

HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED



REQUEST FOR PROPOSAL (RFP) DOCUMENT

FOR

CONTRACT: HRIDC/HAKET-57/2019

“Providing consultancy services to conduct (i) Feasibility Study (FS), preparation of detailed estimate and Final Location Survey (FLS), in connection with new electrified BG rail line from Hisar Airport to existing Raipur Haryana station on Jakhal-Hisar railway Line. (ii) Feasibility Study and preparation of detailed estimate & Final Location Survey in connection with Elevated Railway Line in Kaithal city on existing Narwana-Kurukshetra railway line.”

JANUARY 2019

HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

Corporate Office: Bay no 13-14, Sector 2, Panchkula.

Website:

www.hridc.co.in

<https://haryanaeprocurement.gov.in>

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SECTION- I: Notice Inviting Tender

The Haryana Rail Infrastructure Development Corporation invites on line bids from eligible bidders on the website: <https://haryanaeprocurement.gov.in> for the works as detailed in the table. e-Tender is invited for below mentioned work in single stage two cover system i.e. for Technical Bid (online Bid under PQQ/ Technical Envelope) and Financial Bid (comprising of price bid Proposal under online available Commercial Envelope):-

Sr. No	Name of work	Approx Cost	Completion Period	EMD	Cost of Tender Document	E-Service Fees
1.	<i>“Providing consultancy services to conduct (i) Feasibility Study (FS), preparation of detailed estimate and Final Location Survey (FLS), in connection with new electrified BG rail line from Hisar Airport to existing Raipur Haryana station on Jakhal-Hisar railway Line. (ii) Feasibility Study and preparation of detailed estimate & Final Location Survey in connection with Elevated Railway Line in Kaithal city on existing Narwana-Kurukshetra railway line.”</i>	Rs.18.96 lacs	12 Weeks	Rs. 40000/-	Rs.10000/-	Rs. 1000/-

Under this process, the Pre-qualification/ Technical online bid Application as well as online Price Bid shall be invited at single stage under two covers i.e. PQQ/Technical & Commercial Envelope. Eligibility and qualification of the Applicant will be first examined based on the details submitted online under first cover (PQQ or Technical) with respect to eligibility and qualification criteria prescribed in this Tender document. The Price Bid under the second cover shall be opened for only those Applicants whose PQQ/ Technical Applications are responsive to eligibility and qualifications requirements as per Tender document.

The payment for Tender Document Fee and e-Service Fee shall be made by eligible bidders online directly through Debit Cards & Internet Banking Accounts and the payment for EMD can be made online directly through RTGS/NEFT Please refer to ‘Online Payment Guideline’ available at the Single e-Procurement portal of GoH (Govt. of Haryana) and also mentioned under the Tender Document.

Intending bidders will be mandatorily required to online sign-up (create user account) on the website <https://haryanaeprocurement.gov.in> to be eligible to participate in the e-Tender. He/She will be required to make online payment of above mentioned EMD fee. The intended bidder, who fails to pay EMD fee under the stipulated time frame, shall not be allowed to submit his / her bids for the respective event / Tenders. The tenderer should refer to **Annexure to NIT** for instructions regarding Electronic Tendering System.

The interested bidders must remit the funds at least T+1 working day (Transaction day + One working Day); and make payment via RTGS /NEFT to the beneficiary account number specified under the online generated challan. The intended bidder / Agency thereafter will be able to successfully verify their payment online, and submit their bids on or before the expiry date & time of the respective events/Tenders at <https://haryanaeprocurement.gov.in>.

The interested bidders shall have to pay mandatorily e-Service fee (under document fee – Non refundable) of Rs.1000/- (Rupee One Thousand Only) online by using the service of secure electronic gateway.

The contractual Agencies can submit their tender documents as per the dates mentioned in the key dates schedule.

Key Dates Schedule

Sr. No.	HRIDC Stage	Consultant Stage	Start date and time	Expiry Date and Time
1.	Release of tender	--	04.02.2019 and 5:00 PM	25.02.2019 upto 3:00 PM
2.		Tender Document Download and Bid Preparation and submission	04.02.2019 and 5:00 PM	25.02.2019 upto 3:00 PM
3	Technical Opening	--	25.02.2019 from 3:00 PM to 5:00 PM	
4	Technical Evaluation	--		
5	Opening of Financial Bid	--	Date will be separately intimated to the eligible bidders.	

Important Notes:

- 1) The Applicants/bidders have to complete ‘Application / Bid Preparation & Submission’ stage on scheduled time as mentioned above. If any Applicant / bidder fails to complete his / her aforesaid stage in the stipulated online time schedule for this stage, his / her Application/bid status will be considered as ‘Applications / bids not submitted’.

- 2) Applicant/Bidder must confirm & check his/her Application/bid status after completion of his/her all activities for e-bidding.
- 3) Applicant/Bidder can rework on his/her bids even after completion of 'Application/Bid Preparation & submission stage' (Application/Bidder Stage), subject to the condition that the rework must take place during the stipulated time frame of the Applicant/Bidder Stage.
- 4) In the first instance, the online payment details of tender document fee + e-Service and EMD & PQQ/Technical Envelope shall be opened. Henceforth financial bid quoted against each of the item by the shortlisted bidder/ Agency wherever required shall be opened online in the presence of such bidders/ Agency who either themselves or through their representatives choose to be present. The bidder can submit their bids online as per the dates mentioned in the schedule/Key Dates above.

The bids shall be submitted online in two separate envelopes:

Envelope 1: Technical Bid

The bidders shall upload the documents Online as per **Annexure-II** of Instructions to Bidders in the Technical Bid.

Envelope 2: Commercial Bid

The bidders shall quote the prices as per BOQ in price bid format under Commercial Bid.

In case financial bid is submitted but EMD has not been submitted by any bidder, then bidder would be debarred from further tendering in HRIDC for a period of minimum 3 years.

CONDITONS:-

- 1) DNIT & Prequalification criteria can be seen on website and also on any working day during office hours in office of the undersigned.
- 2) Conditional tenders will not be entertained & are liable to be rejected.
- 3) In case the day of opening of tenders happens to be holiday, the tenders will be opened on the next working day. The time and place of receipt of tenders and other conditions will remain unchanged.
- 4) The undersigned reserve the right to reject any tender or all the tenders without assigning any reason.
- 5) The tender without EMD will not be opened.
- 6) The jurisdiction of court will be at Panchkula/ Chandigarh.
- 7) The tender of the bidder who does not satisfy the qualification criteria in the bid documents are liable to be rejected without assigning any reason and no claim whatsoever on this account will be considered.

- 8) The bid for the work shall remain open for acceptance during the bid validity period to be reckoned from the last date of 'submission of online tender / bid. If any bidder/ tenderer withdraws his bid/ tender before the said period or makes any modifications in the terms and conditions of the bid, the said earnest money shall stand forfeited. Bids would require being valid for 90 days from the date of bid. In case the last day to accept the tender happens to be holiday, validity to accept tender will be the next working day.

**DGM (Project),
HRIDC**

1. INSTRUCTIONS REGARDING ELECTRONIC TENDERING SYSTEM

1.1. Registration of bidders on e-Procurement Portal:-

All the bidders intending to participate in the tenders process online are required to get registered on the centralized e - Procurement Portal i.e. <https://haryanaeprocurement.gov.in>
Please visit the website for more details.

1.2. Obtaining a Digital Certificate:

1.2.1. The Bids submitted online should be encrypted and signed electronically with a Digital Certificate to establish the identity of the bidder bidding online. These Digital Certificates are issued by an Approved Certifying Authority, by the Controller of Certifying Authorities, Government of India.

1.2.2. A Digital Certificate is issued upon receipt of mandatory identity (i.e. Applicant's PAN Card) and Address proofs and verification form duly attested by the Bank Manager / Post Master / Gazetted Officer. Only upon the receipt of the required documents, a digital certificate can be issued. For more details please visit the website – <https://haryanaeprocurement.gov.in>.

1.2.3. The bidders may obtain Class-II or III digital signature certificate from any Certifying Authority or Sub-certifying Authority authorized by the Controller of Certifying Authorities or may obtain information and application format and documents required for the issue of digital certificate from.

1.2.4. The bidder must ensure that he/she comply by the online available important guidelines at the portal <https://haryanaeprocurement.gov.in> for Digital Signature Certificate (DSC) including the e-Token carrying DSCs.

1.2.5. Bid for a particular tender must be submitted online using the digital certificate (Encryption & Signing), which is used to encrypt and sign the data during the stage of bid preparation. In case, during the process of a particular tender, the user loses his digital certificate (due to virus attack, hardware problem, operating system or any other problem) he will not be able to submit the bid online. Hence, the users are advised to keep a backup

of the certificate and also keep the copies at safe place under proper security (for its use in case of emergencies).

1.2.6. In case of online tendering, if the digital certificate issued to the authorized user of a firm is used for signing and submitting a bid, it will be considered equivalent to a no-objection certificate /power of attorney / lawful authorization to that User. The firm has to authorize a specific individual through an authorization certificate signed by all partners to use the digital certificate as per Indian Information Technology Act 2000. Unless the certificates are revoked, it will be assumed to represent adequate authority of the user to bid on behalf of the firm in the department tenders as per Information Technology Act 2000. The digital signature of this authorized user will be binding on the firm.

1.2.7. In case of any change in the authorization, it shall be the responsibility of management / partners of the firm to inform the certifying authority about the change and to obtain the digital signatures of the new person / user on behalf of the firm / company. The procedure for application of a digital certificate however will remain the same for the new user.

1.2.8. The same procedure holds true for the authorized users in a private/Public limited company. In this case, the authorization certificate will have to be signed by the directors of the company.

1.3. Pre-requisites for online bidding:

In order to operate on the electronic tender management system, a user's machine is required to be set up. A help file on system setup/Pre-requisite can be obtained from Nextenders (India) Pvt. Ltd. or downloaded from the home page of the website - <https://haryanaeprocurement.gov.in>. The link for downloading required java applet & DC setup are also available on the Home page of the e-tendering Portal.

1.4. Online Viewing of Detailed Notice Inviting Tenders:

The bidders can view the detailed N.I.T and the time schedule (Key Dates) for all the tenders floated through the single portal e-Procurement system on the Home Page at <https://haryanaeprocurement.gov.in>.

1.5. Download of Tender Documents:

The tender documents can be downloaded from the e-Procurement portal <https://haryanaeprocurement.gov.in>

1.6. Key Dates:

The bidders are strictly advised to follow dates and times as indicated in the online Notice Inviting Tenders. The date and time shall be binding on all bidders. All online activities are time tracked and the system enforces time locks that ensure that no activity or transaction can take place outside the start and end dates and the time of the stage as defined in the online Notice Inviting Tenders.

1.7. Online Payment of Tender Document Fee, eService fee , EMD fees & Bid Preparation & Submission (PQQ/ Technical & Commercial/Price Bid):

i) Online Payment of Tender Document Fee + e-Service fee:

The online payment for Tender document fee, eService Fee & EMD can be done using the secure electronic payment gateway. The Payment for Tender Document Fee and eService Fee shall be made by bidders/ Vendors online directly through Debit Cards & Internet Banking Accounts and the Payment for EMD shall be made online directly through RTGS / NEFT. The secure electronic payments gateway is an online interface between contractors and Debit card / online payment authorization networks.

ii) Preparation & Submission of online Applications/Bids:

Detailed Tender documents may be downloaded from e-procurement website (<https://haryanaeprocurement.gov.in>) and tender mandatorily be submitted online.

Scan copy of Documents to be submitted/uploaded for Prequalification or Technical bid under online PQQ/ Technical Envelope: The required documents (refer to DNIT) shall be prepared and scanned in different file formats (in PDF /JPEG/MS WORD format such that file size is not exceed more than 10 MB) and uploaded during the on-line submission of PQQ or Technical Envelope.

Financial or Price Bid Proposal shall be submitted mandatorily online under Commercial Envelope and original not to be submitted manually)

1.8. Assistance to the Bidders:-

In case of any query regarding process of etenders and for undertaking training purpose, the intended bidder can also avail the following and can contact service provider as per below:

Office Timings of Help-desk support for Single e Procurement Portal of Government of Haryana

Technical Support Assistance will be available over telephone on Monday to Friday between 09:00 am. to 5:30 pm.

Important Note:-

All queries would require to be registered at our official email- chandigarh@nextenders.com for on-time support. (Only those queries which are sent through email along with appropriate screenshots or error description will be considered as registered with the Help-desk). Contact our helpdesk on or before prior to 4 hours of the scheduled closing date & time of respective e-Auction/ Tender event. For queries pertaining to ePayment of EMD, please contact the helpdesk at least 2 business days prior to the closing date & time of eAuction/Tender event.

Help-desk support will remain closed during lunch break i.e. from 1:30 PM up to 2:15 PM on each working day.

Office Address for Training workshop on 1st, 2nd Wednesday, Timing (from 3:30 pm up to 5:00 pm) of each month		
Nextenders India Pvt.Ltd Municipal Corporation Faridabad Near B.K.Chowk, Opp. B.K.Hospital NIT, Faridabad Contact no.- +91-9310335475	Nextenders India Pvt.Ltd Public Health Division No 2 Hisar, Model Town, Opp. N.D Gupta Hospital, Hisar Contact: +91- 9034357793	Nextenders (India) Pvt. Ltd. Nirman Sadan (PWD B&R) Plot No.- 01, Basement, Dakshin Marg, Sec- 33 A, Chandigarh -160020 For Support- 1800-180-2097, 0172-2582008-2009

Office will remain closed on Saturday, Sunday and National Holidays.

Help Desk contact details for Saturday and Sunday are as hereunder for escalation level - 1.

1.Mr.Lalit Saini – +91- 9034357793

Email – chandigarh@nextenders.com

Timings- 9:00 am to 5:30 pm

2.Mr. Tinku Singh - +91- 9310335475

Email – chandigarh@nextenders.com

Timings- 9:00 am to 5:30 pm

NOTE:- Bidders participating in online tenders shall check the validity of his/her Digital Signature Certificate before participating in the online Tenders at the portal <https://haryanaeprocurement.gov.in>.

For help manual please refer to the 'Home Page' of the e-Procurement website at <https://haryanaeprocurement.gov.in>, and click on the available link 'How to...?' to download the file.

Guideline for Online Payments in e-tendering

Post registration, bidder shall proceed for bidding by using both his digital certificates (one each for encryption and signing). Bidder shall proceed to select the tender he is interested in. On the respective Department's page in the e-tendering portal, the Bidder would have following options to make payment for tender document & EMD:

A. Debit Card

B. Net Banking

C. RTGS/NEFT

Operative Procedures for Bidder Payments

A. Debit Card

- i. The procedure for paying through Debit Card will be as follows.
- ii. Bidder selects Debit Card option in e-Procurement portal.
- iii. The e-Procurement portal displays the amount and the card charges to be paid by bidder. The portal also displays the total amount to be paid by the bidder.
- iv. Bidder clicks on “Continue” button
- v. The e-Procurement portal takes the bidder to Debit Card payment gateway screen.
- vi. Bidder enters card credentials and confirms payment
- vii. The gateway verifies the credentials and confirms with “successful” or “failure” message, which is confirmed back to e-Procurement portal.
- viii. The page is automatically routed back to e-Procurement portal
- ix. The status of the payment is displayed as “successful” in e-Procurement portal. The e-Procurement portal also generates a receipt for all successful transactions. The bidder can take a print out of the same,
- x. The e-Procurement portal allows Bidder to process another payment attempt in case payments are not successful for previous attempt.

B. Net Banking

The procedure for paying through Net Banking will be as follows.

- i. Bidder selects Net Banking option in e-Procurement portal.
- ii. The e-Procurement portal displays the amount to be paid by bidder.
- iii. Bidder clicks on “Continue” button
- iv. The e-Procurement portal takes the bidder to Net Banking payment gateway screen displaying list of Banks.
- v. Bidder chooses his / her Bank
- vi. The Net Banking gateway redirects Bidder to the Net Banking page of the selected Bank
- vii. Bidder enters his account credentials and confirms payment.
- viii. The Bank verifies the credentials and confirms with “successful” or “failure” message to the Net Banking gateway which is confirmed back to e-Procurement portal.
- ix. The page is automatically routed back to e-Procurement portal
- x. The status of the payment is displayed as “successful” in e-Procurement portal.
- xi. The e-Procurement portal also generates a receipt for all successful transactions. The bidder can take a print out of the same.
- xii. The e-Procurement portal allows Bidder to process another payment attempt in case payments are not successful for previous attempt.

C. RTGS/ NEFT

The bidder shall have the option to make the EMD payment via RTGS/ NEFT. Using this module, bidder would be able to pay from their existing Bank account through RTGS/NEFT. This would offer a wide reach for more than 90,000 bank branches and would enable the bidder to make the payment from almost any bank branch across India.

- i.** Bidder shall log into the client e-procurement portal using user id and password as per existing process and selects the RTGS/NEFT payment option.
- ii.** Upon doing so, the e-procurement portal shall generate a pre-filled challan. The challan will have all the detail that is required by the bidder to make RTGS-NEFT payment.
- iii.** Each challan shall therefore include the following details that will be pre-populated:

Beneficiary account no: (unique alphanumeric code for e-tendering)

Beneficiary IFSC Code:

Amount:

Beneficiary bank branch:

Beneficiary name:

- iv.** The Bidder shall be required to take a print of this challan and make the RTGS/NEFT on the basis of the details printed on the challan.
- v.** The bidder would remit the funds at least T + 1 day (Transaction + One day) in advance to the last day and make the payment via RTGS / NEFT to the beneficiary account number as mentioned in the challan.
- vi.** Post making the payment, the bidder would login to the e-Tendering portal and go to the payment page. On clicking the RTGS / NEFT mode of payment, there would be a link for real time validation. On clicking the same, system would do auto validation of the payment made.

Sr no.	Scenario	Do's / Don'ts
1	In the event of making Payment through NEFT/RTGS	<p>Do's</p> <ul style="list-style-type: none"> • It is the bidder's responsibility to ensure that RTGS/NEFT payments are made to the exact details as mentioned in the challan which are: <ol style="list-style-type: none"> 1) Beneficiary account no: <client code> + <random number> 2) Beneficiary IFSC Code: As prescribed by ICICI Bank (this shall remain same across all tenders) 3) Amount: As mentioned on the challan. It is specific for every tender/transaction 4) Beneficiary bank branch: ICICI Bank Ltd, CMS 5) Beneficiary name: As per the challan • For every tender, details in the challan are different and specific to that tender only. Bidder should not make use of a challan for making payment for another tenders' EMD • It is advised that all the bidders make payment via RTGS/NEFT at least one day in advance to the last day of tender submission as certain amount of time is required for settlement and various parties are involved. The payment may not be available for the bidder validation. In such cases bidder may not be able to submit the tender • Bidder has to make only single payment against a challan as per the amount mentioned on the challan. • Bidder must do the payment before tender validity gets expired
		<p>Don'ts</p> <ul style="list-style-type: none"> • Bidder should not enter erroneous details while filling the NEFT / RTGS form at their bank. The following possibilities may arise: <ol style="list-style-type: none"> 1) Incorrect IFSC code mentioned:- Transaction would be rejected and the amount would be refunded back in to the bidders account 2) Incorrect Beneficiary account number mentioned(<client code> + <random number>):- <ol style="list-style-type: none"> a) In case, the beneficiary account number mentioned is incorrect the transaction would be rejected and the bid would not be accepted. 3) Incorrect Amount mentioned: The amount would be rejected if the amount mentioned in while making the payment is incorrect. Such cases will be captured as unreconciled transactions and will be auto-refunded directly to bidder's account. <p>In the event of any discrepancy, payment would not be considered and bidder would not be allowed to bid/ participate.</p> • Bidder is not supposed to use challan generated in one tender for payment against another tender since details in the challan are unique to the tender and bidder combination. • Bidder must not make multiple or split payments against a particular challan. Any split payment received against the same challan will be refunded back to the bidder. • Bidder would not be entitled to claim that he is deprived of participating in the tender because his funds are blocked with the division on account of incorrect payment made by the bidder

SECTION II: FORM OF BID

To,

Managing Director,

Haryana Rail Infrastructure Development Corporation Limited,

Bay No. 13-14, Sector-2,

Panchkula

e-mail: hridc2017@gmail.com

Dear Sir,

I/We, _____ (*Name and address of the tenderer*) have read the various terms and conditions of the **Tender documents** attached here with duly signed by me/us and agree to abide by the same. I/We also agree to keep this bid open for acceptance for a period of 90 days from the date fixed for opening the same and on default thereof our Earnest Money (Bid Security) is liable to be forfeited.

I/We hereby declare that we have visited the site of the work and have made ourselves fully conversant of the conditions therein and including the topography of area, soil strata at site of work, sources and availability of construction materials, rates of construction materials, water, electricity, all local taxes, royalties, octroi etc., availability of local labour (both skilled and unskilled), relevant labour rates and labour laws, the existing road and approaches to the site of work, requirements for further service roads/approaches to be constructed by me / us, the availability and rates of private land etc. that may be required by me / us for various purposes, climatic conditions, law and order situation and availability of working days.

