decision of the competent authority, to the Standing Empowered Committee if the amount appealed against exceeds rupee ten lacs.

24.3 The composition of the Standing Empowered Committee will be as follows:

- |   |  |          |
|---|--|----------|
| 1 | One official member, from the Directors on the Board of Employer, preferably Chief Engineer, PWD | Chairman |
| 2 | GM/ CPM of RSRDC, as declared by Managing Director, RSRDC  | Member   |

- 3 One non-official member who is technical expert of at least Additional Chief Engineer's level, selected by the Contractor from a panel of three experts given to him by the Employer. Member
- 24.4 The Contractor and the Employer or his designated representative will be entitled to present their case in writing duly supported by documents. If so requested, the Standing Empowered Committee may allow one opportunity to the Contractor and the Employer or his designated representative for oral arguments for a specified period. The Empowered Committee shall give its decision within a period of ninety days from the date of appeal, and after this period, the parties will be free to approach the appropriate court of law for the resolution of the dispute.
- 24.5 The decision of the Standing Empowered Committee will be binding on both the Employer and the Contractor for payment of claims up to five percent of the Initial Contract Price. The Contractor can accept and receive payment after signing as 'in full and final settlement of all claims'. If the Contractor or the Employer or both do not accept the decision, they are not barred from approaching the courts.
- 25 **Arbitration**
- 25.1 In view of the provision of the clause 24 on Dispute Redressal System, it is the condition of the Contract that there will be no arbitration for the settlement of any dispute between the parties.

## **B. TIME CONTROL**

- 26 Deleted
- 27 **Programme**
- 27.1 Within the time stated in the Contract Data the Contractor shall submit to the Engineer for approval a Programme showing the general methods, arrangements, order, and timing for all the activities in the Works along with monthly cash flow forecast.
- 27.2 An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work including any changes to the sequence of the activities.
- 27.3 The Contractor shall submit to the Engineer, for approval, an updated Programme at intervals no longer than the period stated in the Contract Data. If the Contractor does not submit an updated Programme within this period, the Engineer may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Programme has been submitted
- 27.4 The Engineer's approval of the Programme shall not alter the Contractor's obligations. The Contractor may revise the Programme and submit it to the Engineer again at any time. A revised Programme is to show the effect of Variations and Compensation Events. The approval of revised Programme does not entitle the contractor to any extension in execution period. Any extension case will be decided independently on its merit.
- 28 **Extension of the Intended Completion Date**
- 28.1 The Engineer shall extend 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.
- 28.2 The Engineer shall decide whether and by how much to extend the Intended Completion Date within 35 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.
- 28.3 The Engineer shall within 14 days of receiving full justification from the contractor in writing for extension of Intended Completion Date refer his recommendations to the Employer. The Employer shall within 21 days communicate to the Engineer the acceptance or otherwise of the Engineer's recommendations. If the Employer fails to give his acceptance, the Engineer shall not grant the extension and the contractor may refer the matter to the Standing Empowered Committee for settlement of disputes under Clause 24.

- 29 Deleted
- 30 **Delays Ordered by the Engineer**
- 30.1 The Engineer may instruct the Contractor to delay the start or progress of any activity within the Works.
- 31 **Management Meetings**
- 31.1 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 plans for remaining work and to deal with matters raised in accordance with the early warning procedure.
- 31.2 The Engineer shall record the business of management meetings and 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.
- 32 **Early Warning**
- 32.1 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.
- 32.2 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 anyone involved in the work and in carrying out any resulting instruction of the Engineer.

### **C. QUALITY CONTROL**

- 33 **Identifying Defects**
- 33.1 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.
- 34 **Tests**
- 34.1 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. If there is no Defect the test shall be a Compensation Event.
- 35 **Correction of Defects**
- 35.1 The Engineer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion and is defined in the Contract Data. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
- 35.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Engineer's notice.
- 35.3 The contractor will have to maintain the Works for a period specified in the Contract Data. For this maintenance period he will be paid as per the conditions specified in Clause 3 of Special Condition of Contract.
- 36 **Uncorrected Defects**
- 36.1 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 the Contractor will pay the actual cost plus 20%. If the contractor does not pay this amount, Engineer shall have the right to recover through any options available to him.

### **D. COST CONTROL**

- 37 **Bill of Quantities**
- 37.1 The Bill of Quantities shall contain items for the construction, installation, testing, and commissioning work to be done by the Contractor.
- 38 The Engineer-in-charge shall have power to make any alterations, omissions or additions to or substitutions for the original specifications, drawings, designs and instructions, that may appear to him to be necessary during the progress of the work and the contractor shall carry out the work in accordance with any instructions which may be given to him in writing signed by the Engineer and such alterations, omission, additions or substitutions shall not

invalidate the contract and any altered, additional or substituted work which the contractor may be directed to do in the manner above specified, as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work.

The time for the completion of the work shall be extended in the proportion that the altered, additional or substituted work bears to the original contract work, and the certificate of the Engineer-in-charge shall be conclusive as to such proportion.

The rates for such additional altered or substituted work under this clause shall be worked out in accordance with the following provisions in their respective order.

- 38.1 If the rates for the additional, altered or substituted work are specified in the contract for the work, the contractor is bound to carry out the additional altered or substituted work at the same rates as per specified in the contract for the work.
- 38.2 If the rates for the altered, additional or substituted work not specifically provided in the contract for the work, then such rates will be derived from the rates for a similar class of work as are specified in the contract for the work.
- 38.3 If the rates for the altered, additional or substituted work can not be determined in the manner specified in the clause 38.1 or 38.2, then the rates for such composite work item shall be worked out on the basis of the concerned Schedule or Rates of the District/area specified above minus/ plus the percentage which the total tendered amount bears to the estimated cost of the entire work put on tender.
- Provided always that if the rate for a particular part or parts of the item is not in the Schedule of Rates, the rate for such part or parts will be determined by the Engineer on the basis of the prevailing market rates when the work was done.
- 38.4 If the rates for the altered, additional or substituted work item can not be determined in the manner specified in clauses 38.1 or 38.3, then the contractor shall within 7 days of the date of receipt or order to carry out the work, inform the Engineer of the rate which it is his intention to charge for such class of work supported by analysis of the rate or rates on the basis of prevailing market rates and get approval from employer and mean while the contractor is paid at provisional rate decided by Engineer. However, the Engineer by the notice in writing will be at liberty to cancel his order to carry out such class of work and arrange to carry it out in such manner, as he may consider advisable. But under no circumstances, the contractor shall suspend the work on the plea non-settlement of rates on items falling under the clause.
- 38.5 Except in case of items relating to foundations, clauses 38.1 to 38.4 shall not apply to contract or substituted items if individually exceed the percentages set out in the tender documents under clause 38.7.1.
- 38.6 For the purpose of operation of clause 38.5 the following works shall be treated as work relating to foundations:-
- 38.6.1 For buildings, compound wall, plinth level or 1.2 meters (4 ft.) above ground level whichever is lower, excluding items above flooring and D.P.C. but including base concrete below the floors.
- 38.6.2 For abutments, piers, retaining wall of culverts and bridges, wall of water reservoir and the bed of floor level.
- 38.6.3 For retaining walls, where floor levels is not determinate 1.2 meters above the average ground level or bed level.
- 38.6.4 For roads, all items or excavation and filling including treatment of sub base and soling work.
- 38.6.5 For water supply lines, sewer lines under ground storms water drains and similar work. all items of work below ground level except items of pipe work for proper masonry work.
- 38.6.6 For open storm water drains, all items of work except lining of drains.
- 38.6.7 Any other items of similar nature which Engineer may decide relating to foundation
- 38.7 The rate of any such work, except the items relating to foundations, which is in excess of the deviation limit, shall be determined as per Clause 38.7.1.
- 38.7.1 The quantum of additional work for each item shall not exceed 50% of the original quantity given in the agreement and the total value of additional work shall not exceed 20% of the total contract value, unless otherwise mutually agreed by the Engineer and the contractor. This limit shall not be applicable on items relating to foundation work which shall be executed as per original rates or provision of clause 38.1 to 38.4.