I/We have quoted our rates for various items in the Bill of Quantities taking into account all the above factors and We offer to do the work “_____” (*Name of the work*) at the rates quoted in the attached Bill of Quantities and hereby bind ourselves to complete the work in all respects within time schedule depicted in bid documents from the date of issue of letter of acceptance of bid.

A sum of ₹. _____ (Rupees _____) (*amount of Earnest Money Deposit*) has been deposited as Bid Security. I/We understand that the full value of the Bid Security shall stand forfeited without prejudice to any other rights and remedies available to HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED in case our bid is accepted and if:-

- i) I/We do not execute the Contract Agreement within time period specified in the bid documents.
- ii) I/We do not commence the work as soon as is reasonably possible after the receipt of the Letter of Acceptance or elsewhere stated in the Contract documents.

I/We also understand that until a formal Contract Agreement is executed, Letter of Acceptance along with all bid documents shall constitute a binding contract between me/us and Haryana Rail Infrastructure Development Corporation Limited.

Our bank account no. for the purpose of refund of EMD is (Account no./ name of the A/c holder, other details of NEFT/RTGS).

Thanking you,

Yours Faithfully,

Signature_____ in capacity of_____ duly authorized to sign bids for and on behalf of:

_____ (In Block capital letters)

Date this_____ day of _____ 2019.

SECTION III: INSTRUCTIONS TO BIDDER

A. General

1) GENERAL

i. Name of the Work: As indicated in 'Appendix to Tender'.

ii. "A bidder in the capacity of Individual or Sole Proprietor, Partnership Firm or Company can participate in the tender and forward attested copies of the constitution of its firm such as Partnership Deed, Memorandum & Articles of Association, etc. along with original Power of Attorney of authorised signatory".

iii. The work is proposed to be executed under the following relationship:

- a) **Client/Employer:** HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED address as given in 'Appendix to Tender'.
- b) **Consultant:** The successful Bidder to whom the work is awarded shall become the Consultant for the execution of this work.
- c) **Engineer or Engineer -in- Charge:** Means the Project Head of HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED (Employer) or any other officer authorized by the Employer to act on his behalf and for the purpose of operating the contract.
- d) **Engineer's Representative:** Means any official nominated from time to time by the Engineer to act on his behalf.
- e) **Contract:** Means a signed Agreement between the successful bidder and the Client.

iv. Joint Ventures (JVs) are not allowed to participate.

v. Throughout these bidding documents, the terms "bid" and "tender" and their derivatives ("bidder"/ "Bidder"), "bid/tendered", "bidding"/ "tendering", etc.) are synonymous. Day means calendar day. Singular also means plural.

vi. Scope of Work:

- a) The scope of work/contract described in "Terms of Reference of Section-VI" in detail. Any other incidental / ancillary Works required in connection with completion of the above as directed by HRIDC/Engineer.
- b) Approximate Estimated cost of the work is as indicated in the 'Appendix to Tender.'
- c) A bidder shall submit only one bid in the capacity of an Individual or Sole Proprietor, Partnership firm or a Company. Violation of this condition is liable to

disqualify the tenders in which such bidder has participated and EMD of all such Bidders shall stand forfeited.

2) Cost of bidding

The bidder shall bear all costs associated with the preparation and submission of the bid and the Employer will in no case be responsible or liable for these costs regardless of the conduct or the outcome of the bidding process.

B. The Bidding Documents

Any Bid not conforming to the prescribed format is liable to be declared non-responsive.

3) Content of bidding document

- i. The bidding documents include the following:
 - a) Notice Inviting Tender
 - b) Form of Bid
 - c) Instructions to Bidders
 - d) Appendix to Bid
 - e) Special Conditions of Contract
 - f) Terms of reference (TOR)
 - g) Certificate of Familiarization
 - h) Schedule of Quantities/ Bill of Quantities
- ii. The bidder is expected to examine all instructions, terms, conditions, forms, specifications and other information in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the bidders' risk and may result in rejection of his bid.

4) Understanding and Amendment of Tender Documents

- i. The bidder must obtain for itself on its own responsibility and its own cost all the information including risks, contingencies & other circumstances in execution of the work. It shall also carefully read and understand all its obligations & liabilities given in tender documents.
- ii. The bidder is advised to visit and examine the site where the work is to be executed and its surroundings or other areas as deemed fit by the bidder and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and execution of the contract. The cost of visiting the site and collecting relevant data shall be at the bidder's own expenses. It is a condition of the tender that the Bidder is deemed to have visited the site and satisfied him-self with all the conditions prevailing including any difficulties for executing the work.

- iii. At any time prior to the deadline for submission of bids, Employer may for any reason whether at its own initiative or in response to any request by any prospective bidder amend the bidding documents by issuing Corrigendum, which shall be part of the Tender documents. The amendment shall be advised to all the prospective bidders.
- iv. Employer may at its discretion extend the deadline for submission of the bids at any time before the time of submission of the bids.

C. Preparation of Bid

5) **Language of Bid**

- i. The bid prepared by the bidder and all documents related to the bid shall be written in English.

6) **Signing of All Bid papers and Completing Bill of Quantities**

- i. All the pages of the tender documents, drawings and Bill of Quantities uploaded by tenderer shall be deemed to have been signed by the tenderer.
- ii. The tenderer must fill and submit the prices as per instructions given in Bill of Quantities. The requisite details should be filled in by the tenderer wherever required in the documents. Incomplete tender or tender not submitted as per instructions is liable to be rejected. Check list for the documents required to be submitted online given in Annexure- II must be uploaded not later than the prescribed date and time for bid submission.

7) **Deviations**

- i. The bidder should clearly read and understand all the terms and condition, specifications, drawings, etc. mentioned in the original tender documents.
Any deviation submitted by the Bidder shall not be accepted.

8) **Earnest Money**

- i. The bidder must furnish the Earnest Money as indicated in 'Appendix to Tender' for the work as specified failing which the tender shall be summarily rejected. The Earnest Money has to be deposited online as mentioned in DNIT.
- ii. Forfeiture of Earnest Money:
 - a) The Earnest Money of the Bidder shall be forfeited if he withdraws his tender during the period of tender validity specified in the "Appendix to Tender"

E. Bid Opening and Evaluation

10) Opening of Tender

- i.** Tenders will be opened at the address mentioned in “Notice Inviting Tender” in presence of Bidders or authorized representatives of Bidders who wish to attend the opening of tenders. Physical presence during bid opening is optional.
- ii.** Bidders or their authorized representatives who are present shall sign register in evidence of their attendance.
- iii.** Bidder’s name, presence or absence of requisite Earnest Money, total cost of work quoted or any other details as Employer may consider appropriate will be displayed with list to all participating bidders after bid opening.

11) Clarification of the Tenders

- i.** To assist the examination, evaluation and comparison of the tenders, Employer may at his discretion ask the Bidders for any clarifications as considered essential. All such correspondence shall be in writing and no change in price or substance of the tender shall be sought or permitted. The above clarification for submission of the details shall form part of the tender and shall be binding on Bidder.

12) Preliminary examination of bids

- i.** The Employer shall examine the bids to determine whether they are complete, whether copy of all the relevant documents have been uploaded and generally they are in order.
- ii.** Prior to the detailed evaluation, Employer shall determine whether each bid is of acceptable quality, is generally complete and is substantially responsive to the bidding documents. For purposes of this determination, a substantially responsive bid is one that conforms to all the terms, conditions and specifications of the bidding documents without material deviations, objections, conditionality or reservation. A material deviation, objections, conditionality or reservation is one;
 - a)** That affects in any substantial way the scope, quality or performance of the contract.
 - b)** That limits in any substantial way, inconsistent with the bidding documents, the Employers’ rights or the successful Bidder’s obligations under the contracts; or
 - c)** Whose rectification would unfairly affect the competitive position of other Bidders who are presenting substantially responsive bids.

iii. If a bid not substantially responsive, it shall be rejected by the Employer.

iv. In case of tenders containing any conditions or deviations or reservations about contents of tender document, Employer may ask for withdrawal of such conditions/deviations/reservations. If the Bidder does not withdraw such conditions/deviations/ reservations, the tender shall be treated as non-responsive. Employer’s decision regarding responsiveness or non-responsiveness of a tender shall be final and binding.

13) Evaluation and Comparison of tenders:

tender being annulled then such bidder shall be treated as ineligible for participation in re-tendering of this particular work and also for any other work for a period of 6 months. A repeat incident of similar type within a period of 2 (two) years will render the bidder ineligible for participation in all future tenders for a further period of 2 (two) years.

19) Declaration of non – performance or ban status

Bidders are not eligible to participate in the tender process under the following conditions:

- i.** They have been declared a non-performer by Central Government/ State Government or a CPSU during the preceding 2 years.
- ii.** They are currently debarred from contract work by Central or State Government or a CPSU.

Accordingly, Bidders are required to sign an Affidavit as per the enclosed pro-forma in Annexure-I, declaring their status of non-performance or debarment.

20) Details of disputed status of ban/non-performance

Bidders will clearly state the status of dispute in the cases of ban/ non-performance pending in courts against them as on the date of opening of tender. Merely, pending appeal with the Departments concerned and Courts will not merit change of status. Grant of stay order by a Competent Court will be taken into account while considering the status of ban/ non-performance.

- i.** Bidder to be fully responsible for the consequences of misrepresentation
 - a)** Any suppression of information and misrepresentation will render the Bidder ineligible for the tender along with the forfeiture of Earnest Money. The Bidder will also be liable for disqualification for future tenders of HRIDC for a period of 2 years.
 - b)** If any suppression of information and misrepresentation is found after the award of Contract, the Contract may be terminated with forfeiture of EMD and SD (if any). The Consultant will also be disqualified for future tenders of HRIDC for a period of 2 years.

(Ref. Clause 19.of Instructions to bidders)

**FORMAT
AFFIDAVIT***

1. I/we, the undersigned, do hereby certify that all the statements made in the enclosed attachments are true and correct.
2. The undersigned also hereby certifies that
 - i. Neither our firm M/s _____ have abandoned any work awarded to us by any Authority / Department of Government of India or Govt. of Haryana or CPSU or any multi-laterally funded project work nor any contract awarded to us for such works have been rescinded, during the last 2 years prior to the date of this bid.

or

The details of contracts awarded to us by the Authorities / Departments of Government of India, Govt. of Haryana, CPSUs and the multi-laterally funded projects which have been abandoned / rescinded during the last 2 years prior to the date of this bid and the reasons there for are enclosed**.

- ii. We have not been declared a non-performer by any Authority / Department of Government of India or Govt. of Haryana or a CPSU or a multi-laterally funded agency during the last 2 years prior to the date of this bid.
- iii. We are not debarred for any contract work by any Authority / Department of Government of India Govt. of Haryana or CPSU or a multi-laterally funded agency.

Or

1. We were debarred for contract work by _____ for a period of _____ and the debarred period is already over. ***
2. We have no objection to HRIDC requesting to any bank, person, firm or body and any such agency furnishing pertinent information as deemed necessary or to verify this statement or regarding our competence and general reputation.
3. We understand that further qualifying information may be requested by HRIDC and we agree to furnish any such information at the request of HRIDC within the prescribed time.
4. We find ourselves with all the stipulations of the Bidding Document including period of completion, provision of adequate equipment, personnel and other resources required for completion within the stipulated completion period and agree to augment any resources, if found necessary for timely completion of the project, as desired by the HRIDC.
5. **We have read and understood all the provisions included in the bid documents and abide by them.**

6. The information furnished by us is correct and we understand the consequences in case any of the information furnished is not found to be true.

(Signed by the Authorized Representative of the Firm)

Name of the Authorized Representative.

Name of the Firm.

Dated:

-
- * To be executed on a non-judicial stamp paper of Rs.100/-.
 - ** If no details are attached, it will be presumed that there is no rescission of any contract in the relevant two years. **A wilful suppression of information may result in termination of Contract and debarring for two years.**
 - *** **Disputes pending with courts may be listed along with their status.**
All reference dates are to be reckoned from the date of opening of tender.

CHECK LIST FOR LIST OF DOCUMENTS duly page numbered, signed, stamped by authorised signatory of the firm with the tender and submit at the address specified in the “Notice Inviting Tender” not later than the prescribed date and time for bid submission:

1. Forwarding letter of the Bidder.
2. Form of Bid.
3. Details of similar works completed in last 5 years (Format-1)
4. Annual Turnover for the last three years with supporting documents (Format - 2)
5. Programme for deployment of key personnel (Format - 3).
6. Attested copies of the constitution of its firm such as Partnership deed (in case of partnership company), Memorandum of Articles of Association, etc..
7. Sales Tax/Works Contract Tax Registration Certificate, Service Tax -Registration Certificate (as applicable).
8. ISO 9001-2008 certificate, if any.
9. Banker’s Solvency Certificate.
10. Schedule of start and completion of work in the form of Bar Chart.
11. Methodology for execution of works.
12. Programme for Quality assurance during execution of work
13. Month wise Cash flow requirements.
14. Proof of transaction towards payment of Earnest Money through NEFT or RTGS and copy of Earnest Money Deposit of requisite amount in the prescribed form.
15. Original Power of Attorney duly attested by Notary Public of the in favour of the person signing the tender documents or photocopy duly attested by Notary Public or a Resolution of Board of Directors authorizing the person to deal with tenders/this tender case.
16. Banker’s Details (Name of the Bank and Branch), along with bidders own bank details (Account no., Name of Account holder, NEFT/RTGS details)
17. Affidavit (as per format given in annexure-I)
18. Any other details sought through ITB.

Criteria for evaluation of tenders

A. Essential Qualifying Criteria

1. The contractor should possess the experience of having successfully completed similar work of length not less than 5 kms during the last 3 years (as on 31.12.2018).
2. The average annual financial turnover during the last 3 years(i.e. 2017-18, 2016-17 , 2015-16) ending 31st March of the previous financial year should be at least 50 lacs.

Note:

- a) Works are considered similar if the work consists of “carrying out feasibility study including fixing of alignment, preparation of L-section, GADs & cost estimate or Final Location Survey (FLS) for Govt Railways or any Govt PSU in connection with Construction of New BG line/Doubling/ Gauge conversion/ Railway Siding.” The above work, if executed as part of any other work, will also be considered eligible.
- b) The financial turnover shall be judged from ITCC or Annual Reports including Profit and Loss Account.
- c) The Contractor should have positive net worth. This will be judged from the audited Balance Sheet of the last financial year ending on a date not prior to 18 months from the due date of submission of the tender.
- d) The contractor should submit performance certificates, in reference to S.No.1 above from clients (Govt. /Semi Govt./Public Sector/ Public listed company) for having successfully completed similar works in the last 5 years (as on 31.12.2018).
- e) Joint ventures shall not be considered.

B. Short-listing of Applicants

- i. The contractors should pass in all items of “Essential Qualifying Criteria”. In case of the bidder not meeting the Essential qualifying criteria, no further evaluation of the bid will be carried out and the bid will be disqualified.

C. Evaluation of Financial Proposal

- i. For financial evaluation, the total cost indicated in the Financial Proposal (Quoted Price in BOQ) will be taken inclusive of all Taxes. GST shall be paid extra.
- ii. HRIDC will determine whether the Financial Proposals are complete, unqualified and unconditional. The cost indicated in the Financial Proposal shall be deemed as final and reflecting the total cost of services. Omissions, if any, in costing any item shall not entitle the firm to be compensated and the liability to fulfill its obligations as per the TOR within the total quoted price shall be that of the Consultant.

- iii. The Applicant with the Lowest Financial Proposal (Fm) will be considered to be the Successful Applicant and will be informed through Letter of Acceptance (LoA).

D. REQUIREMENT OF SKILLED AND TRAINED MANPOWER INCLUDING ENGINEERS AND TECHNICAL STAFF

S. No.	Personnel	Qualification	Minimum number required	Total Experience for each person (in years)
1	Team Leader	B.Tech.	1	10 years (including 5 years in Indian Railways, its PSUs/ Metro Railways)
2	Track Expert	B.Tech	1	10 years in Indian Railways, its PSUs/Metro Railways
3	Survey Engineer	Diploma	1	5
4	Alignment Expert	B.Tech	1	10
5	Electrical Systems Expert	B.Tech	1	10 (including 5 years in Indian Railways, its PSUs/ Metro Railways)
6	Signalling & Telecom Systems Expert	B.Tech	1	10 (including 5 years in Indian Railways, its PSUs/ Metro Railways)
7	Patwaris	Retd. Revenue officials	1	20
8	Auto CAD Experts	Diploma	1	5

Note:

- i. Bidders must enclose Name, date of birth and complete testimonials of the experts proposed to be deployed on the project. Out of the total experience at least 25% experience must be directly in the relevant field.
- ii. Preference shall be given to Experts based in Chandigarh/ Delhi
- iii. Persons with the approved CV will have to be mobilized to carry out the work totalling up to the time period mentioned against each position.

FORMAT-1

(Ref. Sr. No. 3 of Annexure-II to Instruction to bidders)

DETAILS OF SIMILAR WORKS COMPLETED IN LAST FIVE YEARS

S. No.	Description of the Work	Name and address of the Employer	Contract No. and date	Date of award of work	Stipulated date of completion	Date of actual completion	Value of completed work (In Lacs of Rs.)	Reasons for delays, if any	Penalty ,if any, imposed for delay	Any Remarks other relevant information
---------------	--------------------------------	---	------------------------------	------------------------------	--------------------------------------	----------------------------------	---	-----------------------------------	---	---

- 1
- 2
- 3
- 4
- 5
- 6

Note:

1. Please attach copies of the certificates issued by the Client.
2. Only those works shall be considered for evaluation for which copies of the certificates issued by the client are attached.

FORMAT-2

(Ref. Sr. No. 4 of Annexure-II to Instruction to bidders)

ANNUAL TURNOVERS FOR THE LAST THREE YEARS

S. No.	YEAR	Turnover from Civil Engineering works (In lacs of Rs.)	Turnover from all sources (In lacs of Rs.)	Remarks
1				
2				
3				

Note:

- Please attach certified/attested copies of the latest ITCC and/or Profit and Loss Account statement to support the information furnished.
- Certified copy of Chartered Accountant showing turn-over of

FORMAT-3

(Ref. Sr. No. 5 of Annexure-II to Instruction to bidders)

PROGRAMME FOR DEPLOYMENT OF MAN POWER ALONG WITH BIO-DATA OF KEY PERSONNELS.

S.No.	Name	Qualification	Designation	Total Experience (in years)	Programme for deployment
1					
2					
3					

SECTION IV: APPENDIX TO BID

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Appendix to Bid

Description	Reference Clause
“Providing consultancy services to conduct (i) Feasibility Study (FS), preparation of detailed estimate and Final Location Survey (FLS), in connection with new electrified BG rail line from Hisar Airport to existing Raipur Haryana station on Jakhal-Hisar railway Line. (ii) Feasibility Study and preparation of detailed estimate & Final Location Survey in connection with Elevated Railway Line in Kaithal city on existing Narwana-Kurukshetra railway line.”	1. i of Instructions to Bidders
Client:- Haryana Rail Infrastructure Development Corporation Limited, Bay No. 13-14, Sector-2, Panchkula	1.iii(a) of Instructions to Bidders
Scope of Work:- Scope of work consists of as per Terms of Reference (TOR/Technical Specifications)	1.vi of Instructions to Bidders
Approximate Estimated Cost of the Work:- Rs. 19.44 lacs	1.vi (b)of Instructions to Bidders
Amount of Earnest Money Rs. 40,000/-	8.i of Instructions to Bidders
Period of Validity of Bid:- 90 days.	9.i of Instructions to Bidders
Period of Completion:- 12 Weeks	8.0 of Special Conditions of Contract
Defect Liability Period:- Nil	9.0 of Special Conditions of Contract

SECTION V: SPECIAL CONDITIONS OF CONTRACT

1. ORDER OF PRIORITY OF CONTRACT DOCUMENTS:

Where there is any conflict between the various documents in the contract, the following order of priority shall be followed i.e. a document appearing earlier shall override the document appearing subsequently:

- a. Agreement
- b. Letter of Acceptance
- c. Notice Inviting Bid
- d. Instructions to the Bidders
- e. Appendix to Bid
- f. Form of Bid
- g. Special Conditions of the Contract
- h. General Conditions of Contract
- i. Terms of Reference (TOR)/ Technical Specifications
- j. Relevant codes and Standards
- k. Bill of Quantities (BOQ)

2. MOBILISATION ADVANCE:

No mobilization advance shall be paid to Consultant.

3. SUPPLY OF MATERIALS

Consultant shall make his own arrangements at his cost for all materials required for execution, completion and maintenance of all items of work included in his scope of work to the complete satisfaction of the Engineer. Engineer shall not supply any materials nor shall assist for procurement of any materials required for execution, completion and maintenance of works.

4. SUPPLY OF PLANT AND MACHINERY BY EMPLOYER/ENGINEER

Consultant shall make his own arrangements at his cost for all Plant and Machinery required for execution, completion and maintenance of all items of work included in his scope of work to the complete satisfaction of the Engineer. Engineer shall neither supply any Plant and Machinery nor assist for procurement of any Plant and Machinery required for execution, completion and maintenance of works.