- 38.7.2 In case of contract substituted items or additions items, which results in exceeding the deviation limit laid down in this clause except items relating to foundation work, which the contractor is required to do under clause 38 above, the contractor shall within 7 days from the receipt of order, claim revision of the rate supported by proper analysis in respect of such items for quantities in excess of the deviation limit notwithstanding the fact that the rates for such items exist in the tender for the main work or can be derived as per clause 38.2 and the Engineer, may revised their rates having regard to the prevailing market rates and got approved from employer the contractor shall be paid at provisional rate decided by Engineer to final approval of rates by employer. The Engineer shall however, be at liberty to cancel his order to carry out such increased quantities of work by giving notice in writing to the contractor and arrange to carry it out in such manner as he may consider advisable. But under no circumstance, the contractor shall suspend the work on the plea of non-settlement of rates of items failing under this Clause.
- 38.7.3 All the provisions of the preceding paragraph shall equally apply to the decrease in rates of items for quantities in excess of he deviation limit notwithstanding the fact that the rates for such items exist in the tender for the main work or can be derived as per clause 38.2 and the Engineer may revise such rates having regard to the prevailing market rates unless otherwise mutually agreed by the Employer and the Contractor.
- 39 **Variations**
- 39.1 All Variation shall be included in updated Programms produced by the Contractor.
- 40 Deleted
- 41 **Cash Flow Forecasts**
- 41.1 When the Programme is updated, the contractor is to provide the Engineer with an updated cash flow forecast.
- 42 **Payment Certificates**
- 42.1 The Contractor shall submit to the Engineer monthly statements of the estimated value of the work completed minus the cumulative amount certified previously.
- 42.2 The Engineer shall check the Contractor's monthly statement preferably within 14 days and certify the amount to be paid to the Contractor.
- 42.3 The value of work executed shall be determined by the Engineer.
- 42.4 The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- 42.5 The value of work executed shall include the valuation of Variations and Compensation Events.
- 42.6 The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.
- 43 **Payments**
- 43.1 Payments shall be adjusted for deductions for retention, other recoveries in terms of the contract and taxes at source, as applicable under the law. The Employer shall preferably pay the Contractor the amounts certified by the Engineer within 28 days of the date of each certificate.
- 43.2 Items of the Works for which no rate or price has been entered in will not be paid for by the Employer and shall be deemed to be covered by other rates and prices in the Contract.
- 44 **Compensation Events**
- 44.1 The following are Compensation Events unless they are caused by the Contractor:
- a The Employer does not give access to 90 percent of the Site by the Site Possession Date stated in the Contract Data.
  - b The Employer modifies the schedule of other contractors in a way which affects the work of the contractor under the contract
  - c The Engineer orders a delay or does not issue drawings, specifications or instructions required for execution of works on time.
  - d The Engineer instructs the Contractor to uncover or to carry out additional tests upon work which is then found to have no Defects
  - e Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of Letter of Acceptance from the information issued to

Bidders (including the Site Investigation' Reports), from information available publicly and from a visual inspection of the site

- f The Engineer gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.
- g Other contractors, public authorities, utilities or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.
- h The effect on the Contractor of any of the Employer's Risks.
- i The Engineer unreasonably delays issuing a Certificate of Completion.
- j Removal of underground utilities detected subsequently
- k Significant change in classification of soil requiring additional mobilization by the contractor, e.g. ordinary soil to rock excavation,
- l Removal of unsuitable material like marsh, debris dumps, etc not caused by the contractor
- m Artesian conditions
- n Seepage, erosion, landslide
- o River training requiring protection of permanent work
- p Presence of historical, archeological or religious structures, monuments interfering with the works
- q Restriction of access to ground imposed by civil, judicial, or military authority

Other Compensation Events listed in the Contract Data or mentioned in the Contract

44.2 In case of a Compensation Event, the Engineer shall decide whether and by how much the Intended Completion Date shall be extended.

44.3 Deleted

44.4 The Contractor shall not be entitled to time extension 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.

#### 45 **Tax**

45.1 The rates quoted by the Contractor shall be deemed to be inclusive of the sales and other taxes 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.

#### 46 **Currencies**

46.1 All payments shall be made in Indian National Rupees.

#### 47 **Price Adjustment**

47.1 Contract price shall be adjusted for increase or decrease in rates and price of Bitumen, Steel, and Cement as per the following principles and procedures and as per formula given in the Contract Data:

47.1.1 The price adjustment shall apply for the work done from the start date given in the Contract Data up to end of the initial intended completion date or extensions granted by the Engineer and shall not apply to the work carried out beyond the stipulated time for reasons attributable to the contractor.

47.1.2 The price adjustment shall be determined during each month from the formula given in the Contract Data.

47.1.3 Following expressions and meanings are assigned to the work done during each month:

R = Total value of work done during the month. It would include the amount of secured advance granted, if any, during the month, less the amount of secured advance recovered, if any, during the month. It will exclude value for works executed under variations for which price adjustment will be worked separately based on the terms mutually agreed.

47.2 To the extent that full compensation for any rise or fall in costs to the contractor is not covered by the provisions of this or other clauses in the contract, the unit rates and prices included in the contract shall be deemed to include amounts to cover the contingency of such other rise or fall in costs.

#### 48 **Retention**

48.1 The Employer shall retain from each payment due to the Contractor the proportion stated in

- the Contract Data until Completion of the whole of the Works.
- 48.2 On Completion of the whole of the Works half the total amount retained is repaid to the Contractor and half when the Defects Liability Period has passed and the Engineer has certified that all Defects notified by the Engineer to the Contractor before the end of this period have been corrected.
- 48.3 On completion of the whole works, the contractor may substitute retention money with an 'on demand' Bank guarantee.
- 49 **Liquidated Damages**
- 49.1 The Contractor shall pay liquidated damages to the Employer at the rate per day stated in the Contract Data for each day that the Completion Date is later than the Intended Completion Date (for the whole of the works or the milestone as stated in the Contract Data). The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages does not affect the Contractor's liabilities.
- 49.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Engineer shall correct any over-payment of liquidated damages by the Contractor by adjusting the next payment certificate.
- 49.3 If the contractor fails to comply with the time for completion as stipulated in the tender, then the contractor shall pay to the employer the relevant sum stated in the Contract Data as Liquidated damages for such default, and not as penalty, for everyday or part of day which shall elapse between relevant time for completion and the date stated in the taking over certificate of the whole of the works on the relevant section, subject to the limit stated in the Contract Data.  
The employer may, without prejudice to any other method of recovery, deduct the amount of such damages from any monies due or to become due to the contractor. The payment or deduction of such damages shall not relieve the contractor from his obligation to complete the works or from any other of his obligations and liabilities under the contract.
- 49.4 If, before the Time for Completion of the whole of the Works or, if applicable, any Section, a Taking-Over Certificate has been issued for any part of the Works or of a Section, the liquidated damages for delay in completion of the remainder of the Works or of that Section shall, for any period of delay after the date stated in such Taking-Over Certificate, and in the absence of alternative provisions in the Contract, be reduced in the proportion which the value of the part so certified bears to the value of the whole of the Works or Section, as applicable. The provisions of this Clause shall only apply to the rate of liquidated damages and shall not affect the limit thereof.
- 50 Deleted
- 51 Deleted
- 52 **Securities**
- 52.1 The Performance Security (including additional performance security for unbalanced bid) shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and from a bank or surety acceptable to the Employer, and denominated in Indian Rupees. The Performance Security shall be valid until a date 28 days from the date of expiry of Maintenance Period and the additional performance security for unbalanced bids shall be valid until a date 28 days from the date of issue of the certificate of completion.  
'The performance security and additional performance security of a Joint Venture shall be in the name of either partner severally or jointly in the name of the Joint Venture.'
- 53 Deleted
- 54 **Cost of Repairs**
- 54.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.
- E. FINISHING THE CONTRACT**
- 55 **Completion**
- 55.1 The Contractor shall request the Engineer to issue a Certificate of Completion of the Works and the Engineer will do so upon deciding that the Work is completed.

56 **Taking Over**

56.1 The Employer shall take over the Site and the Works within seven days of the Engineer issuing a certificate of Completion.

57 **Final Account**

57.1 The Contractor shall supply to the Engineer a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Engineer shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor preferably within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, the Engineer shall issue preferably within 56 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Engineer shall decide on the amount payable to the Contractor and issue a payment certificate, preferably within 56 days of receiving the Contractor's revised account.

58 **Operating and Maintenance Manuals**

58.1 If 'as built' Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the Contract Data.

58.2 If the Contractor does not supply the Drawings and/or manuals by the dates stated in the Contract Data, or they do not receive the Engineer's approval, the Engineer shall withhold the amount stated in the Contract Data from payments due to the Contractor.

59 **Termination**

59.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.

59.2 Fundamental breaches of Contract include, but shall not be limited to the following:

- a the Contractor stops work for 28 days when no stoppage of work is shown on the current Programme and the stoppage has not been authorized by the Engineer;
- b the Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation
- c 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;
- d the Contractor does not maintain a security which is required;
- e 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
- f if the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
- g 'The contractor (in case of joint venture) has modified the composition of the joint venture and/or the responsibility of each member of the joint venture from what is stated in joint venture agreement without prior approval of the Employer'.

For the purpose of this clause, 'corrupt practice' means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official 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 to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.'

59.3 When either party to the Contract gives notice of a breach of contract to the Engineer for a cause other than those listed under Sub Clause 59.2 above, the Engineer shall decide whether the breach is fundamental or not.

59.4 Notwithstanding the above, the Employer may terminate the Contract for convenience.

59.5 If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

60 **Payment upon Termination**

60.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor,  
i. the Engineer shall issue a certificate for  
a. the value of the work done,

- b. less advance payments received up to the date of the issue of the certificate,
  - c. less other recoveries due in terms of the contract,
  - d. less taxes due to be deducted at source as per applicable laws.
  - ii. If the total amount due to the Contractor is lower than the payment due to the Employer, the difference shall be a debt payable by the contractor to the Employer. If the total amount due to the Contractor is higher than the payment due to the Employer, the difference shall be payable by the Employer to the contractor.
  - iii. The performance security in full and the additional performance security, if any, shall be forfeited in the ratio in which the work remains incomplete.
  - iv. Additional Liquidated Damages shall not apply.
- 60.2 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 work done, the cost of balance material brought by the contractor and available at site, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.
- 61 **Property**
- 61.1 All materials on the-Site, Plant, Equipment, Temporary Works and Works are deemed to be the property of the Employer, if the Contract is terminated because of a Contractor's default.
- 62 **Release from Performance**
- 62.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which commitment was made.

## F. SPECIAL CONDITIONS OF CONTRACT

- 1 **LABOUR:**
- 1.1 The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.
- 1.2 The Contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Engineer may require.
- 2 **COMPLIANCE WITH LABOUR REGULATIONS:**
- 2.1 During continuance of the contract, the Contractor and his sub-contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government 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. Salient features of some of the major labour laws that are applicable to construction industry are given below. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for nonobservance of the provisions stipulated in the notifications bye laws/ Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct any money due to the Contractor including his amount of performance security. The Employer/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 the Employer.
- 2.2 The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.
- 2.3 **SALIENT FEATURES OF SOME MAJOR LABOUR LAWS APPLICABLE TO ESTABLISHMENTS ENGAGED IN BUILDING AND OTHER CONSTRUCTION**

## **WORK.**

- 2.3.1 Workmen Compensation Act 1923 :- The Act provides for compensation in case of injury by accident arising out of and during the course of employment.
- 2.3.2 Payment of Gratuity Act 1972 :- Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed 5 years service or more on death, the rate of 15 days wages for every completed year of service. The Act is applicable to all establishments employing 10 or more employees.
- 2.3.3 Employees P.F. and Miscellaneous Provision Act 1952 :- The Act Provides for monthly contributions by the employer plus workers @ 10% or 8.33%. The benefits payable under the Act are :
- a Pension or family pension on retirement or death, as the case may be.
  - b Deposit linked insurance on the death in harness of the worker.
  - c Payment of P.P. accumulation on retirement/death etc
- 2.3.4 Maternity Benefit Act 1951 :- The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.
- 2.3.5 Contract Labour (Regulation & Abolition) Act 1970 :- The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided, by the Principal Employer by Law. The Principal Employer is required to take Certificate of Registration and the Contractor is required to take licence from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer, if they employ 20 or more contract labour.
- 2.3.6 Minimum Wages Act 1948 :- The Employer is supposed to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act, if the employment is a scheduled employment. Construction of Buildings, Roads, Runways are scheduled employments.
- 2.3.7 Payment of Wages Act 1936:- It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.
- 2.3.8 Equal Remuneration Act 1979 :- The Act provides for payment of equal wages for work of equal nature to Male and Female workers and for not making discrimination against Female employees in the matters of transfers, training and promotions etc.
- 2.3.9 Payment of Bonus Act 1965 :- The Act is applicable to all establishments employing 20 or more employees. The Act provides for payments of annual bonus subject to a minimum of 8.33% of wages and maximum of 20% of wages to employees drawing Rs.3500/-per month or less. The bonus to be paid to employees getting Rs.2500/- per month or above upto Rs.3500/- per month shall be worked out by taking wages as Rs.2500/-per month only. The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. Some of the State Governments have reduced the employment size from 20 to 10 for the purpose of applicability of this Act.
- 2.3.10 Industrial Disputes Act 1947 :- The Act lays down the machinery and procedure for resolution of Industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.
- 2.3.11 Industrial Employment (Standing Orders) Act 1946 :- It is applicable to all establishments employing 100 or more workmen (employment size reduced by some of the States and Central Government to 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and get the same certified by the designated Authority.
- 2.3.12 Trade Unions Act 1926 :- The Act lays down the procedure for registration of trade unions of workmen and employers. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.
- 2.3.13 Child Labour (Prohibition & Regulation) Act 1986 :- The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulation of employment of children in all other occupations and processes. Employment of Child Labour is prohibited in Building and Construction Industry.
- 2.3.14 Inter-State Migrant workmen's (Regulation of Employment & Conditions of Service) Act 1979 :- The Act is applicable to an establishment which employs 5 or more inter-state

migrant workmen through an intermediary (who has recruited workmen in one state for employment at the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as housing, medical aid, traveling expenses from home upto the establishment and back, etc.

2.3.15 The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996 :- All the establishments who carry on any building or other construction work and employs 10 or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the Building or construction work and other welfare measures, such as Canteens, First-Aid facilities, Ambulance, Housing accommodations for workers near the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.

2.3.16 Factories Act 1948:- The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing 10 persons or more with aid of power or 20 or more persons without the aid of power engaged in manufacturing process.

### 3 **Payment during Maintenance Period (In addition to clause 35)**

3.1 The contractor will have to maintain the road/ building/ bridge for six years after issuance of completion certificate. For maintaining the road/ building/ bridge during this period the contractor shall be paid as per as per the rate mentioned in Contract Data.

3.2 The payment for maintenance will be made to contractor at the end of each quarter proportionately on successful maintenance of the road/ building/ bridge during that quarter. The contractor shall be fully liable for the expenses made towards the maintenance. He shall not be entitled for any extra expenditure incurred. The Engineer shall keep watch on the maintenance and shall issue certificate at the end of each quarter which shall entitle contractor to claim for maintenance charges.

3.3 In case contractor fails to maintain the road in any quarter during maintenance period, a sum equivalent to twice the sum payable during that quarter or actual expenditure plus 20% done to correct the defect, whichever is higher, shall be recovered from his Performance Security.

3.4 The Performance Security will be refunded after expiry of maintenance period.

3.5 During the maintenance period the contractor shall be liable to attend all construction defects left by him. In case of failure to attend such defects, the same shall be got rectified by the Employer and cost recovered as per clause 3.4.