5. LABORATORY AND TESING FACILITIES OF SAMPLES

The laboratory tests on samples shall be done through national reputed agency approved by HRIDC.

The Consultant shall have to arrange for all field / lab tests at his own cost for carrying out all the tests required, as per Specifications or as stated elsewhere in the contract, including supply of laboratory equipment and also provision of adequate number of

qualified personnel, erection, maintenance and running of laboratory including all consumable like chemicals and reagents.

6. SALES TAX ON WORKS CONTRACT /GST as applicable

- i.** The Consultant shall get registered with the concerned Sales Tax Department of the relevant state(s) of the project and submit a copy of the same to the Employer/Engineer. He shall be responsible for filing sales tax returns and assessments, as necessary as per prevalent Laws, Rules and Regulations and shall also furnish necessary certificates to Employer/Engineer from time to time.
- ii.** Employer/Engineer intends to register with the Sales Tax Department under the **Composition Scheme** and shall be responsible for depositing of Sales Tax on works contract leviable on this project. The Consultants need not consider Sales Tax liability on works Contract while quoting their rates. The Consultant may arrange necessary TDS exemption certificate from Sales tax/Commercial tax/Trade tax authorities for exemption from deduction of tax at source. Till the TDS exemption certificate is submitted by the Consultant, the Engineer will continue to deduct the Sales tax at source from the payments due to the Consultant and deposit the same with Sales Tax Department. If requested, the Employer/Engineer shall issue necessary certificate in this regard.
- iii.** Wherever certain exemptions/benefits are available on custom duty, excise duty, service tax, Sales tax, works contract tax etc., the Consultant shall consider the same while quoting his rates. For instance, materials/ Plant and Machinery etc. used for execution of the projects financed by International organizations enjoy exemption from custom duty and/or excise duty on fulfilling the conditions as per Govt. notifications. Similarly the Consultant shall ensure that whenever any benefits are available under Sales tax/Works contract tax, Service tax, these shall be considered while quoting the rates.

7. PRICE ADJUSTMENT

No price adjustment shall be applicable in this tender during the work period till completion of the works.

8. COMPLETION PERIOD

The work is required to be completed within a period as specified in the Appendix to Bid from the date of issue of letter of acceptance. The work shall be completed in phased manner if specified in the Appendix to Bid.

The work has to be executed in co-ordination with other agencies working on or near the project.

In case of any delay in the completion period, the extension of the same shall be dealt as per the clause 49.0 of General Conditions of the contract.

9. DEFECT LIABILITY PERIOD

Defect Liability Period has been specified in the Appendix to Bid.

10. INSURANCE

Clause 9.0 of GCC may be referred.

11. PERFORMANCE SECURITY:

Relevant clauses (clause 8.0) of General Conditions of Contract are applicable regarding retention money.

12. RETENTION MONEY:

Relevant clauses (clause 8.0) of General Conditions of Contract are applicable regarding retention money.

13. COMPLETION PERIOD, WORK PROGRAMME SUBMISSION AND COMMENCEMENT OF WORK AND DELAY & EXTENSION OF CONTRACT

- a. The work is required to be completed within the period as mentioned in appendix to bid from the date of issue of letter of acceptance.
- b. Within 7(Seven) days of the issue of Letter of Award and before the work is commenced; the Consultant shall have to submit a detailed programme for each major element of the work, using the modern networking techniques for Project monitoring, for approval of the Engineer. The construction programme will show the general methods, arrangements, order and timing for all the significant activities in the works identifying the critical path for the work clearly.
- c. The agreement or the approval of the programme by the Engineer shall not relieve the Consultant of any of his responsibilities to complete the whole works by the prescribed time.
- d. The Consultant shall submit to the Engineer, for approval, an updated Program, whenever the Engineer may so direct, to take account of the actual progress of the Contract Works so as to achieve completion either before the due date for completion or by the due date for completion or as soon as practicable thereafter. The Engineer may further require the Consultant to indicate the means by which the programmed progress will be achieved. If the Consultant does not submit an updated Programme within a reasonable period as indicated by the Engineer, the Engineer may withhold the payment of next on account bill until the overdue Programme has been submitted.
- e. In case of any delay in the completion period, the extension of the same shall be dealt as per clause 49 of General conditions of contract (GCC).

15. ACHIEVEMENT OF MILESTONE PROGRESS

In order to ensure progress during execution of the work, the Consultant will be expected to achieve the following milestone targets ahead of dates mentioned against each. Failure to accomplish milestone targets within allocated time frame, save for reasons accepted as

valid by the Engineer-in-charge, shall create and constitute ground for failure on the part of Consultant for maintaining progress of the work as per agreed programme sufficient enough to recover liquidated damage @ Rs 10,000/- per day after the due date of each mile stone, limited to amount as per GCC.

Milestone targets	Description of mile stone to achieve	Time frame to achieve Milestone For Hisar Airpoort-Raipur Haryana	Time frame to achieve Milestone for Kaithal Elevated Track
Milestone 1	Fixing paper alignment, Study of alternate alignments and submission of draft feasibility report for approval of HRIDC	D1 =D+2 weeks	D1 =D+2 weeks
Milestone 2	Reconnaissance Survey (Foot by foot), Drone Videography, assessment of terrain, drainage works, utilities, forest and private land, Submission of final feasibility report after incorporation of comments / remarks from HRIDC	D2 =D1+2 weeks	D2 =D1+2 weeks
	Approval of Feasibility Report by HRIDC/ MoR	D3	D3
Milestone 3	Final location survey and centre line pegging along with topographic survey and alignment design report	D4 =D3+2 weeks	D4 =D3+2 weeks
Milestone 4	Submission of draft DPR as per BOQ details to HRIDC and incorporation of comments/ remarks from HRIDC/ Railways	D5=D4+3 weeks	D5=D4+2 weeks
Milestone 5	Submission of ESPs, L-section, GADs, Drawings and land acquisition data to HRIDC and final DPR.	D6=D5+2 weeks	D6=D5+2 weeks

Note:

- 1) **‘D’ is the date of issue of Letter of Award by HRIDC to the Consultant.**
- 2) **The liquidity damages recovered under clause 15 of GCC and clause 49.6 of GCC together would be limited to 10% of the contract value of the work.**

16. CONTRACT AGREEMENT

The Consultant shall enter into and execute the Contract agreement in the form of agreement (**Annexure-V**) within **28 days** from the date of issue of Letter of Acceptance. The stamp papers of the requisite value as per the prevailing laws shall be provided by the Consultant at his own cost. Original agreement shall be retained by the Employer/Engineer and a certified copy shall be made available to the Consultant.

17. IMPLEMENTATION OF QUALITY, SAFETY, HEALTH AND ENVIRONMENT MANAGEMENT SYSTEM (REF. CLAUSE 44 OF GCC)

In reference to clause 44 of GCC, specification of Safety, health and Environment specification has been attached, which shall be followed by the contract, during execution of work.

18. POWERPOINT PRESENTATION BY CONSULTANT

The consultant shall make power point presentation of both the projects before HRIDC, GoH and Railways to facilitate approval/ decision thereof.

PERFORMANCE BANK GURANTEE (UNCONDITIONAL)

To

Haryana Rail Infrastructure Development Corporation Limited,
(Name & Address.)

[Acting through _____ (Project Incharge) & Address of the Project]

WHEREAS _____ [*name and address of Consultant*] (hereinafter called “the Consultant”) 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 Consultant shall furnish you with a Bank Guarantee by any Scheduled Bank in India as given Annexure-VII for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Consultant such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Consultant, up to a total of _____ [*amount of Guarantee*], _____ [*amount 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 Consultant 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 you and the Consultant 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 up to _____ (a date **60 days** from the date of completion of the work).

SIGNATURE AND SEAL OF THE GUARANTOR

Name of Bank:

Address:

Date:

FORM OF AGREEMENT

(To be executed on requisite value of stamp Papers)

AGREEMENT

THIS AGREEMENT made on _____ day of _____ (Month/year) between Haryana Rail Infrastructure Development Corporation Limited, HRIDC, Bay No.13-14, Sec-2, Panchkula acting through (Managing Director, hereinafter called “the Employer/Engineer”) of the one part and _____(name and address of the Consultant) (hereinafter called “the Consultant”) of the other part.

WHEREAS the Employer is desirous that certain works should be executed by the Consultant viz. **Contract No.**_____ (hereinafter called “the Works”, and has accepted a Bid by the Consultant for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH as follows:

- In this Agreement, words and expressions shall have the same meaning as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
- The following documents shall be deemed to form and be read and construed as part of this Agreement:
 - a. Letter of Acceptance of Bid
 - b. Notice Inviting Bid
 - c. Instructions to the Bidders
 - d. Form of Bid
 - e. Appendix to Bid
 - f. Special Conditions of the Contract
 - g. General Conditions of Contract
 - h. Terms of Reference (TOR) / Technical Specifications
 - i. Relevant codes and Standards
 - j. Bill of Quantities (BOQ)
- In consideration of the payments to be made by the Employer to the Consultant as hereinafter execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
- The Employer hereby covenants to pay the Consultant in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

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

(Name, Designation and address of the authorized signatory)

(Name, Designation and address of the authorized signatory)

Signed for and on behalf of the Consultant in the presence of:

Signed for and on behalf of the Employer in the presence of:

Witness:

Witness:

1.

1.

2.

2.

Name and address of the witnesses to be indicated.

**SECTION VI: TERMS OF REFERENCES (TOR)/ TECHNICAL
SPECIFICATIONS**

TERMS OF REFERENCE (TOR)

1.0 GENERAL

Haryana Rail Infrastructure Development Corporation Limited (HRIDC), intends to appoint the consultant for “*Providing consultancy services to conduct (i) Feasibility Study (FS), preparation of detailed estimate and Final Location Survey (FLS), in connection with new electrified BG rail line from Hisar Airport to existing Raipur Haryana station on Jakhhal-Hisar railway Line. (ii) Feasibility Study and preparation of detailed estimate & Final Location Survey in connection with Elevated Railway Line in Kaithal city on existing Narwana-Kurukshetra railway line.*”.

HRIDC will be the employer and firm will be executing agency for the works. The standards of output required from the appointed agency/firm are to be of the international level both in terms of quality and adherence to the agreed time schedule.

The broad scope of the present study has been identified as follows:?

2.0 PURPOSE AND AREA OF STUDY

The purpose of this study is to prepare Detailed Estimate & FLS for 1) Construction of railway line between Hisar Airport to existing Raipur Haryana Railway station on Jakhhal-Hisar Railway line and 2) Elevated new Railway Line in Kaithal city in lieu of existing track in Kaithal city area on existing Narwana-Kurukshetra railway line.

3.0 SCOPE OF SERVICES

3.1 Feasibility Study

(a) New Line from Hisar Airport to Raipur Haryana Railway station (existing) Jakhhal-Hisar section.

- i.** To conduct foot by foot reconnaissance survey with hand held GPS along the proposed alignments, duly checking various geographical features, site constraints such as existing area, existing roads, power lines etc. and to assess modification to the proposed alignment as per site conditions.
- ii.** To study the proposed serving station, identification of locations for bridges, cross-drainage structures, level crossings / ROB / RUB and marking of high tension/low tension wire and any road crossing etc.
- iii.** To collect GPS coordinates along the proposed /possible alignments and spot levels to establish X, Y, Z co-ordinates along alignment and taking coordinates of station yards, as may be required
- iv.** Detailed survey of final alignment.
- v.** To prepare index plan and index section at 200 m interval based on contour level correlated with site observations, yard layout etc.

- vi. Pegging out of alignment.
- vii. Demarcation of final alignment at site
- viii. To prepare abstract cost estimates for Earth work, Bridges, Track, electrification & Signalling & Telecommunication and other miscellaneous Civil works like buildings and roads, protection works etc.
- ix. Traction system and power supply
- x. Signaling and communication.
- xi. Land requirement and cost estimate of land.
- xii. Hydraulic and Hydrological investigation.
- xiii. Right of way (ROW) demarcation.
- xiv. Consultant with concerned Govt. / Semi Govt. Departments at all different stages of the assignment.
- xv. Preparation & Submission of detailed project report:-

c) Elevated Railway Line in Kaithal City area:

- i. The work shall be done within the existing right of way avoiding land acquisition.
- ii. Review of all available reports as per Railway record about the existing Kurukshetra-Narwana line in Kaithal city area only.
- iii. Consultation with relevant Govt. Departments at all the different stages of assignment.
- iv. Inventory and condition surveys for existing Kurukshetra-Narwana line in Kaithal city area only.
- v. Inventory and condition surveys for track, bridges, cross-drainage structures, LC gates, other Structures and drainage provisions;
- vi. Detailed Topography Survey of the existing corridor. (Approx. 5 Km length)
- vii. Preparation of L-section, index plan, horizontal and vertical alignment. Preparation of GADs of Elevated section and station layout plan of Elevated Thanesar station.
- viii. Identifying the location of all existing utility services (both over- and underground) and the scheme and cost for their relocation;
- ix. Preparation of cost estimate with breakdown of various costs;
- x. Tie-in on-going/sanctioned works of Northern Railway/ other agencies.

- xi.** Identify Major Socio-Economic benefits to be accrued to the society by construction of Elevated Railway Line.

3.2 Detailed Project Report

After approval of feasibility report from HRIDC/MoR, final location survey shall be carried out for the approved alignment and the yards.

- i.** To check / review alignments finalized during feasibility study.
- ii.** To carry out Final Location survey of the approved alignment and the yards and detailed design of the alignment & connectivity.
- iii.** To fix the proposed alignment and the yards by Total Station Survey as per Indian Railway stipulation.
- iv.** To take detailed longitudinal and transverse levels survey along the alignment and the yards.
- v.** To fix bench marks at 500 m intervals along the line and in the yards to facilitate checks during construction work.
- vi.** Centre line pegging along with marking rail corridor for land acquisition on Mouza map, with details of land ownership (forest, revenue or private), khasra details, liaison and collection of signed documents from revenue and forest and other concerned departments, preparation of rehabilitation and resettlement plan, preparation of land acquisition documents as per the relevant Land Acquisition Acts.
- vii.** To fix permanent reference points along alignment and the yards.
- viii.** To survey water courses for computation of flood discharge including fixing exact location of bridges on the alignment for proper drainage.
- ix.** To prepare Engineering Scale Plans and sections for the project (as per Indian Railway code), as may be required in the draft DPR.
 - a) Index map
 - b) Index section and plan
 - c) Detailed plans and sections.
 - d) Plan for junction arrangements-at Raipur Haryana Railway Station.
 - e) Development of Yard Plan at Hisar Airport in consultation with Haryana Civil Aviation Department, Airport Authority of India & HRIDC.

3.3 The works included in this contract are to be carried out close to the running tracks and public utilities, therefore, safety of running trains and public is paramount. Therefore, all activities undertaken by the Consultant / his Sub-Consultants shall ensure safety at all times. The Consultant shall comply with the instructions issued by the railway/Engineer/Employer from time to time to ensure safe running of trains while

carrying out works. The rates quoted by the consultant shall be deemed to include all expenditure incurred in compliance with the same.

In case during inspection by HRIDC/Railway/State officials, the Consultant or their personal are found to be adopting unsafe practices, penalty of Rs 10,000 per occasion shall be imposed.

4.0 NORMS AND STANDARD FOR NEW LINE

All the plan and proposals will comply to IRS codes and Manuals, Indian Railways SOD 1676 mm Gauge, Good Engineering practice and related instructions issued by IR and Client as given below:

Sr. No.	Description	Proposed Details
1.	Standard of Construction	Group B
2.	Gauge	1676 mm (BG).
3.	Traction	Electrified 25KV AC traction.
4.	Loading standard	25 T loading.
5.	Speed potential	100 kmph (passenger).
6.	Maximum degree of curvature	The geometry of track i.e. degree of curvature and transition length should be according to the speed potential of 100 kmph.
7.	Ruling gradient	1 in 200 (compensated)
8.	Gradient in yards	Generally, not steeper than 1 in 1200. If any constraint due to site conditions, then 1 in 400 may be adopted.
9.	Width of formation	For single line- i. Bank: 7.85 m on straight ii. Cutting: 7.250 on straight
10.	Track structures	i. Rail: - 60 kg first class for main line & loop lines. ii. Sleepers: - MBC sleepers 1660 Nos. per km. in main line & 1540 Nos. per km in loop lines. iii. Ballast cushion: - 350 mm for main line and 250 mm for loops. iv. Welding of Rail: - Rails to be welded to convert in to CWR / LWR as far as possible. v. Points and Crossing: - 60kg on MBC fanshaped sleepers with 1 : 12 curved switch in main line and 1 : 8.5 curved switches in loop line.
12.	Level Crossings	Eliminating all level crossings by provision of ROB/RUBs/Subways.
13.	Length of loops	CSR – 751 m (CSL – 725 m).
14.	Track centres	Minimum 5.3 m is to be adopted and track center of 6.0 m is to be adopted between main line and loop line in the yard.

15.	Permissible maximum length of ruling gradient in one stretch	No restriction.
16.	Maximum grade on approach to main bridges	As far as possible consistent with site conditions and not steeper than 1 in 250 compensated and level in approach of bridges minimum up-to 100 meter.
17.	Signalling &telecommunication	MACLS signalling with standard-III with Quad cable and OFC communication and block working. Single Section Digital axle counters have been proposed for the entire section. Four aspect signaling is required for speed potential up to 100 kmph.
18.	Electrification	25 KV AC Traction.

5.0 DETAILED SCOPE OF SERVICES:

5.1 Hisar Airport-Raipur Haryana New Line

The services to be rendered under the proposed contract in accordance with engineering code will include:

- i.** Collection and study of available Report with Railway scaled plans, yard plans, index plans, longitudinal section and railway boundary & land plan from client for the proposed work if any.
- ii.** Arranging a copy of digitized railway land plans for railway land if any.
- iii.** Establishment of DGPS control points at every 2 kms interval in pairs along the approved alignment including submission of coordinates in WGS84 system.
- iv.** Establishment of Permanent Control point pillar of size 500mm x 500mm x 1000mm long precast RCC pillars with provision of 700 mm long MS plate for making the control point coordinates.
- v.** Collection of topo sheet from Survey of India, scanning and digitizing of the topo sheet in 1:50000 / 1:25000 scale with contour in MSL (15 sheets).
- vi.** Reconnaissance survey for identifying the feasibility of various alignments and selecting most economical and viable alignment.
- vii.** Acquisition of Remote Sensing data using Military Grade drones having accuracy of 10 cms including processing the same and submitting base map of 1 Km wide belt in plain section and 2 Kms wide belt in hilly terrain along the most probable alignment, showing 0.5 interval contours, all man-made details such as structure, roads, nallas, rivers, temples etc. This item includes refinement of approved alignment as per the details shown in the base map and contours.
- viii.** Topographical and Final location survey for final alignment.
- ix.** Design of vertical and horizontal alignment as per Terms of Reference using Bentley or similar software. Calculation of earth work quantities based on typical cross section.
- x.** Preparation of index plan, key plan, and presentation Drawings.

- xi.** Identification of Utilities along the alignment along with details such as electrical crossing, sag height at the crossing and ownership of the utility holder, gas pipe-line, water pipe-line, canals etc.
- xii.** Signalling & Telecommunication system. The cost of Signalling is to be worked out for 100 kmph.
- xiii.** Traction and OHE: Cost of OHE work, working out of power requirement & additional facilities including electrical general work. The cost of OHE is to be worked out for speed potential of 100 kmph.
- xiv.** Demarcation of ROW of approved alignment on site with boundary stone pillars of size 30 cms x 30 cms x 100 cms casted in M-20 grade concrete and fixed at 200 m interval with 70 cms below ground, on either side with a nail fixed in the centre of the surface including painting.
- xv.** Preparation of land plans and land schedules of proposed alignment along with submission of village-wise area statement, private and Govt. land required for the corridor, cost calculation as per prevailing rate for land to be acquired, survey maps required for preparation of land acquisition proposal, collection of 7/12 (Khasra and Khatoni), preparation of notification under clause 20(A) of the Special Land Acquisition Act.
- xvi.** Hydraulic calculation of the major and minor bridges.
- xvii.** Preparation of cost estimate of the project component as per last accepted rates or DSR. The component of royalty for construction material payable to State Govt. is to be bifurcated and shown separately in the cost estimate.
- xviii.** Project time frame with activity schedule.
- xix.** Detailed Project Report.

5.2 Elevated Railway Line in Kaithal City area:

- i.** Review of all available report as per Railway record about the existing Kurukshetra-Narwana Railway line in Kaithal City area.
- ii.** Reconnaissance survey to identify the feasibility of alignment within the Railway land.
- iii.** Detailed Topographic Survey of the existing corridor.
- iv.** Design of horizontal and vertical alignment and stacking it on the ground.
- v.** Preparation of index plan, index section, L-section, GADs & presentation drawings.
- vi.** Identification of utilities along the alignment along with details like electrical crossings, gas pipe line, water pipe line etc.
- vii.** Feasibility of construction.
- viii.** Preparation of cost estimate as per last accepted rates in the contiguous area.
- ix.** Implementation schedule for the project.
- x.** Detailed project report DPR.

DESCRIPTION OF SERVICES:

6.0 Reconnaissance survey.

- i.** The survey will be conducted to rapid and rough investigation of the area with a view to determine the technical feasibility of the proposal as well as the rough cost of various alternative of single line with the help of computer software.
- ii.** The reconnaissance survey will be based on contoured survey maps and other data already available and with the help of suitable software, without carrying out detailed investigation in the field. With the help of the maps and computer software , different alternative alignment of the line are to be studied to arrive at most economical and feasible alignment.
- iii.** The general topography of the country will be studied by the survey team and then field data will be collected.
- iv.** The consultant shall prepare various possible alternative alignment and make a preparation along with recommendation of alignment as per engineering parameters, land acquisitions, intermodal connectivity to the proposed stations.
- v.** The consultant shall collect data using Military grade drone and develop base map of the scale of 1:10000. Using the base map, the consultant shall optimize the horizontal and vertical alignment. For this purpose, the most optimal alignment shall be marked on the base map making use of horizontal and vertical data as available in the base map. While finalizing the alignment integration with existing transport modes such as Airports, existing Railway stations and bus terminals or other constraints should also be kept in view.
- vi.** The consultant shall be expected to detail in their proposal the process for the evaluation of alternative and the selection of the preferred alternative. The selection of preferred alternative including the procedure to be adopted needs to be finalized in consultation with HRIDC.

The following field data will be collected during the reconnaissance survey.

- General Topography of the country.
- Approximate heights of the different points falling on the alignment.
- Positions of rivers, streams if any Positions of roads and highways.
- Rough location of various station sites.
- Various alternative routes should be marked on digital map with approximate costing of various components.

7.0 Topographic survey of selected alignment / alternatives.

After reconnaissance survey and taking approval on probable alignment from HRIDC, Topography survey will be conducted by using modern technology like total stations / DGPS / Military grade drone as well as data available with other agencies.

The basic objective of the topographic survey would be to capture the essential ground features along the approved alignment in order to design and cost estimates. The

detailed topographic survey should normally be taken up after the completion of reconnaissance surveys.

The using data from the topographic survey shall be available in (x,y,z) format for use in a sophisticated Digital Terrain Model (DTM). The Consultants would be fully responsible for any inaccuracy in surveys.

The detailed field survey would essentially include the following activities:

- Topographic survey along the proposed Right of Way (ROW): Running a continuous open Traverse along the proposed alignment, wherever required, and fixation of all cardinal points such as Horizontal Intersection Points (HIPs), centre point and transit points etc. and properly referencing the same with a pair of reference pillars fixed on either side of the centre-line at safe place within in ROW.
- Collection of details for all features such as structures (bridges, culverts etc.) utilities, existing roads, electric and telephone installations (both O/H as well as underground), huts, buildings, fencing and trees (with girth greater than 0.3 meter) oil and gas lines etc. falling within the extent of survey.
- Where existing roads / Nala cross the alignment, the survey will extend to a minimum of 100 m either side of the ROW line and will be of sufficient width to allow improvements, including at grade intersection to be designed.
- Railway land boundary with digitized railway land plans.
- Picking of details of existing Railway lines.
- Taking cross section of proposed alignment at an interval of 20m consisting centre of track/ embankment, edge of embankment, toe of embankment, spot levels of ground within the proposed railway boundary.
- Important Railway details like fixtures, Gradient posts, Fouling marks, details of curves, details of Level Crossings (LC), Details of Culverts, Minor Bridges, Major Bridges, Flyovers across Railway Corridor.
- Details of existing and proposed FOB, ROB, RUB within Railway land.
- Points & crossings (SRJ & Heel of crossing), LWR/SEJ
- Yard details: Topographic survey of station yard including station building, Platforms and other structures.
- Feasibility of existing yard connectivity with details and other affecting features.

8.0 ALIGNMENT DESIGN:

- The Consultant shall design the track geometry (curvature) with speed potential of 100 KMPH. Consultant shall use Bentley Rail of similar software to design the alignment. L-Section and Cross sections shall be generated at every 20 m intervals, Grades shall be marked on L-section considering the obligatory requirement such as River Bridges, ROB/RUB, Station locations etc.

- Consultant shall calculate the quantity of cut and fill based on the designed alignment and considering the necessary slopes for fill and cut to retain the earth.
- Consultant shall Identify type and location of turnouts, crossovers and prepare a schematic yard layout to be attached in Detailed Project Report.

9.0 HYDRAULIC AND HYDROLOGICAL INVESTIGATIONS:

- The hydrological and hydraulic studies shall be carried out in accordance with Standard Specification & Code of Practice for Railway Bridges, these investigations shall be carried out for all proposed drainage along the proposed alignment.
- The Consultant shall make a desk study of available data on topography (topographic maps , stereoscopic aerial photography), storm duration, rainfall statistics, top soil characteristics, vegetation cover etc. so as to assess the catchment areas and hydraulic parameters for all proposed drainage provisions. The findings of the desk study would be further supplemented and augmented by a reconnaissance along the area. All-important hydrological features shall be noted during this field reconnaissance.
- The Consultants shall collect information on high flood level (HFL), low water levels (LWL), discharge velocity etc. from available past records, local inquiries and visible signs, if any. Local inquiries shall also be made with regard to the Nallah sections getting overtopped during heavy rains.

10.0 TRACTION SYSTEM & POWER SUPPLY:

- As per requirement, suitable traction system should be proposed to be adopted power requirement and source of power supply should be indicated.
- Working out of cost of OHE work, working out of power requirement and additional facilities including electrical general work to be done. The cost of OHE is to be worked out for speed potential of 160 KMPH.
- Consultants shall recommend in sufficient detail the power supply arrangements, preliminary design of OHE/Other traction system as per standards for viaduct and underground section if any as applicable and shall estimate Electrical Load that needs to be contracted with different alternative modes of traction.
- Peak electrical power load requirement is to be calculated based on the expected peak hour Passenger in Peak direction (PHPPD) and Ridership data, designed loads, sources of supply, broad description about distribution network and major equipment etc.

- Detailed specification of equipment e.g. power cables, transformer, switchgear, E&M equipment etc shall be framed to reduce conducted of radiated emissions as per appropriate international standards. A detailed EMI/EMC and Earthing & Bonding plan is required to be developed during detailed design stage.

Following items are expected in the report: -

- Type of power supply, feeding method such as 25KV x 2.
- Allocation and scale of substations.
- Structure of OHE.
- Details of power collection, supply and catenary system.
- Compatibility of electrification system with power supply arrangements in India.
- Power supply for signalling system and others.

11.0 SIGNALLING & COMMUNICATION:

Consultants have to work out cost of signalling system as per specified norms and propose suitable system to serve the Train Operation Plan effectively. The recommended system has to be cost-effective. The scope includes: -

- To carry out Field survey for proposed S&T system wherever required.
- Identify system / equipment to be installed.
- Cost for speed potential of 160 kmph and 200 kmph to be worked out separately.
- Communication form one or the most important requirements of any rail system. Consultant will recommended appropriate communication system also to serve all the operational requirements of the system. Suitable operation control system shall be proposed.

12.0 MATETIRAL INVESTIGATIONS: -

- The Consultant shall identify sources (INCLUDING use of fly-ash/ slag), quarry sites and borrow areas undertake field and laboratory testing of the materials to determine their suitability for various components for the work and establishment quality and quantity of various construction materials and recommend their use on the basis of techno-economic principles. The Consultants shall prepare mass haul diagram for haulage purposes giving quarry charts indicating the location of selected borrow areas quarries and the respective estimated quantities.
- The consultant shall take 3 trials at major bridge locations including laboratory testing of the material to determine their suitability.
- It is to be ensured that no materials shall be used from the right-of-way except by way of leaving the ground as required from the construction point of view, or for landscaping and planting of trees etc. or from the cutting of existing ground for obtaining the required formation levels.

- The Consultant shall make suitable recommendation regarding making good the borrow and quarries areas after the exploitation of material for construction works.

13.0 DETAILS OF UTILITY SERVICES AND OTHER PHYSICAL FEATUERES:

- The Consultants shall collect details of all important physical features along the alignment. These features affect the project proposals and should normally include buildings and structures, burial grounds, cremation grounds, places of worship, railway lines, stream / river / canals electrical crossing, servers, the utility services, gas/oil pipe-line, water pipe-line, trees, plantations such as electric and telephone lines (O/H & U/G) and poles, Optical Fiber Cables (OFC) etc. The survey would cover the entire Right-of-Way of the railway line on the adequate allowance for possible shifting of the central lines at some of the intersections locations.
- The information collected during reconnaissance and field surveys shall be shown on a strip plan so that the proposed improvements can be appreciated and the extent of land acquisition with L.A schedule, utility removals of each type etc. assessed and suitable action can be prepared for submission to the concerned agency.

14.0 LAND REQUIREMENT:

The Consultant shall mark the alignment to scale wherever necessary on village maps and the quantum of land to be acquired and prepare the land plans, as required for the publication of section 4 of Land Acquisition Act showing Gut No., area to be acquired, in the format prevalent in the state along with the cost of land as per ready reckoner duly certified by the land authorities etc. The summary of entire data to be placed in the report. Similar exercise to be performed for forest land and the details should be summarized in the reports.

15.0 ROW DEMARCATION:

The surveyed alignment shall be transferred on to ground as under:

- Row Pillars are to be erected to establish proposed land width at 200m interval on entire sides'. The Bench Mark / Reference pillar of size 30 cm X 30 cm X 100 cm shall be cast in RCC of grade M 20 with a nail fixed in the center of the top surface. The ROW and reference pillar shall be embedded in concrete up to a depth of 70 cm with CC M20 (15 cm wide all around). The balance 30 cm above ground shall be painted yellow. The spacing shall be 500m apart, in case Beinch Mark Pillar coincides with Reference pillar, only of the two need be provided.
- Establishing Bench Marks at site connected to GTS Bench Marks at an interval of 500 meters on Bench Mark Pillar made of RCC as mentioned.

16.0 ESTIMATION OF QUANTITIES AND PROJECT COSTS:

The final cost estimate will be prepared on the basis of alignment approved for the project at current prices for single line with electrification. The unit costs to be used for the purpose will be those prevailing in surrounding area for Railway Works. The rate reference considered for cost calculation to be made available. Cost of Railway Land will be based on the rates collected from State Govt., Railways and from Private land owners. The rate to be collected by the consultants.

17.0 SUBMISSION:

The consultant shall prepare the following report having detailed information and analysis in regard to area as specified for each report duly incorporating the reports. All report along with typical drawings till draft stage will be supplied in 02 hard and soft copy and final report after approval will be submitted in 10 copies and soft copy. The consultant shall also submit reasonably good number of photographs, video clippings and all drone recordings to HRIDC.

Drawings:

Consultant shall submit the following drawings:

- i.** Alignment plan and profile on scale of 1 in 25000 (horizontal) and 1 in 2500 (vertical) showing alternative alignments.
- ii.** All plan and profile drawing shall be plotted on 1:2500 H and 1:250 V.
- iii.** Land plan and area statement of land to be acquired with Ownership Details and village list
- iv.** List and strip plan of Utility crossings, including Over head crossings.
- v.** Key map on 1 : 100000 scale showing traffic network, important places etc.
- vi.** Map showing proposed sub stations.
- vii.** List of structures.
- viii.** List of curves and grade abstract.
- ix.** Detail project report.

18.0 Activity of Final report Location survey like pegging of alignment for approved alignment.

- i.** After getting approval for finalized alignment, a survey will be conducted. In the survey, the alignment will be marked on the ground for DGPS co-ordinates.
- ii.** The Survey will be based on a good theodolite / total station or traverse, which will approximate as closely as possible to the centre line to be finally adopted.
- iii.** The information collected during the survey will be such as will enable the preparation of a fairly accurate alignment.
- iv.** Preparation of Project sheets & Yard Plans.

SECTION VII: CERTIFICATION OF FAMILIARIZATION

Certificate of familiarization

- A.** I/We hereby solemnly declare that I/We have visited the site/place of work and have familiarized myself/ourselves of the working conditions there in all respects and in particular, the following:
- a)** Topography of the Area.
 - b)** Soil conditions at the site of work.
 - c)** Sources & availability of Construction material.
 - d)** Borrow areas of earth.
 - e)** Rates for construction materials.
 - f)** Availability of local labour, both skilled and unskilled and the prevailing labour rates.
 - g)** Availability of water & electricity.
 - h)** The existing roads and access to the site of work.
 - i)** Availability of space for putting labour camps. Officers, stores, godown, sheds engineering yards etc.
 - j)** Climatic condition and availability of working days.
 - k)** Prevailing all taxes, VAT, duties etc.
- B.** I/We have kept myself/ourselves fully informed of the provisions of this bid document comprising Instructions to the Bidders, General Conditions of the Contract, Special Conditions of Contracts and Special Technical Specifications/ Conditions of contract apart from information conveyed to me/us through various other provisions in this bid document.
- C.** I/We have quoted my / our rates as ‘Percentage above / below / at par ‘ and quoted against blank items by rates in figure and words, with total cost as per Schedule of Items Rates and Quantities (BOQ) in Schedule “A to H”, in FINANCIAL BID (volume-II) taking into account all the factors given above.

(Signature of Bidder/s)

Date: _____

Place: _____

SECTION VIII: BILL OF QUANTITIES

Bill of Quantities

BILL OF QUANTITIES (BOQ)						
Name of Work – “Providing consultancy services to conduct (i) Feasibility Study (FS), preparation of detailed estimate and Final Location Survey (FLS), in connection with new electrified BG rail line from Hisar Airport to existing Raipur Haryana station on Jakhal-Hisar railway Line. (ii) Feasibility Study and preparation of detailed estimate & Final Location Survey in connection with Elevated Railway Line in Kaithal city on existing Narwana-Kurukshetra railway line.”						
Schedule-I (Feasibility Study of Hisar Airport-Raipur Haryana)						
S. No	Activity	Details of work	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1.	Desk Study of alternatives	Desk study of alternative alignments on topo-sheet as per the purpose, area and scope of work defined in TOR in consultation with NR/HRIDC/ other stake holders - proposal of alignment on topo-sheet Google Earth, KMZ format	KM	7		
2.	Reconnaissance Survey and Abstract Cost Estimates Detailed Feasibility Report)	To conduct foot by foot reconnaissance survey with hand held GPS along the proposed alignment, duly collecting various information and to suggest modification to the proposed alignment as per site condition, preparation of L- section, Alignment Report, List of bridges(waterways), ROBs, RUBs, , station location, station equipment, staff colony, yard layout, junction arrangements, track structure, land requirement, rough classification of land, signalling arrangement, electric traction arrangements, utility shifting, cost estimates, alternative studies and comparison, of draft feasibility report as defined in TOR and then submitting final feasibility report in consultation with HRIDC/ MoR/ other stakeholders.	KM	7		
Total of Schedule-I						

Schedule-II (DPR of Hisar Airport-Raipur Haryana)						
S. No.	Activity	Details of work	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1.	Final Location Survey and plot verification	Fixing of alignment by centre line pegging with RCC pillars (of size 15 cm x 15 cm x 450 cm with 4 nos of 8 mm dia steel & 6 mm plain bar stirrups and M20 grade concrete) @100 m C/C in straight portion, tangent points and apex point of curve including traversing between existing control points, marking of land corridor for land acquisition and facilitate verification of village plots and preparation of land plans & land schedule on ground etc by State govt. officials. Assessment of type of land, its broad classification as private, govt., revenue forest or forest land for management decisions	KM	7		

2.	Topographic survey and identification of bridges, road crossings, power line and other utilities. Including preparation of GADs (not detailed design)	<p>a. Detailed field survey including Aerial Photogrammetric survey and Aerial Videography using UAV/Drone along the final selected route for a corridor width of 100 m., comparison with other routes as per the available details, establishing horizontal and vertical control points, marking of rail corridor, crossings, buildings, hydrological data collection, proposal for bridge openings, road crossings, RUBs and ROB, etc. along the alignment and submission of draft report. (50%)</p> <p>b. Approval of the same by the HRIDC/MoR (50%)</p> <p>Note High resolution geo tagged aerial video and 3D Point Cloud Data should be submitted with all visible details and assets such as bridges, level crossing, station along the alignment of corridor bring recorded.</p>	KM	7		
3.	Preparation of L-Section	<p>a. Alignment design, Preparation of survey report including plans, L- Section @20m interval, estimate, cross sections at every 50m, GADs and submission of Draft report. (50%)</p> <p>b. Getting approval of HRIDC/MoR (50%)</p>	KM	7		
4.	Preparation of Junction arrangements, ESPs	Preparation of all ESPs including junction ESPs based on Railways existing ESP as per approved DPR under detailed consultation with employer, concerned Railway. (50%) Getting approval of HRIDC/MoR (50%)	Each	2		
5.	Preparation of Signal Interlocking Plans	Preparation of SIP based on approved ESP (50%) Getting approval of HRIDC/MoR (50%)	Each	2		
6.	Detailed estimate & Rate analysis	Preparation of detailed estimate with rate analysis covering each item of land, earthwork, track, bridges and structures, drainage, roads and protection works, signalling electric traction, power supply, junction arrangements, general electrification, utility shifting, staff colonies, railway installations, offices, inspection and construction equipment (like tower wagons, RRVs) as per scale, complete job based on standard Schedules of rates where available or Last accepted rates of Railways/RVNL/IRCON/ RITES /State Govt. CPWD etc.	Each	01		
Total of Schedule-II						

Schedule-III (Feasibility Study of Elevated Railway Line in Kaithal City area)						
S. No.	Activity	Details of work	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1.	Reconnaissance survey and abstract cost estimate	To conduct foot by foot Reconnaissance survey along the alignment duly collecting various information, Inventory and condition surveys for existing track, bridges, cross-drainage structures, LC gates, other structures and drainage provisions, to suggest the proposed alignment as per site condition, preparation of L-section, Alignment report, take off point land availability on both side of the existing track, utilities shifting, L-section & cross section of proposed elevated structure, cost estimate etc in consultation with HRIDC/ Northern Railway.	KM	5		
		Total of Schedule-III				

Schedule-IV (DPR of Elevated Railway Line in Kaithal City area)						
S. No.	Activity	Details of work	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1.	Final Location Survey and	Fixing of alignment by centre line pegging with RCC pillars (of size 15 cm x 15 cm x 450 cm with 4 Nos of 8 mm dia steel & 6 mm plain bar stirrups and M20 grade concrete) @100 m C/C in straight portion, tangent points and apex point of curve including traversing between existing control points, marking of land corridor for land acquisition and facilitate verification of village plots and preparation of land plans & land schedule on ground etc by State govt. officials. Assessment of type of land, its broad classification as private, govt., revenue forest or forest land for management decisions	KM	5		
2.	Topographic survey and identification of road crossings, power line and other utilities. Including preparation of GADs (not detailed design)	a. Detailed field survey including Aerial Photogrammetric survey and Aerial Videography using UAV/Drone along the route for a corridor width of 100 m., establishing horizontal and vertical control points, existing Geo-technical investigation data collection, existing overhead/underground utilities requiring shifting, buildings, road crossings, etc along the alignment and submission of draft report. (50%) b. Approval of the same by the HRIDC/MoR (50%) Note High resolution geo tagged aerial video and 3D Point Cloud Data should be submitted with all visible details and assets such as bridges, level crossing, station along the alignment of corridor bring recorded.	KM	5		
3.	Preparation of L-section	(a) Alignment design preparation of survey report including plans, L-section @ 20 m interval, cross section at every 50 m, GADs, estimate and submission of draft report. (50%) (b) Getting approval of HRIDC/MoR(50%)	KM	5		

4.	Detailed Estimate & rate analysis	Preparation of detailed estimate with rate analysis covering each item of land, earthwork, track, bridges and structures, drainage, roads and protection works, signalling electric traction, power supply, junction arrangements, general electrification, utility shifting, staff colonies, railway installations, offices, inspection and construction equipment (like tower wagons, RRVs) as per scale, complete job based on standard Schedules of rates where available or Last accepted rates of Railways/RVNL/IRCON/ RITES /State Govt. CPWD etc.	Each	1		
		Total of Schedule-IV				

Note: GST will be paid extra at prevailing rates.

S. No.	Activities	Amount (Rs.)
1	Total Cost of Schedule-I	
2	Total Cost of Schedule-II	
3	Total Cost of Schedule-III	
4	Total Cost of Schedule-IV	
	Grand Total	

Note

1. GST will be paid extra at the prevailing rates.

SECTION IX: GENERAL CONDITIONS OF CONTRACT

General Conditions of Contract (GCC)

1. HRIDC's General Condition of Contract shall be followed and will be a part of the Contract
2. Additional definitions mentioned in these tender documents elsewhere will be followed for GCC
3. In case of any ambiguity in any definition, the decision of HRIDC regarding the interpretation shall be final and binding.
4. Wherever there is conflict in any condition between General Conditions of Contract (GCC) and Special conditions of Contract (SCC) mentioned in the tender documents, the conditions mentioned the Special conditions of Contract will prevail. However, Engineer's decision in this connection shall be final and binding.