## SECTION 4

### CONTRACT DATA

S N	Cl. No.		
		<b>Items marked 'N/A' do not apply in the Contract Data.</b>	
1	1.1	Employer Name : Address :	Managing Director Setu Bhawan, Opposite Jhalana Doongari, Jaipur- Agra Bypass, Jaipur- 302004
		Name of authorized Representative	Project Director RSRDC Ltd., Unit Udaipur
2	1.1	The Engineer is :  Name of authorized Representative	Project Director RSRDC Ltd., Unit Udaipur Project Officer RSRDC Ltd., Unit Udaipur)
3	1.1 & 35	The Defects Liability Period	6 Year from the date of completion.
4	1.1	Start Date	21 days from issue of LOA
5	1.1, 17 & 28 2.2 & 49.	Intended Completion Date for the Whole of the Work  Milestones:  Physical works to be completed Milestone 1 i.e. 15% of initial contract price  Milestone 2 i.e. 40% of initial contract price Milestone 3 i.e. 70% of initial contract price	Ten months after start of work   Period from the start date 1/4 <sup>th</sup> of completion period  1/2 <sup>nd</sup> of completion period 3/4 <sup>th</sup> of completion period
6	1.1	Location of site	DEVELOPMENT OF BANSWARA-RATLAM ROAD (SH-10) FROM KM. 125/0 TO 140/0 NIT No. 466, S.No. 5
7	1.1	The name and identification number of the Contract	
8	1.1	The works shall, inter alia, include the following, as specified or as directed : <b>(A) Road Works</b> Site clearance; setting-out and layout; widening of existing carriageway and strengthening including camber corrections; construction of new road/ parallel service road; bituminous pavements remodeling/construction of junctions, intersections, bus bays, lay bays; supplying and placing of drainage channels, flumes, guard posts and guard other related items; construction /extension of cross drainage works, bridges, approaches and other related stones; road markings, road signs and kilometer/ hectometer stones; protective works for roads/ bridges; all aspects of quality assurance of various components of the works; rectification of the defects in the completed works	

during the Defects Liability Period; submission of 'As built' drawings and any other related documents; and other item of work as may be required to be carried out for completing the works in accordance with the drawings and provisions of the contract to ensure safety.

**(B) Bridge Works**

Site clearance; setting out, provision of foundations, piers abutments and bearings; prestressed/reinforced cement concrete superstructure; wearing coat, hand railings, expansion joints, approach slabs, drainage spouts/ down take pipes, arrangements for fixing light posts, water mains, utilities etc; provision of suitably designed protective works; providing wing/return walls; provision of road markings, road signs etc.; all aspects of quality assurance; clearing the site and handing over the works on completion; rectification of the defects during the Defects Liability Period and submission of 'As-built' drawings and other related documents; and other items of work as may be required to be carried out for completing the works in accordance with the drawings and the provisions of the contract and to Insure safety.

**(C) Building Works**

Site clearance; setting out, provision of foundations, walls (stone/ brick masonry); reinforced cement concrete structures like column, beams etc; roofing, flooring, plaster, pointing, white/colour wash, wood work, steel work, water supply and sanitary; clearing the site and handing over the works on completion; rectification of the defects during the Defects Liability Period and submission of 'As-built' drawings and other related documents; and other items of work as may be required to be carried out for completing the works in accordance with the drawings and the provisions of the contract and to Insure safety.

**(D) Other Items**

	1.1	Any other items as required to fulfill all contractual obligations as per the Bid documents.	
9	2.3	The following documents also form part of the Contract:	1 Maintenance Manual
10	3.1	The law which applies to the Contract	the law of Union of India
11	3.1	The language of the Contract documents	English and Hindi
12	7.1	Limit of subcontracting	Only labour contract or Supply of material.
13	8	The Schedule of Other Contractors	
14	9	The Schedule of Key Personnel	
15	13	The minimum insurance cover for physical property, injury and death	Rs.5 lac per occurrence with the number of occurrences limited to four
		After each occurrence, contractor will pay additional premium necessary to make insurance valid for four occurrences always.	
16	14	Site investigation report	Available in DPR
17	21	The Site Possession Dates	
		50% length of work site	On start date
		75% length of work site	After 25% completion period

		99% length of work site	After 50% completion period
18	24.1	Competent authority	Dy General Manager, RSRDC with powers up to 0.5% of initial contract price.
19	27.1	The period for submission of the programme for approval of Engineer	21 days from the issue of Letter of Acceptance.
20	27.2	The period between programme updates	60 days
21	27.3	The amount to be withheld for late submission of an updated programme	Rs. 1 lac.
22	44	The following events shall also be Compensation Events	
23		The currency of the Contract	Indian National Rupee
24	47	The formula (e) for adjustment of prices are: R = Value of work as defined in Clause 47.1 of Conditions of Contract	
		<b>a Adjustment for <u>cement</u> component</b>	
		Price adjustment for increase or decrease in the cost of cement procured by the contractor shall be paid in accordance with the following formula:	
		$V_c = 0.85 \times P_c / 100 \times R \times (C_i - C_o) / C_o$	
		$V_c$ = increase or decrease in the cost of work during the month under consideration due to changes in rates for cement.	
		$C_o$ = The all India wholesale price index for cement on 28 days preceding the date of opening of Bids as published by the Ministry of Industrial Development, Government of India, New Delhi.	
		$C_i$ = The all India average wholesale price index for cement for the month under consideration as published by Ministry of Industrial Development, Government of India, New Delhi	
		$P_c$ = Percentage of cement component of the work	
		<b>b Adjustment for <u>steel</u> component</b>	
		Price adjustment for increase or decrease in the cost of steel procured by the Contractor shall be paid in accordance with the following formula:	
		$V_s = 0.85 \times P_s / 100 \times R \times (S_i - S_o) / S_o$	
		$V_s$ = Increase or decrease in the cost of work during the month under consideration due to changes in the rates for steel	
		$S_o$ = The all India wholesale price index for steel (Bars and Rods) on 28 days preceding the date of opening of Bids as published by the Ministry of Industrial Development, Government of India, New Delhi	
		$S_i$ = The all India average wholesale price index for steel (Bars and Rods) for the month under consideration as published by Ministry of Industrial Development, New Delhi	
		$P_s$ = Percentage of steel component of the work	

Note: For the application of this clause, index of Bars and Rods has been chosen to represent steel group.

**c Adjustment of bitumen component**

Price adjustment for increase or decrease in the cost of bitumen shall be paid in accordance with the following formula:

$$V_b = 0.85 \times P_b / 100 \times R \times (B_i - B_o) / B_o$$

$V_b$  = Increase or decrease in the cost of work during the month under consideration due to changes in rates for bitumen.

$B_o$  = The official retail price of bitumen at the IOC depot at nearest center on the day 28 days prior to date of opening of Bids.

$B_i$  = The official retail price of bitumen of IOC depot at nearest center for the 15th day of the month under consideration.

$P_b$  = Percentage of bitumen component of the work

The following percentages will govern the price adjustment for the entire contract:

S. No.	Material	Percentage*		
		For Road Work*	For Bridge Work*	For Building Work*
1	Cement - $P_c$	5%	15%	15%
2	Steel - $P_s$	5%	15%	10%
3	Bitumen - $P_b$	10%	-	-

\* percentage for different materials are to be calculated and mentioned for project specific.

25	48	The proportion of payments retained (retention money)	6% from each bill subject to a maximum of 5% of initial contract price
26	49	Amount of liquidated damages for delay in completion of works <u>For Whole of work</u>  <u>For non-achievement of milestone</u>	0.05% of the Initial Contract Price, rounded off to the nearest Thousand, per day. 0.05% of price as specified in mile stone, rounded off to the nearest thousand per day.
27	49	Maximum limit of liquidated damages for delay in completion of work.	10 per cent of the Initial Contract Price rounded off to the nearest thousand.
28	3 of SCC	Applicable payment during maintenance period. 1 <sup>st</sup> Year 2 <sup>nd</sup> Year 3 <sup>rd</sup> Year 4 <sup>th</sup> Year 5 <sup>th</sup> Year 6 <sup>th</sup> Year	Percentage of completion cost* NIL 0.50% 0.75% 1.00% 1.25% 1.50%

\* the rate is to be specified for specific project i.e road / building/ bridge/ ROB/ others

- |    |      |  |   |
|----|------|--|---|
| 29 | 52   | The Securities shall be for the following minimum amounts equivalent as a percentage of the Contract Price:  | Performance Security for 5 per cent of contract price plus Rs. _____ as additional performance security in terms of ITB Clause 29.5 |
|    |      | The standard form of Performance Security and Additional Performance Security acceptable to the Employer shall be an <u>unconditional Bank Guarantee</u> of the type as in Section 8 of the Bidding Documents. |   |
| 30 | 58   | The Schedule of Operating and Maintenance Manuals  | Enclosed  |
| 31 | 58   | The date by which 'as-built' drawings (in scale as directed) in 2 sets are required  | within 28 days of issue of certificate of completion  |
| 32 | 58   | The amount to be withheld for failing to supply 'as built' drawings by the date required   | Rs 5 Lacs.  |
| 33 | 59.2 | The events shall also be fundamental breach of contract  | The Contractor has contravened clause 7.1 and Clause 9 of GCC.  |

## **SECTION 5**

### **TECHNICAL SPECIFICATIONS**

#### **A. For Road & Bridge/ROB works:**

All the items of work included in the scope of work will be executed as per MoRTH specifications for road and bridge work (4th revision-2001) and relevant IRC & I.S. Codes and as per circulars/guide lines issued by the MoRTH from time to time & amended by respective body time to time till 30 days before opening of tender.