GENERAL CONDITIONS OF CONTRACT – INDEX

CLAUSE No.	DESCRIPTION
1.0	DEFINITIONS
2.0	HEADING AND MARGINAL NOTES
3.0	SINGULAR, PLURAL AND GENERAL
4.0	COMMUNICATION AND LANGUAGE OF CONTRACT
5.0	LAWS GOVERNING THE CONTRACT
6.0	INSPECTION OF SITE AND SITE DATA
7.0	CONTRACTOR'S UNDERSTANDING
8.0	PERFORMANCE SECURITY & RETENTION MONEY
9.0	INSURANCE
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GENERAL CONDITIONS OF CONTRACT

1) DEFINITIONS

In the Contract, as herein after defined, the following word expressions shall have the meanings hereby assigned to them, except where the context requires otherwise.

"Client or Principal Employer/Employer or Owner" HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED, A JV of Ministry of Railways and Govt. of Haryana (HRIDC in abbreviation) acting through its Managing Director or any other authorized officer and shall include their legal successors in title and permitted assignees.

"Engineer or Engineer in Charge" means the Project Head of HRIDC (Employer) or any other officer authorized by the Employer to act on his behalf and for the purpose of operating the contract.

"Engineer's Representative" means any official nominated from time to time by the Engineer to act on his behalf.

"Contractor" means the individual, firm, Company, Corporation, Joint Venture, or Consortium whether incorporated or not, who enters into the Contract with the Employer/Engineer, and shall include its heirs, executors, administrators, successors, legal representatives, as the case may be.

"Contractor's Representative" shall mean the person responsible for execution of the contract who shall be so declared by the Contractor and who shall be authorised under a duly executed power of attorney to comply the instructions and to use, receive materials issued by the Engineer to the Contractor for works. He shall be capable of taking responsibility for proper execution of works.

"Sub-Contractor" means the individual, firm, Company, Corporation, Joint Venture or Consortium, having direct Contract with the Contractor and to whom any part of the work has been sublet by the Contractor and shall include his heirs, his executors, administrators, successors, legal representatives, as the case may be.

"Other Contractors" means the individual, firm, Company, Corporation, Joint Venture or Consortium employed by or having a Contract directly or indirectly with the Client/Employer/Engineer other than the Contractor.

"Tenderer or Bidder" means the individual, firm, Company, Corporation, Joint Venture or Consortium submitting a bid/tender.

"Scheduled Bank" means a bank included in the second schedule to the Reserve Bank of India Act, 1934, or modification thereto.

"Contract" shall mean and include the Agreement or Letter of Acceptance, the accepted Bill of Quantities and Rates, the General Conditions of Contract, Special Conditions of Contract, Appendix to Tender, Form of Bid, Instructions to the Tenderers, Drawings, Specifications and other Tender Documents.

"Tender or Bid" means the offer (Technical and/or Financial) made by individual, firm, Company, corporation, Joint Venture or Consortium for the execution of the works.

"Specifications" means the specifications referred to in the Contract and any modification thereof or addition thereto, or as may from time to time be furnished or approved in writing by the Engineer.

"Drawings" means the Drawings annexed to the Contract or referred in it and shall include any modifications of such Drawings and further Drawings as may be issued or approved by the Engineer.

"Bill of Quantities (BOQ)" means list of items of work, their quantities and rates.

"Original Contract Value" means the sum stated in the letter of Acceptance/Contract Agreement.

"Contract Value" means the original contract value subject to the adjustments in accordance with the provisions of the Contract.

"Temporary Works" means all enabling works of every kind required for the execution of the works.

"Permanent Work(s)/ Work(s)" means the works (other than temporary works) to be executed in accordance with the Contract or part/s thereof as the case may be and shall include extra or additional, altered or substituted items of work as required for performance of the Contract.

"Construction Plant" means all machinery, appliances or things of whatsoever nature required for the execution, completion and maintenance of the works, but does not include material or other things intended to form or forming part of the permanent works.

"Site" means the land and/or other places on, under, in or through which the works are to be carried out, and any other lands or places provided by the Client/Employer/Engineer for the purpose of the Contract.

"Material/s" means all equipment, components, fittings and other materials including raw materials, which form part of the permanent works.

"Test" means such tests as prescribed in the Contract or by the Engineer or Engineer's Representatives, whether performed by the Contractor or by the Engineer or his Representative, or any agency approved by the Engineer.

"Approval or Approved" means approval in writing including subsequent written confirmation of previous verbal approval.

"Defect Liability Period" means the specified period of defects liability from the date of completion of the work as certified by the Engineer.

"Letter of Acceptance" means the letter from the Employer or the Engineer to the Contractor, conveying acceptance of the Tender.

"Month" means the Gregorian calendar month.

"Day" means the calendar day.

"Time" expressed by hours of the clock shall be according to the Indian Standard time.

"Tender Date" means closing date fixed for receipt of tenders as per notice inviting tender or extended by subsequent notification.

"Rupees"(or Rs. Or ` in abbreviation) shall mean Rupees in Indian currency.

2) HEADING AND MARGINAL NOTES

The top heading and marginal notes given in the tender or Contract documents are solely for the purpose of facilitating reference and shall not be deemed to be part thereof and shall not be taken into consideration in the interpretation or consideration thereof.

Notices, consents, Approvals, Certificates and Determination.

Wherever in the Contract provision is made for giving or issue of any notice, consent, approval certificate or determination, it shall be in writing and the words notify, certify or determine shall be construed accordingly.

3) SINGULAR, PLURAL AND GENERAL

Words importing the singular only also include the plural and vice versa where the context requires. Similarly, words importing masculine gender also include the feminine gender.

4) COMMUNICATION AND LANGUAGE OF CONTRACT

Communication to be in writing

4.1 All notices, communications, references and complaints by either party to the Contract shall be in writing in English or Hindi. Communication from only authorised representative of the Contractor shall be entertained.

4.2 Language of Contract

The Contract document shall be drawn up in English.

5) LAWS GOVERNING THE CONTRACT

The Contract shall be governed by the laws in force in India.

6) INSPECTION OF SITE AND SITE DATA:

The Employer/Engineer shall make available with Tender Documents such data on hydrological and sub-surface conditions, if any, obtained from investigations undertaken relevant to the

works. The tender shall be deemed to have been based on such data, if provided, but the Contractor shall be responsible for his own interpretation of all such data.

The Contractor shall be deemed to have inspected and examined the site and information available in connection therewith and to have satisfied himself fully before submitting his bid about the sub-surface conditions, the hydrological and climatic conditions, the extent and nature of work and materials necessary for the completion of the works, the means of access to the site and accommodation he may require. He shall also be deemed to have obtained all necessary information regarding risks, contingencies and all other circumstances which may influence or affect the contract.

7) CONTRACTOR'S UNDERSTANDING

The Contractor shall be deemed to have satisfied himself, before tendering, as to the correctness and sufficiency of his tender for the works and of the rates and prices stated in the Bill of Quantities, all of which shall except in so far as it is otherwise provided in the Contract, cover all his obligations under the Contract and all matters and things necessary for the proper execution, completion and maintenance of works.

8) PERFORMANCE SECURITY & RETENTION MONEY

For contracts valuing upto Rs.10 lacs, no performance security shall be required to be submitted by the Contractor.

Performance Security for Contracts valuing more than Rs. 10 lacs:

The successful bidder shall submit a Performance Guarantee (PG) in the form of irrevocable bank guarantee on the proforma annexed as Annexure-II from any Scheduled Bank for an amount of 5% (Five percent) of the contract value. The value of PG to be submitted by the Contractor will not change for variation upto 25% (either increase or decrease). In case during the course of execution, value of contract increases by more than 25% of the original contract value, an additional Performance Guarantee amounting to 5% (five percent) for the excess value over the original contract value should be deposited by the contractor.

Alternatively, the performance security can be furnished by the Contractor in the form of Fixed Deposit Receipt (FDR) from a scheduled bank endorsed in favour of the Employer.

The successful bidders, who choose to submit FDR as performance Guarantee, should avail the facility of auto-renewal at the time of placement of initial deposit, in order to avoid loss of interest after maturity of the FDR. HRIDC will not be responsible for any loss of interest if the contractor does not opt for auto renewal facility. No claim on this account will be entertained.

PG shall be submitted by the successful bidder after the letter of acceptance has been issued, but before signing of the agreement. The agreement should normally be signed within 28 days after the issue of LOA and the PG shall also be submitted within this time limit. This guarantee shall be initially valid upto the stipulated date of completion plus 60 days beyond that. In case, the time for completion of work gets extended, the contract or shall get the validity of PG extended to cover such extended time for completion of work plus 60 days.

No payment under the contract shall be made to the Contractor before receipt of performance security.

Failure of the successful tenderer to furnish the required performance security shall be a ground for the annulment of the award of the Contract and forfeiture of the Earnest Money Deposit.

Retention Money:

Retention money for all contracts shall be recovered from on account/ final bills of the Contractor @ 10% of gross value of each bill after adjusting Earnest Money Deposit (EMD) amount till the amount so recovered including EMD amount adds upto 5% of the contract value of the work.

No interest shall be payable to the Contractor on the amount retained in cash towards retention money.

Release of Performance Security:

Performance Security shall be returned to the Contractor, subject to the issue of Completion Certificate by the Engineer in accordance with **clause 65** of these conditions. This shall not relieve the Contractor from his obligations and liabilities, to make good any failures, defects, imperfections, shrinkages, or faults that may be detected during the defect liability period specified in the Contract.

Wherever the contract is rescinded, the security deposit shall be forfeited and the Performance Security shall be cashed and the balance work shall be got done independently without risk and cost of the failed contractor. The failed contractor shall be debarred from participating in the tender for executing the balance work.

The Engineer shall not make a claim under the Performance Guarantee (PG) except for amounts to which HRIDC is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:-

1. Failure by the contractor to extend the validity of the PG as described herein above, in which event the Engineer may claim the full amount of the PG.
2. Failure by the contractor to pay HRIDC any amount due, either as agreed by the contractor or determined under any of the Clauses/ Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer.
3. The contract being determined or rescinded under provision of the GCC the PG shall be forfeited in full and shall be absolutely at the disposal of the Engineer.

Release of Retention Money:

- i) The Retention Money shall be released to the Contractor after preparation of final bill and acceptance of the same by the Contractor and after the expiry of the defect liability period

specified in the Contract, reckoned from the date on which the Engineer shall have issued the Certificate of Completion comprising the whole of works. The retention money shall be released after all failures, defects, imperfections, shrinkages and faults have been rectified by the Contractor to the satisfaction of the Engineer and Defect Liability certificate is issued by the Engineer.

ii) Release of 50% Retention Money against Bank Guarantee/FDR:

a) For contracts valuing less than Rs.30 Crores:

If requested by the contractor, 50% of the Retention Money may be released on satisfactory completion of works against submission of Bank Guarantee for an equivalent amount by the Contractor in the performa annexed as Annexure-III from any scheduled Bank in India. This Bank Guarantee shall be kept valid till the period of three months beyond the expiry of Defect Liability Period. Fixed Deposit Receipt (FDR) from a scheduled bank endorsed in favour of the Employer can be submitted by the Contractor in lieu of the Bank Guarantee for release of 50% Retention Money.

b) For contracts valuing 30 Crores or more:

If requested by the contractor, 50% of the Retention Money may be released at a stage when full amount of retention money (i.e. 5% of the contract value) has been recovered

at the stage when not less than 50% financial progress has been achieved against submission of Bank Guarantee for an equivalent amount by the Contractor in the performa annexed as Annexure-III from any Scheduled Bank in India. This Bank Guarantee shall be kept valid till the period of three months beyond the expiry of Defect Liability Period.

Where different defect liability periods are applicable to different parts of the works, the expression - "expiration of the defect liability period" shall for the purpose of this clause be deemed to mean the expiry of last of such periods.

9) INSURANCE

Depending on the nature of work, Contractor's All Risk (CAR) shall be obtained by Employer/Engineer at his own cost as per the requirement. Employer/Engineer may take necessary add on covers and voluntary excess specified elsewhere in the contract, which shall be binding on the Contractor. At the time of taking policy, possible time over-run, if any, may be taken into account in deciding the period/validity of the policy. The above insurance shall cover the risks normally covered under the CAR policy. Any item not covered under the above policy shall be the responsibility of the Contractor.

Contractor's claims, if any, shall be entertained within the scope of Insurance policy taken by Employer/Engineer. This will be subject to:-

Risk covered and voluntary excess selected by Employer/Engineer.

Claims on realisation shall be passed to the Contractor according to value of the claims accepted by the insurance company for his damaged portion of work after deducting 15% towards services

rendered by Employer/Engineer for processing the claim(s). The amount so disbursed to the Contractor(s) shall be limited to the amount calculated on the basis of his accepted rates in the contract with the Employer/Engineer.

Before commencing of works, it shall be obligatory for the Contractor to obtain, at his own cost, insurance cover in the joint name of the Contractor and Employer from reputed companies under the following requirements:

Liability for death of or injury to any person or loss of or damage to any property (other than the work) arising out the performance of the Contract.

Construction Plant, Machinery and Equipment brought to site by the Contractor.

Any other insurance cover as may be required by the law of the land.

The Contractor shall provide evidence to the Employer/Engineer before commencement of work at site that the insurances required under the contract have been affected and shall within 60 days of the commencement date, provide the insurance policies to the Employer/Engineer. The Contractor shall, whenever, called upon, produce to the Engineer or his representative the evidence of payment of premiums paid by him to ensure that the policies indeed continue to be in force.

The Contractor shall also obtain any additional insurance cover as per the requirements of the Contract.

The Employer/Engineer shall not be liable for or in respect of any damages or compensation payable to any workman or other person in the employment of the Contractor or his sub-contractor or petty contractor. The Contractor shall indemnify and keep indemnified the Employer/Engineer against all such damages and compensation for which the Contractor is liable.

The Policies of the Contractor shall remain in force throughout the period of execution of the works and till the expiry of the defect liability period except for any specific insurance covers necessary for shorter period.

If the Contractor fails to effect or keep in force or provide adequate cover as acceptable to the Engineer in the insurance policies mentioned above, then in such cases, the Engineer may effect and keep in force any such insurance or further insurance on behalf of the Contractor. The recovery shall be made at the rate of 1.5 times the premium/premiums paid by the Engineer in this regard from the payment due to the Contractor or from the Contractor's Performance Security. However, the Contractor shall not be absolved from his responsibility and/or liability in this regard.

10) COMMUNICATION BETWEEN EMPLOYER/ENGINEER AND CONTRACTOR

Instructions in writing

Instructions given by the Engineer shall be in writing, provided that if for any reason the Engineer considers it necessary to give any instructions orally, the Contractor shall comply with such instructions. Confirmation in writing of such oral instruction given by the Engineer, whether before or after carrying out of the instructions shall be deemed to be instructions within the meaning of this sub-clause.

The Contractor shall also be bound to carry out any instructions issued by Client as confirmed in writing by the Engineer.

All certificates, notices, written orders or letters, to be given by the Employer or the Engineer to the Contractor, shall be deemed to have been served, if the same are delivered to the Contractor or his authorized representative, or delivered or left at or posted by speed post/ registered post to the given address of the Contractor or Contractor's registered office or principal place of business and essentially delivering the same by e-mail to the Engineer duly attached with scanned copy of such certificates, notices, written orders or letters and Proof of Dispatch (POD) with a copy to Employer on nominated e-mail address. Such documents shall be deemed to have been received on the day they are left or delivered, or in the case of postal transmission, on the day they would ordinarily have reached but not exceeding 7 days from the date of posting inclusive of day of posting, in any case.

The contractor shall furnish his postal address/ registered office address and e-mail address for communication.

Notices to Employer and Engineer

All notices or letters to be given by the contractor to the Employer or to the Engineer, under the terms of the contract, shall be served by sending by Speed/Registered post or by delivering the same, to the respective nominated addresses and essentially delivering the same by e-mail to the Engineer duly attached with scanned copy of such notice (s) or letters and Proof of Dispatch (POD) with a copy to Employer on nominated e-mail address..

Change of Address

Either party may change the nominated address by prior written notice to the other party. However, either party shall not change their e-mail address during currency of the contract without obtaining prior obtaining mutual consent for doing so.

Change in constitution of Firm

In case of any change in the constitution of Contractor's firm, the same shall forthwith be notified by the Contractor to the Engineer and the Employer.

11) DUTIES OF ENGINEER AND ENGINEER'S REPRESENTATIVE

Duties and Authority of Engineer

The Engineer shall carryout the duties specified or implied in the Contract including issue of instructions, decisions, certificates and orders, as are specified in the contract, or necessary for

the observance/administration of the Contract and expeditious and timely completion of the work.

Duties and authority of Engineer's Representative

The Engineer's Representative shall be responsible to the Engineer. His duties are to supervise the work and to test and examine any materials to be used or workmanship employed in connection with the works. He can issue day to day instructions to the Contractor in Site Order Book, which should be noted and complied by the Contractor. He shall have no authority to relieve the Contractor of any of his duties or obligations under the Contract, nor except as expressly provided hereunder or elsewhere in the Contract, to order any work involving delay or any extra payment by the Employer, nor to make any variation of or in the works. He is authorised to measure the works for the purpose of payment.

12) GENERAL OBLIGATIONS OF THE CONTRACTOR

General Responsibility of the Contractor

The Contractor shall comply with the provisions of the Contract with due care and diligence design (to the extent provided for in the Contract), execute, complete and maintain the works and remedy the defects in accordance with the provisions of the Contract. The Contractor shall provide all superintendence, labour, materials, plant, & Equipment and all other things, whether of a temporary or permanent nature, required in and for such design, execution, completion and maintenance of works and rectification of any defects, as directed by the Engineer or his Representative.

Site Operations and Methods of Construction:

The Contractor shall take full responsibility for the adequacy, stability and safety of all site operations and method of construction .Provided that the Contractor shall not be responsible for the design and specifications of Permanent works or for the design or specifications of any temporary works provided by the Engineer. Where the Contract expressly provides that part of the Permanent Works shall be designed by the Contractor, he shall be fully responsible for that part of such works, notwithstanding any approval by the Engineer.

Appraisal of Errors / Omissions in the Drawings:

The Contractor shall promptly inform in writing to the Engineer of any error, omission, fault and other defects, in the design, drawings or specifications for the works which are noticed while reviewing the Contract documents or in the process of execution of the works.

Compliance with Regulations and Bye-laws:

The Contractor shall comply with the statutory provisions relating to the works, regulations and by-laws of any local authority and undertaking, including those controlling the utilities such as water supply, sewerage, telephones, power supply, etc., in whose jurisdiction the work is to be executed. The Contractor shall be bound to give all notices required by statute, regulations or bye-laws, as aforesaid. It shall be the responsibility of the Contractor to arrange all necessary clearances and approvals from the concerned authorities or undertakings before the work is taken up. However, assistance, if any, may be provided by Engineer/Employer/Client.

Contract Agreement:

The Contractor shall enter into and execute the Contract Agreement in the form of agreement (Annexure-I) within 28 days from the date of issue of Letter of Acceptance. The stamp papers of the requisite value as per the prevailing laws shall be provided by the Contractor at his own cost. Original agreement shall be retained by the Employer/Engineer and a certified copy shall be made available to the Contractor.

Contractor's Representative

When the Contractor is not in a position to be present, he shall keep responsible representative at site or work place during all working hours, who shall, on receiving a reasonable notice, present himself to the Engineer, Engineer's Representative or their Assistants. The instructions and orders given to the Contractor's representative shall be deemed to have the same force as if they have been given to the Contractor. The Contractor should furnish the necessary Power of Attorney in favour of his representative for the purpose of this clause. Failure on part of the Contractor to comply with this provision shall constitute a breach of Contract and may lead to action under clause 50.0.

13) SUBCONTRACTING

Subcontracting

The Contractor shall not subcontract the whole of the works. Except where otherwise provided in the Contract, the Contractor shall not subcontract any part of the works without the prior consent of the Engineer in writing. Any such consent shall not relieve the Contractor from any of his liability or obligation under the Contract and he shall be responsible for the acts, defaults and neglects of any subcontractor, his representative, servants or workmen as fully as if they were the acts, defaults or neglects of the Contractor.

Provided that the Contractor shall not be required to obtain such consent for

The provision of labour, or

The purchase of materials which are in accordance with the specifications/standards specified in the Contract, or

The subcontracting of any part of the works for which the subcontractor is named in the contract.

The purchase of Plants and Equipment for execution of the works.

The hiring of Plants and Equipment for execution of the works.

Any breach of the above conditions shall entitle the Employer/Engineer to rescind the contract.

Provided always that execution of specific works by petty contractors, or on piecework basis, under the personal supervision of the Contractor, shall not be deemed to be subcontracting under this clause.

14) PROVISIONS OF EFFICIENT AND COMPETENT STAFF

The Contractor shall employ and keep on the works at all times efficient and competent staff to give necessary directives to his workers to see that they execute works in a safe and proper manner. The Contractor shall employ only such supervisors and workmen as are capable, careful, and skilled. The Engineer shall be at liberty to object to and order the Contractor to remove forthwith from the works, any person employed by the Contractor in or about the execution of works or maintenance of works, who, in the opinion of the Engineer, misconducts himself or is incompetent or negligent in the proper performance of his duties or whose employment is otherwise considered by the Engineer to be undesirable and such person shall not be employed again in the works without the written permission of the Engineer. Any person so removed from the works shall be replaced as soon as possible by a competent substitute.