#### **B. For Building works:**

All the items of work included in the scope of work will be executed as per relevant PWD & I.S. Codes and as per circulars/guide lines issued by the PWD/ RSRDC from time to time & amended by respective body time to time till 30 days before opening of tender.

SECTION 6  
FORM OF BID

Description of the  
Works: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

BID To :  
To  
Address :

1 We offer to execute the Works described above and remedy any defects therein in conformity with the conditions of Contract, specification, drawings, Bill of Quantities and Addenda for the sum(s) of

\_\_\_\_\_  
\_\_\_\_\_

2 We undertake, if our Bid is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Engineer's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the document.

3 We agree to abide by this Bid for the period of \* days from the date fixed for receiving the same, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

4 Unless and until a formal Agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

5 We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20.....  
Signature \_\_\_\_\_ in the capacity of \_\_\_\_\_  
duly authorized to sign bids for and on behalf of

(in block capitals or typed)  
Address:

\_\_\_\_\_  
\_\_\_\_\_

Witness

\_\_\_\_\_  
\_\_\_\_\_

Address:

\_\_\_\_\_  
\_\_\_\_\_

Occupation

\_\_\_\_\_

## **SECTION 7**

### **BILL OF QUANTITIES**

#### Preamble

- 1 The Bill of Quantities shall be read in conjunction with the instruction to bidders, conditions of contract specifications & drawings.
- 2 For the construction of works, the quantities given in the bill of quantities are estimated, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out as measured by the contractor and verified by the Engineer and valued.
  - a. All the rates and prices tendered in the bill of quantities in the case of item rate tenders and
  - b. All percentage rate above and below or at par of the schedule of rates as tendered by the contractor
- 3 The rates and prices tendered in the priced bill of quantities shall except in so far as it is otherwise provided under the contract include all constructional plant, Labour, Supervision, materials, erections, maintenance, insurance, profit, taxes and duties together with all general risks, liabilities and obligations set out in the contract.
- 4 Arithmetic errors will be corrected by the employers pursuant to clause 27 of the instructions of bidders
- 5 When percentage rate tenders are invited, the bill of quantities will show in the bidding documents the rate used for different items. In case of typographical error in the rate given, the rate for the item of concern BSR specified in schedule G, as amended till the date of bidding, will prevail.

**NAME OF WORK : DEVELOPMENT OF BANSWARA-RATLAM ROAD (SH-10) FROM KM. 125/0 TO 140/0**  
(Based on PWD NH Circle Kota BSR w.e.f. Feb. 2009)

**G-SCHEDULE**

**General Abstract**

Particulars		Amount	
<b>Part 'A'</b>	Site Clearance & Dismantling	Rs.	554,289
<b>Part 'B'</b>	Earth Work	Rs.	65,709,461
<b>Part 'C'</b>	Sub Base, Base Course & Shoulder Work	Rs.	43,138,278
<b>Part 'D'</b>	Bituminous Work	Rs.	172,571,251
<b>Part 'E'</b>	Culvert	Rs.	20,844,437
<b>Part 'F'</b>	Drainage and Protection	Rs.	685,809
<b>Part 'G'</b>	Traffic Sign & Marking	Rs.	12,743,305
	<b>Total</b>		<b>316,246,829</b>

(Rupees Thirty One Crores Sixty Two Lacs Forty Six Thousand Eight Hundred Twenty Nine Only)

**Note: S.D. will be refunded after Six Year (Defect Liability Period) from actual date of completion.**

**PROJECT DIRECTOR**  
RSRDC Ltd.  
Unit Udaipur

I / We Tender for the above work

@ of \_\_\_\_\_ % above/ below (in Words

\_\_\_\_\_ ) the "G" Schedule amounting to Rs.

\_\_\_\_\_ and Rs. \_\_\_\_\_ for items of Schedule "H".

Total of "G" & "H" Schedule amount \_\_\_\_\_ .

**SIGNATURE OF TENDERING CONTRACTOR**

## PART – A SITE CLEARANCE & DISMANTLING

S. No.	Item of Work	Unit	Qty	Rate	Amount
1	Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, removal of stumps, disposal of unserviceable material and stacking of serviceable material upto 1000m from road boundary. (MoRTH Specification : Clause 201).				
	<b>My mechanical Means in area of Light Jungle</b>	Hectare	18.50	21810	403529
	Cutting of trees, including cutting of trunks, branches and removal of stumps, roots stacking of serviceable material with all lifts and upto a lead of 1000 m and earth filling in the depression/ pit as per MORTH specification clause 201.				
	a) Girth above 300mm & upto 600 mm	Nos.	75	119	8925
	b) Girth above 600mm & upto 900 mm	Nos.	120	216	25920
2	a) Girth above 900mm & upto 1800 mm	Nos.	230	414	95220
	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lift and lead of 1000 metres. [MoRTH Specification: Clause 202].				
	BY MECHANICAL MEANS				
3	Cement concrete grade M-15 & M-20	Cum	61.95	252	15611
	Removing of all type of hume pipes & stacking with in a lead of 100 m including earthwork and dismantling of masonry works. (MoRTH specification : Clause 202)				
	300mm to 600mm dia	RM	62	82	5084
4					
	<b>Total</b>				<b>554289</b>

## PART – B EARTH WORK

S. No.	Item of Work	Unit	Quantity	Rate	Amount
1	<b>Loosening of the ground</b> up to a level of 500 mm below the sub grade level, watered, graded and compacted in layers by vibratory roller 8-10 Tone to meet requirement of Table 300-2 for sub grade construction as per MoRTH specification Clause No. 305.3.4.ByMechanical Means In area of light jungle	Cum	32748.30	47	1539170
2	Earthwork in excavation for roadway in soil, including stacking / disposal of surplus material exclusive of compensation of earth (MoRTH specification: clause 301 to 305). By Dozer with lead upto 100 mtrs.	Cum	88985.14	71	6317945
3	Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted by vibratory roller 8-10 tonne to meet requirement of Tale 300-2 as per MoRTH specification : Clause No. 305	Cum	43036.47	58	2496115
4	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 by vibratory roller 8-10 tonne to meet requirement of Table 300-2 including cost of compensation for earth taken from private land with lead upto 1 km as per MoRTH Specification : Clause No. 305.	Cum	517831.91	95	49194031
5	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 require slope and compacted by vibratory roller 8-10 tonne to meet requirement of Table 300-2 as per MoRTH specification : Clause No. 305.	Cum	51783.19	119	6162200
	<b>Total</b>				<b>65709461</b>

**PART – C SUB BASE, BASE COURSE & SHOULDER WORK**

<b>S. No.</b>	<b>Item of Work</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
1	<b>GSB</b> Providing laying, spreading and compacting specified graded sand, gravel as per table 400-1, 400-2 or any other coarse material as per design mix, as per CBR in sub base course including premixing the material at OMC in mechanical mixer (Pug mill), carriage of mixed material, spreading in uniform layers with Motor Grader, F.E. Loader on a prepared base and compacting with vibratory roller to achieve desired density (as per IS 2720) including all material, labour, machinery, lighting, guarding, barricading and maintenance of diversion complete. (MoRTH specification : clause 401). Including All Lead & Lifts	Cum	38,610	598	23092659
2	<b>WMM</b> Providing, laying, spreading and compacting crushed graded stone aggregate as per Table 400-10 & 400.11 to Wet Mix Macadam specifications including premixing the material with water to OMC in mechanical mixer (Pug mill) as per design mix, carriage of mixed material by tipper to site laying in uniform layers, with motor grader/F.E. loader/Paver Finisher, in sub-base/base course on a well prepared under-base and compacting with Vibratory Roller to achieve the desired density including lighting, guarding, barricading and maintenance of diversion etc. (MoRTH specification : Clause 406). Including All Lead & Lifts	Cum	21,557	913 .1	19683696
3	<b>Cleaning the existing WBM/WMM surface</b> including removing of binding material and other foreign matter with wire brushes, small picks, sweeping with brooms/soft brushes, finally dusting with old gunny bags and compressed air to receive bituminous treatment. (MoRTH specification : clause 501 to 503, 112).	Sqm	78,639	5	361739
	<b>Total</b>				<b>43138094</b>