15) PROGRAMME OF WORK

The Contractor shall submit the programme for completion of work to the Engineer for his approval within 15 days from the date of receipt of letter of acceptance. Unless otherwise directed, the programme shall be in the form of Bar-Chart showing proposed execution of quantities of principal items of work. The programme shall be related to the capability of equipment proposed to be deployed and site conditions. The Contractor shall also provide in writing methodology for execution of major items of work as desired by the Engineer. The submission and approval of such programme shall not relieve the Contractor of any of his duties or responsibilities or obligations under the contract. The Engineer shall have full power and authority during the progress of work, to issue such instructions as may be necessary for the proper and adequate execution of the work.

16) COMMENCEMENT OF WORK

The Contractor shall commence the works within the time limit as specified in the Letter of Acceptance.

17) ACCESS TO SITE OF WORK

Access to Engineer

The Engineer or the Engineer's Representative, shall at all times have access to the works and to all workshops and places, where work is being performed and from where materials, manufactured articles or machinery are being obtained for the works, and the Contractor shall afford every facility and every assistance in obtaining the right to such access.

Access Road

The Contractor shall provide necessary access roads to the site of work, from the nearest public thoroughfare/right of way, at his own cost, unless otherwise provided for in the contract.

18) SETTING OUT

The Contractor shall be responsible for the true and proper setting out of the works using his own survey instruments, appliances and labour. If at any time during the progress of works, any error

appears or arises in any part of the work, the Contractor on being required to do so by the Engineer, shall at once rectify such error, to the satisfaction of the Engineer. The Contractor shall also provide all necessary assistance in the form of labour and materials to Engineer or his representatives for checking the set out with his own instruments. The checking of any setting out, or of any line or level by the Engineer's representative shall not in any way relieve the Contractor of his responsibility for the correctness thereof. The Contractor shall carefully protect and preserve all bench marks, reference pillars, pegs, and other things used in setting out the works.

19) TEMPORARY WORKS

All temporary works necessary for the proper execution of the works shall be provided and maintained by the Contractor at his own cost. All detailed working drawings, design, design calculations and fabrication drawings for important temporary works as decided by the Engineer, shall be prepared by the Contractor at his own cost and forwarded to the Engineer at least 30 days in advance of actual constructional requirements for his approval. Such approval shall not, however, relieve the Contractor of any of his responsibility in connection with the temporary works.

When the temporary works are no longer required, the Contractor shall remove the same at his own cost. In the event of failure on the part of the Contractor to remove the temporary works, the Engineer will cause them to be removed and cost incurred for removal, supervision, and other incidental charges shall be recovered from the Contractor.

20) SPECIFICATIONS AND DRAWINGS

The Contractor shall keep at site in good condition one copy of latest approved Specifications and Drawings and also such other Contract documents as may be necessary and make them available to the Client/Employer/Engineer or his Representative at all reasonable times. Any specification & drawing shall not be used on any other work or communicated to a third party by the Contractor.

Adherence to Specifications and Drawings

The work shall be executed in perfect conformity with the specifications and drawings of the Contract issued to the Contractor by the Engineer from time to time. If the Contractor does any work or part of work in a manner contrary to the specifications or drawings without the approval of the Engineer, he shall bear all the costs arising there from including dismantling and reconstruction strictly in accordance with the specifications and drawings and shall be responsible for all the losses/delays to the Employer/Engineer. The term drawings in this sub-clause also include the drawings prepared by the Contractor and approved by the Engineer.

Meaning & Intent of Specifications and Drawings

If any ambiguity arises as to the meaning and intent of any portion of the specifications and drawings or as to execution or quality of any work or material or as to the measurement of the works, the decision of the Engineer thereon shall be final and binding.

21) INDEMNITY BY THE CONTRACTOR

21.1 Indemnity against all actions of Contractor

The Contractor shall hold and save harmless and indemnify the Client/Employer/Engineer and their employees, from all actions, suits, proceedings, loss, costs, damages, charges, claims and demands of every nature and description brought against or recovered from the Client/Employer/Engineer and their employees by reason of any act or omission of the Contractor and/or his representative and/or his Employees and/or his sub-contractors in the execution of the works or in the guarding of the same. All the sums payable by Client/Employer/Engineer by way of compensation under any of these conditions, shall be recovered from the dues of the Contractor, without reference to the actual loss or damage sustained, and whether or not any damage shall have been sustained.

Indemnity against all Claims of Patent rights and Royalties

The Contractor shall hold and save harmless and indemnify the Client/Employer/Engineer, his officers and Employees from and against all claims and proceedings for or on account of infringement by the Contractor of copyright, any patent rights, design, trademark or name, secret process, patented or unpatented invention, articles or appliances manufactured or used for or in connection with the works and from and against all claims, proceedings, costs, damages, charges, and expenses whatsoever in respect thereof or in relation thereto. The Contractor shall pay all royalties, taxes, rent and other payments or compensation, if any, for getting the materials required for the works and due fulfilment of the contract and indemnify Client/Employer/Engineer against any claims in this regard.

22) DAMAGE TO LIFE AND PROPERTY:

The Contractor shall be responsible for all risks to works, nearby existing structures and life of his supervisors and workmen as also those of Employer/Client or any trespassers from whatever cause in connection with the works until these are taken over by Client/ Employer/ Engineer. The Contractor shall make good at his own expenses all loss or damages to life and property.

23) SAFETY OF PUBLIC AND PUBLIC UTILITIES

- i)** Existing road or water courses or any other utility shall not be blocked, cut through, altered, diverted or obstructed in any way by the Contractor, except with the permission of the Engineer. All compensation claimed by any Department/Organisation for any unauthorized closure, cutting through, alteration, diversion or obstruction to such roads or water courses by the Contractor or his staff shall be recovered from any moneys due to the Contractor.
- ii)** During progress of work in any street or thoroughfare, the Contractor shall make adequate provision for the passage of traffic, for securing safe access to all premises approached from such street or thoroughfare and for any drainage. Water supply, sewer lines, Electrical and Telecommunication cables/wires etc. which may be interrupted by reason of execution of works shall be protected/diverted and maintained by the Contractor at his own cost. Barriers, lights and other safeguards as prescribed by the Engineer for the regulation of traffic including watchmen necessary to prevent accidents shall be provided by the Contractor at his own cost.

- iii) The Contractor shall be responsible for taking all precautions to ensure safety of the public utilities and public in the vicinity of works and shall post such watchmen at his own cost as may, in the opinion of the Engineer, be necessary to comply with the regulations applying to the work and to ensure safety.
- iv) Should the Contractor fail to implement the provisions as required in the above sub-clauses, the Engineer may provide necessary arrangements and the cost of the same shall be recovered from the Contractor's payments/dues.

24) OTHER SAFETY PROVISIONS

24.1 Safety of Labour and others

The Contractor shall, at his own expense, arrange for the safety provisions as required by any law in force, in respect of the labour employed directly or indirectly for performance of the works, and shall provide all facilities in connection therewith.

24.2 Safety of works

The Contractor shall provide and maintain at his own cost, all lights, guards, signage, signalmen, fencing and watching arrangements when and where necessary, or as required by the Engineer for the protection of the works or for safety and convenience of those employed on works or of the public.

24.3 Mere observance of these precautions shall not absolve the Contractor of his liability in case of loss or damage to property, or injury to or death of any employee/labour of Contractor, Client or Employer/Engineer or any member of the public.

24.4 Recovery of the cost from the Contractor

Should the Contractor fail to implement the provisions as required in the preceding sub-clauses 24.1& 24.2, the Engineer may provide necessary arrangements and the cost of the same shall be recovered from the Contractor's payments/dues.

25) PROTECTION OF ENVIRONMENT

During execution of works, the Contractor and his sub-contractors, petty contractors shall abide at all times by all existing enactments on environmental protections and rules made there under, regulations, notifications and bye-laws of the State or Central Government or local authorities and any other law, bye-law, regulation that may be issued in this respect in future by the State or Central Government or local authority. Salient features of some of the laws that are applicable are given below:-

- i)** The Water (Prevention and Control of Pollution) Act, 1974: This provides for the prevention and control of water pollution and maintaining and restoring of wholesomeness of water. "Pollution" means such contamination of water or such alteration of the physical, chemical or biological properties of water or such discharge of any sewage or trade effluent or of any other liquid, gaseous or solid substance into water (whether directly or indirectly) as may, or is likely to, create a nuisance or render such water harmful or injurious to public health or safety, or to domestic, commercial, industrial, agricultural or other legitimate uses, or to the life and health of animals or plants or of aquatic organisms.
- ii)** The Air (Prevention and Control of Pollution) Act, 1981: This provides for prevention, control and abatement of air pollution. "Air Pollution" means the presence in the atmosphere of any "air pollutant", which means any solid, liquid or gaseous substance (including noise) present in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment.
- iii)** The Environment (Protection) Act, 1986: This provides for the protection and improvement of environment and for matters connected therewith, and the prevention of hazards to human beings, other living creatures, plants and property. Environment includes water, air and land and the inter-relationship which exists among and between water, air and land, other living creatures, plants, micro-organism and property.
- iv)** The Public Liability Insurance Act, 1991: This provides for public liability insurance for the purpose of providing immediate relief to the persons affected by accident occurring

while handling hazardous substances and for matters connected herewith or incidental thereto. Hazardous substance means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act, 1986, and exceeding such quantity as may be specified by notification by the Central Government.

26) CARE OF WORKS

From the commencement of the work until completion, acceptance and final takeover of the works by the Engineer, the Contractor shall take full responsibility for the care of all works including temporary works. In case any damage, loss or injury happens to the work or to any temporary works from any cause whatsoever, the Contractor shall at his own cost repair and make good the same so that on completion and at the time of final take over, the work shall be in good condition and in conformity in every respect with the requirements of the contract and the Engineer's instructions.

27) USE OF EXPLOSIVES

Explosives shall not be used on the works or site by the Contractor without the written permission of the Engineer and only in the manner and to the extent such permission is given. When explosives are required for works they shall be stored in a special magazine, to be provided by the Contractor at his own cost, in accordance with the provisions of law on Explosives. The Contractor shall take all precautions in using the explosives and prevent damage to nearby properties and utilities. The Contractor shall also obtain necessary license for the storage and the use of explosives from the concerned authorities. All operations in which or for which explosives are used shall be at the risk and responsibility of the Contractor and the Contractor shall indemnify the Client/Employer/ Engineer and their employees in respect thereof.

28) OCCUPATION AND USE OF LAND

No land belonging to or in the possession of the Client/Employer/Engineer shall be occupied by the Contractor without written permission of the Engineer. The Contractor shall not use, or allow the site to be used for any purpose other than that of executing the works.

29) EXCAVATED MATERIALS

The Contractor shall not use, sell or otherwise dispose off, or remove, except for the purpose of this Contract sand, clay, ballast, earth, rock or any other substance or materials, which may be obtained from any excavation made. All such items shall be the property of the Client. The Contractor may be permitted by the Engineer to use the same for the purpose of works on mutually agreed payment terms.

30) RELICS AND TREASURES

All gold, silver, coins, oil and other minerals of any description, and precious stones of all kinds, treasures, antiques, fossils and other similar things, which shall be found in or at site, shall be the property of the Client and the Contractor shall duly preserve the same to the satisfaction of the Engineer, and from time to time deliver the same to such person or persons, as the Client/Engineer may appoint to receive the same.

31) CO-OPERATION WITH OTHER CONTRACTORS

The Contractor shall in accordance with the requirements of the Engineer, cooperate with and afford all reasonable opportunities for carrying out the work by other Contractors engaged by the Client/Employer/Engineer or any other Authority.

32) WORK DURING NIGHT

Unless specifically provided elsewhere in the Contract, the Contractor shall not carry out any work between sunset and sunrise without the prior permission of the Engineer. In case of any grave emergency or in order to avoid risk to property and life or to prevent damage to utilities or to restore them, work may be done at night also without the prior permission of the Engineer, but intimation to this effect should be sent to him immediately. No increase in rates or extra payment shall be admissible for the night work. The Contractor shall make adequate lighting and safety arrangements for night working. He shall also be responsible for any claim on account of any injury to or loss of life, of any one, arising out of inadequate lighting, safety arrangements or due to any other failure of the Contractor.

33) SHEDS, STORES, YARDS

The Contractor shall at his own expense provide and maintain sheds, store-houses and yards at such locations and in such numbers as in the opinion of the Engineer are necessary for carrying out the works. The Engineer and the Engineer's representatives shall have free access to the said sheds, storehouses and yards at any time for the purpose of inspecting the stock of materials and plant so kept in hand. Any materials or plant which the Engineer may object to shall not be brought upon or used in the works and shall forthwith be removed from the sheds, storehouses or yards by the Contractor.

34) ENGINEER'S MATERIALS

34.1 Materials to be supplied by the Engineer

After the acceptance of tender, the Contractor shall make request in writing to the Engineer for the materials to be supplied by the Engineer, if any, in accordance with the approved programme for execution of works.

34.2 Cost to be borne by Contractor

The materials shall be issued to the Contractor at the Engineer's depots or near the project site. The Contractor shall bear the cost of loading, transporting to site, unloading, storing safely under cover, as required.

34.3 Return of surplus materials

All surplus materials issued to the Contractor by the Engineer for use, incorporation or fixing in the works (including preparatory works, if any) shall, on completion of or before closure of works, be returned by the Contractor at his expense. However, the materials considered unserviceable by the Engineer shall not be taken back.

34.4 Credit for returned materials

Surplus materials returned by the Contractor in acceptable condition to the Engineer shall be credited to the Contractor by the Engineer.

34.5 Accountable of the materials issued by the Engineer including recovery etc. shall be in accordance with the Special Conditions of Contract.

35) TOOLS, PLANT AND EQUIPMENT

Except for any specific item mentioned in the contract, the Contractor shall have to make his own arrangements, at his own cost, Plant, Machinery and Equipment required for execution and completion of all works to the entire satisfaction of the Engineer. This shall also include all other associated equipment, tools/tackles, spare parts, POL, consumables, stores, manpower as required for the execution of works.

36) PLANT AND MATERIALS OF THE CONTRACTOR

36.1 Contractor's plant/materials at site to be exclusive to the work

All constructional plant and materials brought on the site by the Contractor be deemed to be exclusively intended for the execution of the work or part of the work and the Contractor shall not remove the same without the permission of the Engineer till completion of work or part of work.

36.2 Removal of constructional plant/materials from site

Upon completion of the works, the Contractor shall remove from the site all the said constructional plant remaining thereon and unused materials belonging to the Contractor.

36.3 Loss or damage to constructional plant/materials

The Employer/Engineer shall not at any time be liable for the loss of or damage to any of the said constructional plant, temporary works or materials.

36.4 Assistance to Contractor for re-export of plant

In respect of any constructional plant which the Contractor shall have imported for the purposes of the works, the Employer/Engineer may assist the Contractor, where required in procuring any necessary government consent for re-export of such constructional plant by the Contractor after the completion of the works.

36.5 Assistance to Contractor for customs clearance

The Employer/Engineer may assist the Contractor, where required, in obtaining clearance through the customs of constructional plant, material and other things required for the works. This shall not dilute in any way the Contractors' obligations and responsibilities under the contract.

37) CONTRACTOR TO KEEP SITE CLEAR

During the progress of works, the Contractor shall keep the site reasonably clean and free from obstructions and shall store neatly construction plant and materials.

38) HEALTH AND SANITARY ARRANGEMENTS FOR WORKERS

No quarters shall be provided by the Employer/Engineer for the accommodation of Contractor or any of his staff employed on works.

Provision of labour Camp

The Contractor, shall, at his own expense, make adequate arrangements for the housing, supply of drinking water, electricity, canteen and provision of latrines and urinals, for his staff and workmen employed on the work, directly or through petty Contractors or sub-Contractors and for temporary crèche (Bal-mandir) where 50 or more women are employed at a time. All camp sites shall be maintained in clean and good sanitary conditions, by the Contractor, at his own cost.

Compliance with Rules for employment of labour

The Contractor shall comply with all laws, bye-laws, rules and regulations in force, pertaining to employment of local or imported labour, and shall take all necessary precautions to ensure and preserve the health and safety of all staff/workmen, employed on the works directly or through petty Contractors or sub-Contractors.

Medical facilities at site

The Contractor shall, at his own cost, provide first aid and medical facilities at site as may be prescribed by the Engineer.

Use of Intoxicants

No sale of alcoholic drinks and/or intoxicating drinks or drugs shall be permitted by the Contractor at or near the site. The Contractor shall also ensure that no labour or employee is permitted to work at the site in an intoxicated state or under the influence of any drugs or drinks.

39) ENGAGEMENT OF LABOUR

The Contractor shall make his own arrangements for the engagement of all labour, except as provided otherwise in the contract.

The Contractor shall not employ any labour below the age prescribed in any labour legislation, directly or through petty Contractors or sub-Contractors, for execution of the work.

40) WAGES OF LABOUR

40.1 Wages under relevant laws

In dealing with labour and employees, the Contractor and his subcontractors (including piece rate and petty Contractors) shall comply fully with all laws and statutory regulations such as -

Workmen's Compensation Act, 1923
Payment of Gratuity Act, 1972
Employees Provident Funds and Miscellaneous Provisions Act, 1952
Maternity Benefits Act, 1951
Contract Labour (Regulations and Abolition) Act, 1970
Minimum Wages Act 1948
Payment of Wages Act 1936
Equal Remuneration Act 1979
Payment of Bonus Act 1965
Industrial Dispute Act 1947
Industrial Employment (Standing Orders) Act 1946
Trade Union Act 1926
Child Labour (Prohibition and Regulation) Act 1986
Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act 1979

The Buildings and Other Construction Workers (Regulation of Employment and Conditions of Service) Act 1996 and Cess Act of 1996. The Factories Act 1948.

and other laws or Regulations framed by competent legislative authorities from time to time as may be applicable. In accordance with the various Acts and Regulations with all upto date amendments, the Contractor shall ensure that he and his subcontractors (including petty and piece rate Contractors) observe strictly inter-alia the following:

Wages paid are not less than those prescribed.

Wages and other dues are paid regularly and in time.

Liens/licenses are obtained as required under any of the acts or regulations.

Maintain prescribed records, submit necessary statements to authorities concerned and display required notices.

Take prompt action on any instructions / directions from the authorities under various labour laws.

40.2 Claims on account of violation of labour laws

If any moneys shall as a result of any instructions, directions or decisions from the authorities or claim or application made under any of the labour laws or regulations be directed to be paid by the Engineer because of any failure of the Contractor, such moneys shall be deemed to be moneys payable to the Engineer by the Contractor and on failure of the Contractor to repay the Engineer any moneys paid or to be paid as aforesaid within seven days after the same shall have been demanded, the Engineer shall be entitled to recover the amount from any moneys due or becoming due to the Contractor under this or any other contract with the Employer. The Engineer shall not be bound to contest any such claim or demand unless the Contractor makes a written request for it, and Contractor's reasons for contesting are considered reasonable by the Engineer and the Contractor deposits the full cost that the Engineer may have to incur in contesting the case.

41) REPORTING OF ACCIDENTS INVOLVING LABOUR

The Contractor shall be responsible for safety of all employees/labour employed by him on works, directly or through petty Contractors or sub-Contractors and shall report accidents, occurring on works to the Engineer or the Engineer's representative, and shall make every

arrangement to render all possible assistance and to provide prompt and proper medical attention. In case of fatal accident, it will be Contractor's responsibility to report accident to police keeping the Engineer advised of the same. The compensation for affected workers or their relatives shall be paid by the Contractor in such cases with utmost expedition in accordance with the Workmen's Compensation Act.

42) SUPPLY OF WATER AND ELECTRIC POWER

Unless otherwise provided elsewhere in the Contract, the Contractor shall be responsible for making arrangements at his own cost to obtain supply of water and/or electrical power, necessary for execution of the works and during defect liability period. In the event the Engineer is in a position to supply water or electrical power, or both, required for works, such supply shall be given only at one point. The cost of making necessary arrangements to the Engineer's distribution system and laying of necessary pipe line, specials, valves, meters etc. for water supply or the laying of underground/overhead conductor, circuit protection, electric power meters and transmission structures in case of electric power shall be borne by the Contractor. The Contractor shall also bear the running cost of water and power supplied, the rates for which shall be determined and notified by the Engineer. The decision of the Engineer on such cost shall be final and binding. Any increase in water/power tariff by supplying agencies shall also be borne by the Contractor.

43) REPAIR TO DAMAGES

The Contractor shall be responsible for rebuilding/repairs of any damage by any reasons not attributable to the design defect (where design is supplied by Engineer/Client) during execution of works or Defect Liability Period. In case the Contractor is unable or unwilling to execute such repair works promptly, the Engineer may get the same done by engaging another agency or using labour, materials and resources as may be considered necessary and the cost of such remedial works shall be recovered from the Contractor's dues. The decision of the Engineer regarding reasons of the damage shall be final and binding.