**PART – D BITUMINOUS WORK**

S. No.	Item of Work	Unit	Quantity	Rate	Amount
1	<b>Cleaning of Existing black topped</b> surfaces with brooms / soft brushes finally dusting with old gunny bags and compressed air to receive bituminous treatment (MoRTH specifications 501 to 503 & 112)	Sqm	97881.00	2.5	244,703
2	<b>Providing and applying primer coat</b> over prepared surface of granular base with bitumen emulsion as per IS:8887 & manufacturer's specifications @6 kg/10 sqm with a self propelled or towed bitumen pressure sprayer equipped for spraying the material uniformly at specified rates and temperatures (including cleaning of road surface) as per MoRTH specification : Cl. 502, 112	Sqm	106656.00	20.6	2,197,114
	<b>(a) Add extra to above item per kg extra in emulsion per 10 sqm</b>	Sqm	106656.00	2.71	289,038
3	<b>Providing and applying tack coat</b> on the prepared surface, with bitumen emulsion as per IS:8887 & manufacturer's specifications @0.2 kg/sqm with a self propelled or towed bitumen pressure sprayer equipped for spraying the material uniformly at specified rates and temperatures (including cleaning of road surface) as per MoRTH specification Cl. 502, 112.	Sqm	209825.00	7.6	1,594,670
	Add extra for above item per 0.1 kg extra in emulsion per sqm	Sqm	209825.00	2.74	574,921
4	<b>DBM</b> Providing and laying Dense Bituminous Macadam on prepared surface with specified graded crushed aggregates (as per table 500-9, 500-10 and design mix) for base/binder course including loading of material with F.E. loader, heating of binder (including cost of anti stripping compound, wherever required) aggregates and filler in hot mix plant (40-60 TPH), transporting the mixed material by tippers and laying with sensor paver finisher as per clause 504.3.5 to the required level and grade, rolling by self propelled power rollers and vibratory rollers or pneumatic tyred roller, 150-250 KN. TP=0.7 Mpa, to achieve the desired density (approved by the department) but excluding primer/tack coat. (MoRTH specification : clause 507, 112) a)50-75mm compacted thickness with 4.5% bitumen content 60/70 grade with all Lead & Lifts	Cum	20783.74	5878.15	122,169,961

5	<p><b>BC</b>  Providing and laying Bituminous Concrete as per Design Mix on prepared surface with specified graded stone aggregates as per Table 500-18, for wearing course including loading of aggregates with F.E. loader and hot mixing of binder (including cost of anti-stripping compound, wherever required) and 3% cement filler with aggregates in Hot Mix Plant 40-60 TPH, transporting the mixed material with tipper to paver and laying with sensor paver finisher (as per clause 504-3.5) to the required level, grades and rolling with vibratory compactor and pneumatic tyred roller 150-250 kN, TP = 0.7 Mpa, to achieve the desired density (approved by the department as per job mix) excluding cost of primer/tack coat. (MoRTH specification : clause 509).  30-45mm compacted with 6% binder with all Lead &amp; Lifts</p>	Cum	4012.74	7382.75	29,625,056
6	<p><b>SDBC</b>  Providing laying and consolidation Semi Dense Bituminous Concrete, as per Design Mix, on prepared surface with specified graded crushed aggregates (as per table 500-15) for wearing coarse including loading aggregates with F.E. loader, heating aggregates and binder in Hot Mix Plant 40-60 TPH (including cost of anti-stripping compound, wherever required) transporting the mixed material with tipper and laying with paver finisher with Sensor to the required level, rolling with Vibratory Compactor or 150 to 250 kN pneumatic tyred roller with TP=0.7 Mpa and power roller to achieve the desired density (as per approved job mix), but excluding primer/tack coat. (MoRTH specification: Clause 508).  25 to 30mm compacted using 5% binder including All Lead &amp; Lifts  (a) With straight run bitumen grade 60/70</p>	Cum	2498	6355.4	15,875,789
<b>Total</b>					<b>172,571,251</b>

## PART – E CULVERTS

Sr. No.	Particulars	Unit	Rate	Qty	Amount
1	2	4	5	6	7
1	Earthwork in excavation in foundation trenches etc. in drains and channels etc. not exceeding 2m depth, including dressing of bottom and sides of trenches, stacking the excavated soil 3m clear from the edge of excavation including disposal of surplus soil as directed within a lead of 1000 metres (MoRTH specification : clause 301, 304).				
	Hard soil (pick work)	cum	87	5105.57	444185
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lift and lead of 1000 metres. [MoRTH Specification: Clause 202]. BY MANUAL MEANS				
	Lime concrete, cement concrete or grade M-10 and below.	cum	179	630	112770
3	Sand <b>filling</b> and <b>compaction</b> by <b>mechanical means</b> in foundation trenches, in 150mm layers, with all lead and lift, as per drawing and technical specification, to achieve field density. [MoRTH Specification : clause 304].				
		cum	631	920.01	580526
4	Providing and laying Reinforced cement concrete pipes NP-4 for culverts including jointing ends and fixing collar with cement mortar 1:2. (MoRTH specification : clause 1000/2900).				
	1000mm dia	Mtr	4636	180.6	837262
5	Providing and laying <b>Plain Cement Concrete M-15</b> mix with stone aggregate 20mm nominal size mechanically mixed and vibrated in foundation upto a depth of 1.50 below ground level and or 1.50mtr. above ground/bed level.				
		cum	3035	2268.79	6885768
6	Providing & laying <b>Random Rubble Masonry</b> (coursed) in <b>cement sand mortar 1:3</b> in foundation upto a depth of 1.50m and also 1.50m above ground/bed level. [MoRTH Specification : Clause 1000/1400]				
		cum	2185	264.11	577080
7	Providing <b>cement plaster 12mm</b> thick in <b>cement mortar 1:3</b> at all levels (MoRTH specification : clause 1000/1300)				
		Sqm	69	483.14	33337
8	Providing and laying specified <b>apron</b> complete as per drawing and technical specification. (MoRTH specification : clause 2503)				

	Boulder/quarry stone, not less than 40 kg laid dry without wire crates (specific gravity not less than 2.65).	Sqm	544	92.841	50506
9	Providing and laying <b>pitching</b> on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and technical specifications. (MoRTH specification : Clause 2504 & 1700).				
	With R.R. stone, weighing not less than 40 kg thickness not less than 150mm (specific gravity not less than 2.65)	cum	683	466.25	318449
10	White washing of parapets kerbs railings trees boundary stone guard stones guide stones and tree guards etc. complete.				
	New surface three coats	Sqm	2.75	483.14	1329
11	Providing and laying <b>Plain Cement Concrete M-15</b> Mix with stone aggregate 20mm nominal size mechanically mixed and vibrated, in superstructure upto 4 meter above 1.50 m level from ground/bed level. [MoRTH Specification : Clause 1000/1700]	Cum	3187.00	1374.91	4381824
12	Providing and fabricating <b>Steel reinforcement</b> for RCC works including cutting, bending, placing in position and binding complete including cost of binding wire. (MoRTH specification : Clause 1000/1600). HYSD bars	Tonne	<b>42354.00</b>	31.0811	1316409
13	Structural RCC/ PSC upto a height of 5 mtr for reinforced concrete in superstructure complete including steel formwork, scaffolding etc. As per drawing and technical specification. Solid slab superstructure				
	Design mix concrete. [MoRTH Specification : 1500 & 1700]				
	RCC - 25 grade (CC Mixer)	Cum	<b>4427.00</b>	145.7995	645454
14	Reinforced cement concrete wearing coat M-30 grade at any level including formwork and reinforcement complete as per drawing and technical Specification. [MoRTH Specification : Clause 2204, 1500 & 1700].	Cum	<b>7249.00</b>	52.05	377310
15	Providing and laying <b>HYSD bar</b> reinforcement at any level in superstructure complete as per drawing and technical Specification. [MoRTH Specification : Section 1600]		<b>48931.00</b>	12.1523	594623
16	Back filling behind abutment, wing wall and return wall, in 150mm layers, with mechanical compaction, complete with all lead and lift, as per drawing and technical specification. [MoRTH Specification : Clause 304].				
	Sandy material		631.00	1510.44	953085
17	Filter medium behind abutment, wing wall and return wall, complete as per drawing and technical specification. (Same as R7.20.3) [MoRTH Specification : Clause 2504].		385.00	726.012	279514