44) IMPLEMENTATION OF QUALITY, SAFETY, HEALTH AND ENVIRONMENT MANAGEMENT SYSTEM

Contractor shall provide and ensure the use of safety gadgets like Safety- shoes, helmets, gloves, jackets, mask etc. as required for all workers and staff. The Contractor shall provide and erect safety barricades as required, display safety posters and instructions regarding safety.

The Contractor shall prepare a Project Safety Manual and get it approved by the Project Head. The Contractor will own the ultimate responsibility of all aspects of Safety, Health and Environmental upkeep of the work place and its surroundings.

The Contractor will facilitate safety checks and checks on compliance to all the norms as per the Project Safety Manual by PH or the nominated Safety Officer at regular interval.

The Employer may, at their discretion undertake such corrective measures as deemed fit for immediate restoration of safe conditions at the work place at the cost of the Contractor and recover the cost from Contractor's running bills. The contractor will keep the Employer indemnified against any corrective action by the Employer. In addition to such recourse, the

penalty for each violation will be enforced as under, without issuing any show cause notice for the same:-

S. N.	Nature of Violation	Penalty
1.0	Non preparation of Site Safety Plan before the first running bill.	Rs. 10,000/-
2.0	Violation of safety norms pointed out by inspecting officials, such as deficient documentations or safety gadgets or lack of supervision/ process control etc.	Rs.10,000/- for each violation subject to maximum 1% of the contract value in all.
3.0	Injury to worker leading to stoppage of work	Rs. 25,000/- for each case
4.0	Fatalities to workers at work related accidents	Rs. 5.0 Lakh for each mortality
5.0	Repetition of violation	May lead to termination of work

The Contractor shall arrange timely calibration of all his measuring and testing equipment at his own cost from reputed laboratory and supply of calibration certificates to the Engineer.

The Contractor shall ensure maintenance and overhauling of all his plant and machinery as per guidelines issued by manufacturer/ vendor/ Engineer.

The Contractor shall arrange to provide test certificates issued by manufacturers of materials supplied by him and also arrange the testing of materials from approved laboratory at his own cost, as required and supply test certificates to the Engineer.

The Contractor shall provide work instructions/ check lists for proper execution of work. The Contractor shall also maintain all relevant records and documents properly and same shall be made available to the Engineer as required.

45) MATERIALS AND WORKMANSHIP

45.1 Material and workmanship as per Specifications

- i.** All materials and workmanship shall be as per the contract and in accordance with the Engineer's instructions and shall be subjected to such tests as the Engineer may direct. The Contractor shall provide all such assistance, instruments, machines, labour and materials required for examining, measuring and testing any work and materials used. The Contractor shall supply samples of material before incorporating in the works for testing as may be selected and required by the Engineer.
- ii.** The sources of materials to be used in the works shall be intimated to the Engineer and are subject to his approval.

45.2 Supply of sample

All samples shall be supplied by the Contractor at his own cost.

45.3 Cost of tests of Materials and Workmanship

The cost of carrying out any tests in a reputed laboratory as acceptable to the Engineer shall be borne by the Contractor except for the materials to be supplied by the Engineer.

46) REMOVAL OF IMPROPER MATERIALS AND WORKS

- i. The Engineer shall have the authority to order in writing from time to time:

The removal from site within specified time, of any material, which in the opinion of the Engineer, is not in accordance with the Specifications and Conditions of the Contract.

The substitution of defective material by approved quality material; and

The removal and proper re-execution, notwithstanding any previous decision or interim payment thereof, of any work which in respect of materials or workmanship is not, in the opinion of the Engineer, in accordance with the contract.

In case of default on the part of the Contractor in carrying out such order, the Engineer shall be entitled to get the same done by engaging another agency or by deploying labour, materials and other resources. All such cost shall be recovered from the Contractor's dues.

47) EXAMINATION OF WORK BEFORE COVERING UP

No work or part of work shall be covered up or put out of view, without the prior approval of the Engineer or the Engineer's representative. If any work shall be covered up or put beyond the reach of inspection/measurement without the prior approval of the Engineer or Engineer's representative, the same shall be uncovered by the Contractor at his own cost.

48) SUSPENSION OF WORKS ORDERED BY THE ENGINEER

The Contractor shall, on the order of the Engineer, suspend the works or any part thereof, for such time, and in such manner, as the Engineer may consider necessary, and shall during such suspension, properly protect and secure the works so far as it is necessary in the opinion of the Engineer.

The Contractor shall not be entitled to extra cost, if any, incurred by him during such suspension if such suspension is on account of weather conditions or requirement for execution of works or provided for in the Contract or for less than 30 days at a time for any other reason. The Contractor shall, however, be entitled for extension of time for completion of work as the Engineer may consider proper having regard to the period of suspension. However, if the suspension is ordered by the Engineer due to any default of the Contractor such as defective materials, workmanship etc., the Contractor shall not be entitled to any extension or extra cost incurred.

49) DELAY AND EXTENSION OF CONTRACT PERIOD

The time allowed for execution and completion of the works or part of the works as specified in the contract, shall be essence of the contract on the part of the Contractor.

As soon as it becomes apparent to the Contractor, that the work and / or portions thereof (required to be completed earlier), cannot be completed within the period(s) stipulated in the contract, or the extended periods granted, he shall forthwith inform the Engineer and advise him of the reasons for the delay, as also the extra time required to complete the works and / or portions of work, together with justification thereof. In all such cases, whether the delay is attributable to the Contractor or not, the Contractor shall be bound to apply for extension well within the period of completion/extended period of completion of the whole works and / or portions thereof.

Extension due to modifications

If any modifications are ordered by the Engineer or site conditions actually encountered are such, that in the opinion of the Engineer the magnitude of the work has increased materially, then such extension of the stipulated date of completion may be granted, as shall appear to the Engineer to be reasonable.

Delays not due to Employer/Contractor.

If the completion of the whole works (or part thereof which as per the contract is required to be completed earlier), is likely to be delayed on account of:

Any force majeure event referred to in Clause 71.0 or

Delay on the part of other Contractors engaged directly by the Client/Employer, on whose progress the performance of the Contractor necessarily depends or any relevant order of court or Any other event or occurrence which, according to the Engineer is not due to the Contractor's failure or fault, and is beyond his control;

The Engineer may grant such extensions of the completion period as in his opinion is reasonable.

49.5 Delays due to Employer/Engineer.

In the event of any failure or delay by the Employer/Engineer in fulfilling his obligations under the contract, then such failure or delay, shall in no way affect or vitiate the contract or alter the character thereof; or entitle the Contractor to damages or compensation thereof but in any such case, the Engineer shall grant such extension or extensions of time to complete the work, as in his opinion is / are reasonable.

49.6 Delays due to Contractor and Liquidated Damages:

If the delay in the completion of the whole works or a part of the works, beyond stipulated completion period, is due to the Contractor's failure or fault, and the Engineer feels that the remaining works or the portion of works can be completed by the Contractor in a reasonable and acceptable short time, then, the Engineer may allow the Contractor extension or further extension of time, for completion, as he may decide, subject to the following:

Without prejudice to any other right or remedy available to the Engineer, recover by way of liquidated damages and not as penalty, a sum equivalent to quarter of one percent (0.25%) of the contract value of the works, for each week or part of a week the Contractor is in default.

If the delay relates only to a portion of the works with a separate and earlier completion period, the contract value shall be restricted to the cost of that portion of the works only.

The recovery on account of compensation for delay shall be limited to 5% of the contract value of the works, or the portion of the works, as the case may be.

The recovery of such damages shall not relieve the Contractor from his obligation to complete the work or from any other obligation and liability under the contract.

49.7 Engineer's decision on compensation payable being final

The decision of the Engineer as to the compensation, if any, payable by the Contractor under this clause shall be final and binding.

49.8 Time to continue to be treated as the essence of contract in spite of extension of time.

It is an agreed term of the contract that notwithstanding grant of extension of time under any of the sub-clauses mentioned herein, time shall continue to be treated as the essence of contract on the part of the Contractor.

50) DETERMINATION OF CONTRACT DUE TO CONTRACTOR'S DEFAULT

Conditions leading to determination of contract

If the Contractor

- a.** becomes bankrupt or insolvent, or,
- b.** makes arrangements with or assignment in favour of his creditor, or agrees to carry out the contract under a committee of inspection of his creditors or
- c.** being a company or corporation goes into liquidation by a resolution passed by the Board of Directors/ General Body of the share-holders or as a result of court order (other than voluntary liquidation for the purpose of amalgamation or reconstruction) ; or
- d.** has execution levied on his goods or property or the works, or
- e.** assigns or sublets the contract or any part thereof otherwise than as provided for under conditions of this contract, or
- f.** abandons the contract, or
- g.** persistently disregards instructions of the Engineer or contravenes any provisions of the contract, or

- h.** fails to adhere to the agreed programme of work or fails to complete the works or parts of the works within the stipulated or extended period of completion, or is unlikely to complete the whole work or part thereof within time because of poor record of progress; or
 - i.** fails to remove materials from the site, or pull down and replace work, after receiving notice from the Engineer to the effect that the said materials or works have been condemned or rejected, or
 - i** fails to take steps to employ competent and/ or additional staff and labour, or
 - j.** fails to afford the Engineer or his representative proper facilities for inspecting the works or any part thereof, or
- promises, offers or gives any bribe, commission, gift or advantage, either himself or through his partners, agents or servants to any officer or employee of the Engineer or the Employer, or to any person on their behalf, in relation to obtaining or execution of this or any other contract with the Employer, or
- l.** suppresses or gives wrong information while submitting the tender.

In any such case the Engineer on behalf of the Employer may serve the Contractor with a notice in writing to that effect and if the Contractor does not, within 7 days after delivery to him of such notice, proceed to make good his default in so far as the same is capable of being made good, and carry on the work or comply with such instructions as aforesaid to the entire satisfaction of the Engineer, the Employer shall be entitled after giving 48hours notice in writing to terminate the contract, as a whole in terms of sub-clause no. 8.4(b) and 8.4(c).

- ii.** In such a case of termination, the Employer/Engineer may adopt the following courses
 - a)** Take possession of the site and any materials, constructional plants, equipment, stores, etc.
 - b)** Measure up the balance work from which the Contractor has been removed, and get it completed by another Contractor. The manner and method, in which such work is to be completed, shall be entirely at the discretion of the Engineer whose decision shall be final and binding.
 - c)** Carry out the balance work from which the Contractor has been removed, by the employment of the required labour, materials, plants and equipment and other resources.

Entitlement of Employer/Engineer:

In cases described in sub-clause 50.1 (ii) above, the Employer/Engineer shall be entitled to forfeit the Security Deposit and encash the Performance Security amount as a whole in terms of sub-clause no.: 8.4.

51) DETERMINATION OF CONTRACT ON EMPLOYER/ENGINEER'S ACCOUNT:

The Employer/Engineer shall be entitled to determinate the contract, at any time, should, in the Employer/Engineer's opinion, the cessation of works becomes necessary, owing to paucity of funds or due to court orders or from any other cause whatsoever. Notice in writing from the Employer/Engineer of such termination and reasons therefore, shall be conclusive evidence thereof. In such a case, the value of approved materials actually brought to the site and of work done upto date by the Contractor, shall be paid for in full by the Employer/Engineer, at rates specified in the contract. If rates for any materials or items of work are not available in the contract, these shall be fixed by the Engineer in terms of clause 59.0.

In case of determination of contract on Employer/Engineer's account as described above, the claims of the Contractor towards expenditure incurred by him in the expectation of completing the whole works, shall be admitted and considered for payment as deemed reasonable and are supported by the documents/vouchers etc. to the satisfaction of Employer/Engineer. The decision of the Employer/Engineer on the necessity and propriety of such expenditure shall be final and conclusive.

However, the Contractor shall have no claim to any payment of compensation or otherwise, on account of any profit or advantage which he might have derived from the execution of the work in full but which he could not in consequence of determination of contract under this clause.

Plant, Equipment and tools as well as unutilized materials supplied by the Employer / Engineer to the Contractor shall be returned in acceptable conditions at Engineer's depot at Contractor's cost. The Engineer shall be entitled to recover the cost of unreturned Plant, Equipment and tools as well as unaccounted materials from the Contractor. The amount to be recovered from the Contractor shall be decided by the Engineer whose decision in this regard shall be final and binding. The Contractor shall have to pay back unrecovered portion of advances made to him, together with accrued interest there on. In case, the Contractor defaults, the Engineer shall recover the amounts from any payment due to the Contractor, or from the Performance Security or by encashing the Bank Guarantees given by the Contractor for securing the advances or for any other purpose. This is without prejudice to other remedies available to the Employer/Engineer.

52) DEATH OF CONTRACTOR/ PARTNER

If the Contractor is an individual or a sole proprietary concern, and the individual or a sole proprietor dies, or if the Contractor is a partnership concern and one of the partners dies, in that case, unless the Employer/Engineer is satisfied that the legal representative of the individual Contractor or of the sole proprietor, as the case may be, or in the case of partnership firm, all surviving partners are capable of carrying out and completing the contract, the Employer/Engineer shall be entitled to rescind the contract as to its incomplete part. In that event, the Employer/Engineer shall not be liable to pay any compensation to the legal heirs of the deceased Contractor and / or to the surviving partners of the Contractor's firm, on account of such cancellation of contract. The Engineer's decision as to whether the legal representatives of the deceased Contractor or surviving partners of the Contractor are capable of carrying on and completing the contract shall be final and binding on the parties. Provided further that the legal representatives of the deceased Contractor or the surviving partners shall also not be liable to pay any damages, alleged or actually suffered by the Employer/Engineer, in respect of incomplete part of the contract. Any liability incurred by the deceased Contractor, or by the deceased partner

of the contracting firm, before his death, shall be recovered from the legal representatives of the deceased Contractor or from the surviving partners of the said contracting firm as the case may be.

53) EMPLOYMENT OF RETIRED OFFICERS / ENGINEER OF EMPLOYER / ENGINEER

No Officer/Engineer of the Employer is allowed to work as a Contractor or his employee for a period of two years after his retirement/resignation from the service of the Employer without the prior permission of the Employer.

54) MODIFICATION TO CONTRACT

In the event of any provisions of the contract requiring to be modified after the agreement has been signed, the modifications shall be made in writing and signed by the Employer/Engineer and the Contractor or his authorised representative. Such modifications will not be effective until the same have been signed by both the parties. Any verbal or written arrangements for abandoning, modifying extending, reducing or supplementing the contract, or any of the terms thereof shall be deemed to be provisional and shall not be binding on the Employer/Engineer unless and until the same are incorporated in a formal instrument and signed by the Employer/Engineer and the Contractor.

55) MODIFICATIONS TO WORK

The Engineer shall be competent to order in writing to enlarge or extend, diminish or reduce the works or make any alterations in their design, character, position, site, quantities, dimensions or in the method of execution or use of materials for the execution thereof and to any additional works to be done or any work not to be done.

The enlargement, extension, diminution, reduction, alterations or additions, referred to above shall in no way affect the validity of the contract, but shall be performed by the Contractor as provided therein and be subject to the same conditions, stipulations, obligations and rates as if they had been originally and expressly included and provided for in the Bill of Quantities, specifications and drawings, and the amount to be paid thereof shall be calculated in accordance with accepted rates and other extra items of works at the rates, determined as per contract. However, the rates of quantities exceeding 25% of those provided in Bill of Quantities shall be finalised as per clause 58 of these conditions.

56) RATES FOR ITEMS OF WORK TO BE ALL INCLUSIVE

56.1 The rates entered in the accepted Bill of Quantities of the Contract, shall be all-inclusive and provide for works duly and properly completed in accordance with terms and conditions of the Contract and processes as mentioned in specifications and drawings (including revised drawings), relevant codes whether mentioned or not in the nomenclature of the item in Bill of Quantities. All rates quoted in the tender shall also deemed to include except specifically provided otherwise in the Contract:

All materials, labour, tools and plant, stores, centering, shuttering, etc.

Construction/Erection, maintenance and removal of all temporary works.

All watching, lighting, pumping and draining unless otherwise provided for.

- All barriers and arrangements for safety of the property, utilities, public or employees/workers during the execution of works.
- All sanitary and medical arrangements for labour camps.
- The setting out of all works of construction, repair and up-keep of all centre lines, benchmarks, reference pillars etc.
- Site clearance except specifically provided otherwise in the Contract.

56.2 Nothing extra shall be payable over the quoted rates, except as specifically provided in the Contract.

56.3 All rates quoted in the Bill of Quantities shall be deemed to be inclusive of all types of direct and indirect taxes imposed by Central/State Govt. and local bodies such as excise duty, sales tax, value added tax (VAT), Works contract tax, Service tax, Royalties, Duties, Cess, Octroi and other levies as applicable and also include all import duties. The rates shall also be inclusive of all taxes, duties and other charges imposed outside the country on the production, manufacture, sale and transport of the Contractor's equipment, plant, materials and supplies to be used on or furnished under the contract and on the services performed under the contract. No additional amount shall be paid or claim be entertained on this account by Employer/Engineer.

56.4 The Contractor shall bear the cost of all royalties, fees and other payments in respect of patents, patents right and license(s) which may be payable to patentee, licensee or other person or corporation and shall obtain all necessary licenses/ permissions. In case of any breach (whether willfully or inadvertently) by the Contractor of this provision, the Contractor shall indemnify Employer, Engineer and their employees against all claims, proceedings, damages, costs, charges, loss and liability which they or any of them may sustain, incur or be put to by reason or in consequence directly or indirectly of such breach and against payment of any royalties, damages or other money which the Employer/Engineer may have to make to any persons or pay in total to the patent rights in respect of the users of any machine, instruments, process, articles matter or thing constructed, manufactured, supplied or delivered by the Contractor under this contract.

57) ACCEPTED RATE APPLICABLE TILL THE COMPLETION OF WORK

The rates as per the accepted Bill of quantities, shall be firm and hold good till the completion of the works, and no additional claim or amount shall be admissible on account of fluctuations in market rates, increase in taxes, levies, fees royalties etc. unless specifically provided for in the Contract.

58) VARIATION IN QUANTITY OF ITEMS COVERED BY THE BILL OF QUANTITIES

58.1 The quantities of items shown in the Bill of Quantities are approximate, and liable to vary during the actual execution of the work. The Contractor shall be bound to carry out and complete the stipulated work, irrespective of the variations in individual items, specified in the Bill of Quantities.

58.2 Such variations in quantities shall be paid for in the manner laid down below:

In case the variation in individual items goes beyond (+)25% in respect of the specialized nature of works like tunneling works, Earthwork including rock blasting in hilly terrain for construction of access roads and the consequential works like protection works etc., where it is not possible to prepare fairly accurate estimate of quantities before award of the contract and it is not practical to bring a new agency for doing the increased quantity of work beyond (+)25% variation, 1% reduction in the accepted rate will be effected for payment to the Contractor beyond (+)25% variation and upto (+)50% variation.

In other works where it is generally possible to work out fairly accurate estimate before award of the contract, 2% reduction in the accepted rate will be effected beyond (+)25% variation and upto (+)50% variation.

In case the variation in individual items is more than (+)50%, the rate for the increased quantities beyond (+)50% shall be negotiated between the Engineer and the Contractor. Provided further that for the quantities exceeding (+)50% of each item of Bill of Quantities, the Engineer shall have a right to get these executed from any other agency or by his own labour, materials and resources.

Decrease in quantity of individual items upto (-)50% due to site conditions shall not form ground for revision of rates or claim on this account. Beyond (-)50% variation, rate shall be negotiated between the Engineer and the Contractor.

The above limit of variation shall not be applicable for small value items and no negotiations for rates for such items shall be done. Small value items shall be those items whose sum, starting from the lowest value item, is upto 2% of the original contract value and shall be decided between the Engineer and the Contractor.

As far as BOQ/SOR items are concerned, the limit of 25% would apply to the value of BOQ/SOR schedule as a whole and not on an individual BOQ/SOR items. However, in case of NS items, the limit of 25% would apply on the individual items irrespective of the manner of quoting the rate (single percentage rate or individual item rate).

59) ITEMS NOT INCLUDED IN THE BILL OF QUANTITIES

59.1 If any item of work not provided for in the accepted Bill of Quantities and required to be executed for completion of work, the Contractor on receipt of instructions from the Engineer, shall be bound to carry out such items of work at the rates to be decided as per sub-clause 59.2 and 59.3.

59.2 The rate for such extra items shall be derived from rate for similar items available in the accepted Bill of Quantities.

59.3 In case rates cannot be derived from the accepted Bill of Quantities, the rate may be worked out on the following basis:

Cost of materials and consumables at current market rates, as actually utilised in the final finished permanent work, including a reasonable percentage for wastage and cost of loading, unloading and transportation.

Cost of labour required for the work.

Hire charges for plant and machinery, scaffolding, shuttering, forms, etc. required to be used at the site of the work.

An amount of 10% of items (a), (b) and (c) above to allow for Contractor's overheads, profits and other contingencies.

59.4 In all cases where extra items of work are involved, for which there are no rates in the accepted Bill of Quantities, the Contractor shall give a notice to the Engineer, of at least 7 days before the need for their execution arises.