18	Providing A.C. pipe weep holes 150 mm dia in Masonary/ plain Concrete/ Reinforced Concrete abutment, wingwall / returnwall complete as per drawing and technical specification. [ MoRTH Specification : Clause 2205]		99.00	1037.7	102732
19	Drainage spout with GI pipe 100mm dia and GI bolt 10mm dia with galvanized MS flat clamp complete as per drawing and Technical Specification		1405.00	26	36530
20	Curtain wall complete as per drawing and technical specifications. (MoRTH specification : clause 2507.2)				
	Cement concrete grade M -15		3041.00	695.213	2114143
21	Providing and fixing 20 mm thick compressible fiber board in expansion joint complete as per drawing and technical specification.		700.00	288	201600
	<b>Total</b>				<b>20844437</b>

## PART – F PROTECTION WORKS

SN	Items Description	Unit	Rate (INR)	Quantity	Amount (INR)
1	Providing and laying specified apron complete as per drawing and technical specification. (MoRTH specification: clause 2503) Boulder/quarry stone, not less than 40 kg laid dry without wire crates (specific gravity not less than 2.65).	Cum.	544	35	18822.00
2	Providing and laying graded stone aggregate filter material underneath pitching on slopes complete as per drawing and technical specification. (MoRTH specification : clause 2504).	Cum.	772	157	121034.00
3	Providing and laying pitching on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and technical specifications. (MoRTH specification : Clause 2504 & 1700). With cement concrete block size 0.3×0.3×0.3m M-15 grade, complete. (MoRTH specification : clause 2504, 1700)	Cum.	3102	176	545952.00
<b>Bill Part G : Total in Rs.</b>					<b>685,809 .00</b>

**PART – G TRAFFIC SIGN , MARKING & HORTICULTURE**

SN	Items Description	Unit	Rate (INR)	Quantity	Amount (INR)
1	Supplying cautionary/warning reflective signboard made out of 2mm thick MS sheet as per IRC-67-1977, stove enameled and reflective symbol fixed on Angle iron of size 65×65×6mm of 3 metre long.				
	90cm equilateral triangle	Each	825	30	24750
	60cm equilateral triangle	Each	715	28	20020
	80 cm x 60 cm rectangular	Each	4335	15	65025
2	Supplying Direction and place identification sign board made out of 2 mm thick M.S. sheet framed to angle iron 40x40x5 mm and two vertical posts of angle iron of size 65x65x6 mm 3 meter long with hold fasts, stove enameled paint reflective letter symbol complete of size.				
	150 x 120 cm.	Each	2530	4	10120
	90 cm. X 60 cm.	Each	1430	2	2860
3	Supply & fixing of Shevron sign of size 600x450mm made out of alluminium sheet 2mm thick with fixing provision on M.S. angle iron post 50x50x6mm, 3M. long screwed with stainless steel nut bolts of 8 M. dia, plate is covered by high intensity grade retro-reflective sheeting & black reflective arrows, complete in all respect.	Each	3300	520	1716000
4	Marking center line and stop lines etc. on road as per IRC pattern with thermoplastic paint of approved quality and make with 8% glass beads laid on the road surface at temperature 160°C with a special applicator machine complete with labour material and traffic diversion arrangements.	Sqm.	534	6342.67	3386984
5	Providing and fixing in position reinforced cement concrete M-15 Kilometer stone of standard IRC design, including painting and printing letters etc. (MoRTH specification : section 800).				
	a) 5th km stone	Nos.	756.64	3	2270
	b) Ordinary km stone	Nos.	438.08	12	5257
6	Providing and Fixing in position reinforced cement concrete 200 mtr. stone of standard IRC design, including painting and printing letters etc. (MoRTH specification : section 800).	Each	118.62	60	7117
7	Supply of hazard marker made out of 2mm thick MS angle iron 25×25×3mm and fixed on channel posts 75×75×6 mm and hold fast at bottom while body is painted in white stoving enamel and 6 nos. 5cm dia reflective sheet on white reflective background with additional border of 1.25cm all around it.	Nos.	440	45	19800

8	Providing and fixing precast cement concrete M-15 kerb as per design, including fixing at site. (MoRTH specification : section 1000 & 1700).	Mtr.	141.15	2498	352593
9	Providing and erecting a "W" metal beam crash barrier comprising of 3mm thick corrugated sheet metal beam rail, 70cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5mm spaced 2mm center to center, 1.8m high, 1.1m below ground/road level, all steel parts and fitments to be galvenised by hot dip process, all fittings to conform to IS: 1367 and IS: 1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5mm, 330mm long complete as per MoRTH specification Clause 810.	RMtr.	2261	520	1175720
10	P&F delineator with 30cm outer dia RCC hume pipe NP-2 (as per IS : 458/1971) pipe 1 cm long 40cm embedded in cement concrete (1:4:8) block of size 50×50×40 cm including excavation upto 40cm depth the inside of pipe shall be filled with CC (1:4:8) stone grid max. size 20mm or less upto the top with semi circular humping. The pipes shall be painted white/black with enamel paint with red dots two nos. on each side.	Each	471	1020	480420
11	Plants and shrubs in central verge where verge is less than 3.0 metres with one row of 400 shrubs and 100 tree plants in one km				
	Planting plants and shrubs	Mtr.	15	15000	225000
	Maintenance of plants an shrubs for one year	Mtr.	33.5	15000	502500
12	Providing and fixing of precast concrete interlocking blocks of 60mm thick manufactured from fully computerized automatic stationery hydraulic vibto pressed machine & full computerized automatic batching plant of class A-I as per BS: 6717-2001. The CC int	Sqm.	294.8	16102	4746870
<b>Bill Part H : Total in Rs.</b>					<b>12,743,305</b>

## Schedule – ‘H’

SN	Items Description	Unit	Qty.	Rate to be Quoted by the Contractor	Amt.
1	Planting of Trees and their Maintenance for one Year (Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year)	Each	1,000		
2	Carrying out confirmatory bores up to required depths at each foundation location of bridge complete in all respects including testing as per Technical Specifications Section 2400 and interpretation of the bore data and presentation of the results as per technical specifications.				
	i. Depth between 0 m to 10 m	Mtr.	25		
3	Structural steel work welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete above plinth level up to 4.5 Mtr. height in R.S. Joists flats, tees, angles and channels.	Kg.	1210		
4	Lighting for Toll Plaza Including High Mask Light	Nos	20		
5	Boring for Tubewell (200 mm dia) including casing, well cap & lowering of pipe upto 20 m,	M	25		
6	Providing and laying Reinforced cement concrete pipes NP-3 for culverts including jointing ends and fixing collar with cement mortar 1:2. (MoRTH specification : clause 1000/2900). 600 MM Dia	M	125		
7	Providing and laying Reinforced cement concrete pipes NP-3 for culverts including jointing ends and fixing collar with cement mortar 1:2. (MoRTH specification : clause 1000/2900). 300 MM Dia	M	175		
		<b>TOTAL</b>	<b>Rs.</b>		

BID SECURITY (BANK GUARANTEE)

WHEREAS, \_\_\_\_\_ [name of Bidder] (hereinafter called 'the Bidder') has submitted his Bid dated \_\_\_\_\_ [date] for the construction of

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [name of Contract hereinafter called 'the Bid']].

KNOW ALL PEOPLE by these presents that We \_\_\_\_\_ [name of Bank] of [name of country] having our registered office at \_\_\_\_\_ (hereinafter called 'the Bank') are bound unto \_\_\_\_\_ [name of Employer] (hereinafter called 'the Employer') in the sum of \_\_\_\_\_ \* for which payment well and truly to be made to the said Employer the Bank itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

THE CONDITIONS of this obligation are:

(1) If after Bid opening the Bidder withdraws his bid during the period of Bid validity specified in the Form of Bid;

OR

(2) If the Bidder having been notified to the acceptance of his bid by the Employer during the period of Bid validity:

- (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
- (b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidders; or
- (c) does not accept the correction of the Bid Price pursuant to Clause 27.

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

This Guarantee will remain in force up to and including the date \_\_\_\_\_ \*\* days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer's Representative, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date.

DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_  
WITNESS \_\_\_\_\_ SEAL \_\_\_\_\_

[Signature, name and address]

\* The Bidder should insert the amount of the guarantee in words and figures denominated in Indian Rupees. This figure should be the same as shown in Clause 16.1 of the Instructions to Bidders.

\*\* 30 days after the end of the validity period of the Bid. Date should be inserted by the Employer before the Bidding documents are issued.

## PERFORMANCE BANK GUARANTEE

To

\_\_\_\_\_ [name of Employer]  
\_\_\_\_\_ [address of Employer]  
\_\_\_\_\_

WHEREAS \_\_\_\_\_ [name and address of Contractor] (hereafter called 'the Contractor') has undertaken, in pursuance of Contract No. \_\_\_\_\_ dated \_\_\_\_\_ to execute \_\_\_\_\_ [name of Contract and brief description of Works] (hereinafter called 'the Contract').

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligation in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you on behalf of the Contractor, up to a total of \_\_\_\_\_ [amount of guarantee] \_\_\_\_\_ \*(in words), such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of \_\_\_\_\_ [amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the contractor before presenting us with the demand.

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 your 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.

This guarantee shall be valid until 28 days from the date of expiry of the Maintenance Period.

Signature and Seal of the guarantor \_\_\_\_\_  
Name of Bank \_\_\_\_\_  
Address \_\_\_\_\_  
Date \_\_\_\_\_

---

\*An amount shall be inserted by the Guarantor, representing the percentage the Contract Price specified in the Contract including additional performance security for unbalanced Bids, if any and denominated in Indian Rupees.

## Letter of Acceptance

(Letterhead paper of the Employer)

\_\_\_\_\_ (Date)

To

\_\_\_\_\_ (Name and address of the Contractor)

\_\_\_\_\_  
\_\_\_\_\_

Dear Sirs,

This is to notify you that your Bid dated \_\_\_\_\_ for execution of the \_\_\_\_\_ (name of the contract and identification number, as given in the Instructions to Bidders) for the Contract Price of Rupees \_\_\_\_\_ ( \_\_\_\_\_ ) (amount in words and figures), as corrected and modified in accordance with the Instructions to Bidders) is hereby accepted by our agency.

You are hereby requested to furnish Performance Security, in the form detailed in Para 34.1 of **ITB** for an amount equivalent to Rs. \_\_\_\_\_ within 15 days of the receipt of this letter of acceptance valid up to 28 days from the date of expiry of defects Liability Period i.e. up to and sign the contract, failing which action as stated in Para 34.3 of **ITB** will be taken.

Yours faithfully,

Authorized Signature  
Name and title of Signatory  
Name of Agency

- 
1. Delete 'corrected and' or 'and modified' if only one of these actions applies. Delete as corrected and modified in accordance with the Instructions to Bidders, if corrections or modifications have not been affected.
  2. To be used only if the Contractor disagrees in his Bid with the Adjudicator proposed by the Employer in the 'Instructions to Bidders'.

## **Agreement Form**

This agreement, made the \_\_\_\_\_ day of \_\_\_\_\_ between \_\_\_\_\_ (name and address of Employer) [hereinafter called 'the Employer'] and \_\_\_\_\_ (name and address of contractor) hereinafter called 'the Contractor' of the other part.

Whereas the Employer is desirous that the Contractor execute

\_\_\_\_\_ (name and identification number of Contract) (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 cost of Rs. \_\_\_\_\_

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
4. The following documents shall be deemed to form and be ready and construed as part of this Agreement viz.
  - i) Letter of Acceptance
  - ii) Notice to proceed with the works;
  - iii) Contractor's Bid
  - iv) Condition of Contract: General and Special
  - v) Contract Data
  - vi) Additional condition
  - vii) Drawings
  - viii) Bill of Quantities and
  - ix) Any other documents -listed in the Contract Data as forming part of the Contract.
  - (x) Joint Venture Agreement.

In witnessed whereof the parties there to have caused this Agreement to be executed the day and year first before written.

The Common Seal of \_\_\_\_\_

was hereunto affixed in the presence of :

Signed, Sealed and Delivered by the said \_\_\_\_\_

\_\_\_\_\_

in the presence of :

Binding Signature of Employer \_\_\_\_\_

Binding Signature of Contractor \_\_\_\_\_

**Annex-II  
(Maintenance Manual)**

**Repair/ rectification of Defects and Deficiencies**

The Contractor shall repair and rectify the defects and deficiencies specified in the Annex-I of schedule within the time limit set forth herein.

<b>Nature of defect of deficiency</b>	<b>Time limit for repair/rectification</b>
<b>ROADS</b>	
<b>(a) Carriageway and paved shoulders</b>	
(i) Breach or blockade	Temporary Restoration of traffic within 24 hours; permanent restoration within 15 days
(ii) Roughness value exceeding 2,750 mm in a stretch (as measured by standardized roughometer/bump integrator)	- 180 days of 1 km
(iii) Pot holes	- 48 hours
(iv) Cracking in more than 5 % of road surface in a stretch of 1 km	30 days
(v) Rutting exceeding 10 mm in more than 2 % of road in a stretch of 1 km (measured with 3 m straight edge)	30 days surface
(vi) Bleeding/skidding	7 days
(vii) Raveling/Stripping of Bitumen surface exceeding 10 sq in-	15 days
(viii) Damage to pavement edges exceeding 10 cm	15 days
(ix) Removal of debris	6 hours
<b>(b) Hard/Earth shoulders, side slopes, drains and culverts</b>	
(i) Variation by more than 2% in prescribed slope of camber/cross fall	-30 days the

- (ii) Edge drop at shoulders exceeding 40 mm – 7 days
- (iii) Variation by more than 15 %  
prescribed side(embankment) slopes -30days in the
- (iv) Rain cuts / gullies in slope -7 days
- (v) Damage to or silting of culverts and side  
during the immediately preceding rainy season -7 days drains
- (vi) Desilting of drains in urban/ semi- urban areas -48 hours

**(c) Road side furniture including road signs and pavement marking**

- (i) Damage to shape or position;  
visibility or loss of retro–reflectivity -48 hours poor

**(d) Trees and plantation**

- (i)Obstruction in a minimum head- room of 5 m  
carriage- way obstruction in visibility of  
road signs -24 hours above
- (ii)Deterioration in health of trees and bushes – Timely watering and  
treatment
- (iii) Replacement of dead trees and bushes - 90 days
- (iv) Removal of vegetation affecting sight line and  
structures -15 days road

**(e) Other Project Facilities and Approach roads**

- (i) Damage or deterioration in Approach Roads,  
Pedestrian facilities, truck lay- bys, bus -bys,  
bus- shelters, cattle crossings, Traffic Aid Posts,  
Medical Aid Posts and other works 15 days

**BRIDGES**

**(a) Superstructures of bridges.**

- (i) Cracks  
Temporary measures -within 48 hours  
Permanent measures – within 45 days
- (ii) Spalling/Scaling -15 days

**(b) Foundation of bridges**

(i) Scouring and/ or cavitation	-15 days
<b>(c) Piers, abutments, return walls and wing walls bridges.</b>	
(i) Cracks and damages including settlement and tilting	- 30 days
<b>(d) Bearings (metallic) of bridges.</b>	
(i) Deformation	-15 days
<b>(e) Joints in bridges.</b>	
(i) Loosening and malfunction of joints	-15 days
<b>(f) Other items relating to bridges.</b>	
(i) Deforming of pads in electrometric bearings	- 7 days
(ii) Gathering of dirt in bearings and joints; or Clogging of spouts, weep holes and vent	- 3 days
(iii) Damages or deterioration in parapets and handrails	-3 days
(iv) Rain-cuts or erosion of banks of the side slopes of approaches-	15 days
(v) Damages to wearing coat	- 15 days
(vi) Damage of deterioration in approach slabs. Pitching, apron, toes, floor or guide bunds.	- 30 days
(vii) Growth of vegetation affecting the structures of Obstruction the waterway.	- 15 days