Such a notice shall not however be necessary if the Engineer has already instructed in writing to take up such an item of work. To decide the rate, the Contractor shall furnish detailed analysis of the rates on the lines mentioned in sub-clause 59.2 and 59.3 above and attend a meeting with Engineer to settle the rate as and when called for. The Contractor shall be bound to furnish the requisite details and to attend the meeting.

59.5 Provisional payment for extra item

In case mutually agreeable settlement of rates is not arrived at between the Engineer and the Contractor, the Contractor shall be bound to carry out the works at rates to be decided by the Engineer. In the absence of a finalised rate for a new item, the Engineer shall be entitled to certify payment to the Contractor based on a provisional rate fixed by the Engineer for the work done under the new item. This shall be subject to upward or downward adjustment after the rate is finalised by the Engineer for that item.

59.6 The decision of the Engineer under this clause shall be final and binding.

60) LIEN IN RESPECT OF CLAIMS IN OTHER CONTRACTS

Any moneys due to the Contractor either alone or jointly with others, including the performance guarantee amount returnable to him may be withheld or retained or encashed by exercise of lien by the Client/ Employer/Engineer against any claim of the Client/ Employer/Engineer or any other branch, office department or subsidiary of the client/ Employer/Engineer in respect of a sum of money arising out of or under any contract other than the present contract made by the Contractor alone or jointly with the client/ Employer/Engineer or any other branch, office, department or subsidiary of the client/ Employer/Engineer. It is agreed term of contract that the sum of money so withheld or retained under this clause by the client/ Employer/Engineer, shall be kept withheld or retained till the claims arising out of or under the contract, are either mutually settled or determined by the Arbitrator, or by the competent court, as the case may be and that the Contractor shall have no claim for interest or damages whatsoever on this account or any other account, in respect of any sums of money withheld retained, under this clause and duly notified to the Contractor.

61) MEASUREMENTS OF WORK AND PAYMENTS

Measurements

The Contractor shall be paid for the works at rates in the accepted Bill of Quantities of the contract and extra items of work at rates determined under clause 59.0 of these conditions. The measurement shall be taken by the Engineer or his representative in the presence of the Contractor or his authorised representative.

Measurement of work at regular intervals

The measurements of the work shall be taken in accordance with the contract during progress of work and at such intervals, as in the opinion of the Engineer or Engineer's Representative shall be proper, having regard to the progress of the work. On an agreed date and time, the Engineer or his Representative shall take the on account or final measurements in the presence of the Contractor or his authorised representative. The Engineer or his authorised representative shall sign the measurements, which shall also be signed by the Contractor or his authorised representative as an acceptance of the measurements. If the Contractor or his representative fails to turn-up at the time of taking measurements in spite of notice to do so, the Engineer or his representative shall be entitled to record the measurements ex-parte and these shall be final and binding on the Contractor.

Measurement of works as per records and drawings

For the purpose of measuring such permanent works, as are to be measured by records and drawings, the Contractor shall prepare records and drawings at regular intervals and submit to the Engineer or Engineer's representative for his scrutiny.

In case, there is a discrepancy in the measurements of work done and the measurements as per drawings, measurements for the minimum of the two shall only be accounted for, provided the executed work is acceptable to the Engineer.

The Engineer or the Engineer's representative shall have the right to rectify any incorrect measurements and delete / correct any measurements if it is found at a later stage that the work is incomplete, defective and/or not conforming to the specifications.

62) ON ACCOUNT PAYMENTS

The Contractor shall be entitled to be paid from time to time, by way of "On-account" bills, only for such works, as in the opinion of the Engineer, the Contractor has executed in terms of the contract. Such payments shall be made at intervals to be decided by the Engineer depending upon the progress of work. Payment shall be made only on submission of bills along with measurements and necessary documents by the Contractor for scrutiny of the Engineer. The amount certified shall account for all deductions, including statutory deductions as for sales tax, income tax, etc., recoveries for advances and any amounts due from the Contractor. Such payments made by the Engineer shall not constitute any final acceptance of the measurements. In case of any discrepancy, the Engineer shall have the right to alter, modify, reduce or diminish the quantities or classification entered in the Measurement Books. In such cases, the Engineer shall have the right to recover any amount paid in an earlier bill/bills from any subsequent bill/bills and should the amount to be recovered be more than the amount of the subsequent bills, the

Contractor shall on demand from the Engineer immediately refund the amount to the Engineer within 7 days, failing which he shall have to pay interest @1% per month till the said extra amount is paid back by him.

For materials brought to site by the Contractor, the Engineer may allow (interest free) payment @ 75% cost of major materials brought to site for use in the works as secured advance which will normally be paid along with next on account payment. The payment of secured advance shall be made without any bank guarantee but on written request of the Contractor along with indemnity bond indemnifying Employer/Engineer against any loss and/or damages to the materials for which secured advance is sought by the Contractor. The indemnity bond shall be submitted on a non-judicial stamp paper of minimum value of Rs.10/-duly not arised as per the format approved by the Engineer. The Contractor should supply necessary vouchers etc. as evidence that payment has been made by the Contractor for all the materials brought to site for which secured advance is sought by the Contractor. Secured advance shall be paid at the rates derived from the accepted rate of the item(s) for which the materials are to be consumed and procurement rates, whichever is lower. The Engineer's decision as to the Quality, Quantity and value of the materials for which such secured advance is payable will be final and binding on the Contractor. The recovery of secured advance so made will be made from the subsequent on account bills to the extent the materials are consumed in the work.

The Engineer may on specific request and authorisation by the Contractor in writing release payments directly to the Suppliers, sub-contractors or petty contractors of the Contractor from the amount(s) certified, passed and due for payment to the contractor..

In cases of default by the Contractor, the Engineer may without any notice to the Contractor, release payments directly to the suppliers/sub-contractors and/or petty contractors of the Contractor. All such payments shall be recovered with interest @ 1.25% (including administrative charges) per month from the payments due to the Contractor.

In exceptional circumstances, if the Contractor is not able to make prompt payments to his suppliers affecting supplies of materials and progress of work, the Engineer may (but shall not be obliged to) give assurance to the suppliers for payments against supply of materials/consumables to the Contractor. In this case, the Contractor shall give to the Engineer an undertaking in writing that cost of such materials if not paid by him may be directly paid to his suppliers and recovered from his dues. Such payments shall only be made after receipt of materials at site and verification of the payments by the Contractor. The recovery of such payments shall be made with interest @ 1.25% (including administrative charges) per month from the next payment due to the Contractor. Total payments so made on behalf of the contractor shall not exceed 5% of the Contract value during the entire contract period..

The decision of the Engineer regarding exceptional circumstances and payments to be made to the suppliers, sub-contractors and petty contractors under the clause Nos. 62.3, 62.4 and 62.5 shall be final and binding on the Contractor. Such payments shall also not relieve the Contractor from any of his liabilities or obligations under the Contract.

No payment under the contract shall be made to the Contractor before receipt of performance security. The Engineer shall also be entitled to with hold payment sunder the above sub-clauses in case the Contractor fails to get himself registered under sales tax/labour laws or fails to fulfill his obligation under the contract.

63) FINAL MEASUREMENTS AND PAYMENTS

As soon as possible after completion of work, the Contractor shall submit the final bill along with detailed measurements of work done, account of the materials, plant and machinery issued by the Engineer and all other statements, supporting documents required for finalisation of the bill. The final bill, measurements and documents submitted by the Contractor shall be scrutinised by the Engineer or his representative and in case the same are found not in order, the Engineer shall direct the Contractor to re-submit the final bill along with all details. On receipt of all requisite details and final bill from the Contractor, the Engineer shall have the final measurements taken, recorded and signed jointly. An account of any plant, equipment and materials issued by the Engineer to the Contractor, shall also be prepared and signed jointly. Based on the final measurements and materials and plant and equipment account statements, the Engineer shall prepare the final bill.

The Contractor shall sign the Engineer's copy of the Final Bill Account in token of acceptance of the full and final value of the works performed under the contract, and submit a "No Claim Certificate" on the prescribed proforma along with a list of unsettled claims, if any. The Engineer shall then arrange to make payment against the final bill.

64) MODE OF PAYMENT AND TAX DEDUCTION AT SOURCE

64.1 MODE OF PAYMENT:

64.1.1 All payments to the Contractor shall be made through Electronic Clearing System (ECS). The Contractor shall furnish his Banker's details in addition to his own bank account details. All amounts payable to the Contractor shall be directly credited to his bank account.

64.1.2 In case, the Contractor is having his account with a bank not having Electronic Clearing System (ECS), the Contractor may open a bank account with the bank having this facility.

64.1.3 All payments to the Contractor shall be made by above means only unless specifically otherwise agreed by the Engineer in special circumstances for petty payments.

64.2 Tax deduction at source

Income tax and Works tax shall be deducted from the payments credited/released by Employer/Engineer to the Contractor against execution of work as per law of the land. The deductions shall be made as per prescribed rates prevalent from time to time unless a tax exemption certificate is produced by the Contractor. Amount of tax deduction shall be deposited with the concerned authorities and tax deduction certificate shall be issued by Employer/Engineer. The Employer/Engineer shall deduct at source taxes/duties under any other law/statute as may be applicable at the time of making payments. The Contractor shall furnish to the Engineer registration No. under works tax and PAN(for TDS), as applicable.

65) COMPLETION CERTIFICATE

As soon as the work is completed, the Contractor shall give notice of such completion, whether of the whole of the works, or of any part of the work, for which a separate date of completion is stipulated in the contract, to the Engineer, and the Engineer, within 30 days of receipt of such notice, shall inspect the work and also arrange for carrying out of such tests as may be prescribed

under the contract or ordered by the Engineer. If the Engineer notices any incomplete item of work or any defect, which is to be rectified by the Contractor, or if any part or whole of the work fails to pass the specified tests, the

Engineer shall furnish to the Contractor, the list of all such incomplete items of work, deficiencies, defects, failure to pass tests, etc., and may refuse to issue a Certificate of Completion to the Contractor. If in the opinion of the Engineer the work has been satisfactorily completed and has satisfactorily passed final test or tests that may be prescribed, the Engineer shall issue a certificate of completion showing the date of completion in respect of the work. The defect liability period, if any, shall commence from the date of completion indicated in such certificate. Provided that the Engineer may issue such a certificate with respect to any part of the works, before the completion of the whole of the works, which has been so completed and/or used by the Client/Employer/Engineer. When any such certificate is given in respect of a part of the work, such part shall be considered as completed and the defect liability period of such part shall commence from the date of completion indicated in such certificate.

Completion certificate not to absolve the Contractor from his Responsibilities:

The Certificate of Completion of Works referred to in sub-clause 65.1 shall not absolve the Contractor from his liability to make good defects, imperfections and shrinkages or faults, which may appear during the defect liability period specified in the contract, arising in the opinion of the Engineer from materials or workmanship being not in accordance with the Contract. These shall be rectified and made good by the Contractor at his own cost. In case of the default on the part of the Contractor, to so make good the defects or deficiencies, the Engineer may employ labour, plant and machinery and materials or appoint another agency or Contractor, to make good such defects, imperfections, shrinkages and faults, and all expenses consequent and incidental thereto, shall be recovered from any money due to the Contractor under the contract including the Performance Security amount or from any money payable to the Contractor by the Employer/Engineer, under any other contract.

66) CLEARANCE OF SITE ON COMPLETION

On completion of works, the Contractor shall clear and remove from site all constructional plant, surplus materials, rubbish and temporary works of every kind, and leave the whole of the site of work clean, tidy and in a workman like condition to the satisfaction of the Engineer. This will be one of the pre-conditions for making the final payment to the Contractor. Such clearance may be made by the Engineer through any other agency at the expense of the Contractor in the event of the Contractor's failure to comply with this provision within 7 days after receiving notice to that effect from the Engineer.

67) POST PAYMENT AUDIT

It is an agreed term of the contract that the Employer reserves to himself the right to carry out a post payment audit or technical examination of the works, and the final bill including all supporting vouchers, abstracts, etc. If as a result of such examination, any over payment to the Contractor is discovered to have been made in respect of any work done, the Contractor will be bound to refund the same to the Engineer or may be adjusted against any dues of the Contractor. If any under payment is discovered, the same shall be paid by the Engineer to the Contractor. Such payments or recoveries, however, shall not carry any interest.

68) DEFECT LIABILITY CERTIFICATE

68.1 In the contract, the expression “Defect Liability Period” shall mean the period of defect liability prescribed elsewhere in the contract, commencing from the date of completion of the works, as certified by the Engineer.

The Contractor shall maintain, rectify and make good at his own cost any defects/deficiencies, which may develop in the work or as notified by the Engineer during Defect Liability Period. However, maintenance during Defect Liability Period shall not include day to day upkeep, cleaning, custody and security of the work.

68.2 The contract shall not be considered as completed, until a Defect Liability Certificate has been issued by the Engineer stating that the works have been completed and maintained to his satisfaction. Defect Liability certificate shall be issued by the Engineer, upon expiry of Defect Liability period or as soon thereafter as any works ordered during such period, have been completed to the satisfaction of the Engineer.

68.3 No certificate other than “Defect Liability Certificate” shall be deemed to constitute final approval of the work or part of the work for which it is issued.

69) UNFULFILLED OBLIGATIONS

Notwithstanding the issue of Defect Liability Certificate, the Contractor and the Engineer shall remain liable for the fulfilment of any unfulfilled obligations under the provision of the contract, prior to the issue of the Defect Liability Certificate, and for the purpose of determination of the nature and extent of any such obligation, the contract shall be deemed to remain in force between the parties thereto.

70) PRODUCTION OF VOUCHERS

70.1 The Contractor, whenever required, shall produce for examination by the Engineer, any quotation, invoice, cost or other account books, vouchers, receipts, letters, memoranda or any copy of or extract from any such documents and also furnish information and returns, as may be required, relating to the execution of this contract. The Engineer’s decision on the question of relevancy of any documents, information or returns shall be final and binding on the Contractor.

If any part or item of the work is allowed to be carried out by a sub-Contractor, the Engineer shall have power to secure the books of such sub-Contractor, through the Contractor, and shall have power to examine and inspect the same.

71) FORCE MAJEURE

71.1 If, at any time during the currency of the contract, the performance of any obligation (in whole or in part) by the Employer or the Contractor shall be prevented or delayed by reason of any war, hostilities, invasion, acts of public or foreign enemies, rebellion, revolution, insurrection, civil commotion, sabotage, large scale arson, floods, earthquake or any other act of God, large scale epidemics, nuclear accidents, any other catastrophic unforeseeable circumstances, quarantine restrictions, any statutory, rules, regulations, orders or requisitions issued by a Government department or competent authority (hereinafter referred to as "event")

then, provided notice of the happening of such an event is given by either party to the other within 21 days of the occurrence thereof.

a. Neither party by reason of such event be entitled to terminate the contract or have claim for damages against the other in respect of such non-performance or delay in performance.

b. The obligations under the contract shall be resumed as soon as practicable after the event has come to an end or ceased to exist.

c. If the performance in whole or part of any obligation under the contract is prevented or delayed by reason of the event beyond a period of 180 days, the contract may be fore-closed with mutual consent by giving a notice of 30 days without any repercussions on either side.

d. In case of doubt or dispute, whether a particular occurrence should be considered an “event” as defined under this clause, the decision of the Engineer shall be final and binding.

e. Works that have already been measured shall be paid for by the Engineer even if the same is subsequently destroyed or damaged as a result of the event. The cost of rebuilding or replacing any work that has been measured shall be borne by the Employer/Engineer.

f. If the contract is fore-closed under this clause, the Contractor shall be paid fully for the work done under the contract, but not for any defective work or work done which has been destroyed or damaged before its measurement. The Engineer shall have the option to take over any plant and material lying at site, at rates provided for in the contract, failing that, as per rates which are determined to be fair and reasonable by the Engineer.

71.2 If no notice is issued by either party regarding the event within 21 days of occurrence, the said event shall be deemed not to have occurred and the contract will continue to have effect as such.

72) CLAIMS

72.1 Monthly Statement of Claims:

The contractor shall prepare and furnish to the Engineer once in every month an account giving full and detailed particulars of all claims for any additional expenses to which the Contractor may consider himself entitled to and of all extra or additional works ordered by the Engineer which he has executed during the preceding month and no claim for payment for and such works will be considered which has not been included in such particulars.

Non-receipt of statement of claims shall be construed that contractor has 'no claim'.

72.2 Signing of “No Claim” Certificate:

The contractor shall not be entitled to make any claim whatsoever against HRIDC under or by virtue of or arising out of this contract, nor shall HRIDC entertain or consider any such claim, if made by the Contractor, after he shall have signed a “No Claim” Certificate in favour of HRIDC in such form as shall be required by HRIDC after the works are finally measured up. The Contractor shall be debarred from disputing the correctness of the item covered by “No Claim” Certificate or demanding a clearance to arbitration in respect thereof.

73) SETTLEMENT OF DISPUTES

All disputes and differences of any kind whatsoever arising out of or in connection with the contract, whether during the progress of the work or after its completion and whether before or after the determination of the contract, shall be settled as under, provided that matters for which provision has been made in clauses 20.3, 36.5, 40.1, 40.2, 49.7, 50.0, 51.0, 59.0, 61.2 and 72.2 of General Conditions of Contract or in any clause of the Special Conditions of Contract shall be deemed as 'excepted matters' (matters not arbitrable) and decision of the Employer thereon, shall be final and binding on the contractor; provided further that 'excepted matters' shall stand specifically excluded from the purview of this clause.

73.1 Mutual Settlement

All such disputes or differences shall in the first place be referred by the Contractor to the Employer in writing for resolving the same through mutual discussions, negotiations, deliberation etc. associating representatives from both the sides and concerted efforts shall be made for reaching amicable settlement of disputes or differences.

73.2 Conciliation/Arbitration

73.2.1 It is a term of this contract that Conciliation/ Arbitration of disputes shall not be commenced unless an attempt has first been made by the parties to settle such disputes, within 120 days of submission of monthly statement of such claim, through mutual settlement.

73.2.2 In the event of failure to resolve any dispute or difference between the parties hereto as to the construction or operation of this contract, or the respective rights and liabilities of the parties on any matter in question, dispute or difference on any account or as to the withholding by the Employer of any certificate to which the contractor may claim to be entitled to, through mutual settlement, the Contractor may refer such matters to the Managing Director in writing within 60 days from the date of failure of amicable settlement of such disputes or differences for settlement through Conciliation.

If the efforts to resolve all or any of the disputes through Conciliation fail, the Contractor may refer to the Managing Director of the Employer for settlement of such disputes or differences through Arbitration. No disputes or differences shall be referred to Arbitration after expiry of 60 days from the date of notification of the failure of Conciliation.

73.2.3 The demand for Conciliation or Arbitration shall specify the matters which are in question, or subject of the dispute or difference as also the amount of claim item wise. Only such dispute(s) or difference(s) in respect of which the demand has been made, together with counter claims or set off, given by the Employer, shall be referred to Conciliation or Arbitration and other matters shall not be included in the reference.

73.2.3(a) The Arbitration proceeding shall be assumed to have commenced from the day, a written and valid demand for arbitration is received by the Employer.

73.2.3(b) The claimant shall submit his claim stating the facts supporting the claim along with all relevant documents and the relief or remedy sought against each claim within a period of 30 days from the date of appointment of the Arbitral Tribunal.

73.2.3(c) The Employer shall submit its defence statement and counter claim(s), if any, within a period of 60 days of receipt of copy of claim from Tribunal thereafter unless otherwise extension has been granted by Tribunal.

73.2.3(d) Place of Arbitration:

The conciliation/ arbitration proceedings shall be held at a place decided by Conciliator/ Arbitrator.

73.2.4 No new claim shall be added during proceedings by either party. However, a party may amend or supplement the original, claim or defence thereof during the course of arbitration proceedings subject to acceptance by Tribunal having due regard to the delay in making it.

73.2.5 If the contractor(s) does/do not present his/their specific and final claim in writing, within a period of 90 days of receiving the intimation from the Employer that the final bill is ready for payment, he/they will be deemed to have waived his/their claim(s) and the Employer shall be discharged and released of all liabilities under the contract in respect of these claims.

73.3 No suspension of work

The Obligations of the Employer, the Engineer and the Contractor shall not be altered by reasons of conciliation / arbitration being conducted during the progress of works. Neither party shall be entitled to suspend the work on account of conciliation/ arbitration and payments to the Contractor shall continue to be made in terms of the contract.

73.4(a) (i) Sole Conciliator/Sole Arbitrator:

In cases where the total value of all claims/counter-claims in question added together does not exceed `2.00 Crore (Rupees Two Crores), the Arbitral Tribunal shall consist of a sole arbitrator who shall be an officer of HRIDC not below GM level, nominated by the Managing Director. The sole arbitrator shall be appointed by the Managing Director of the Employer within 60 days from the day when a written and valid demand for arbitration is received by the Employer.

73.4(a) (ii) Arbitration Tribunal:

In cases where the total value of all claims/counter-claims exceeds `2.00 Crore, the Arbitral Tribunal shall consist of a panel of three Officers not below GM level.

For this purpose, the Employer will send a panel of more than 3 names to the contractor, within 60 days from the day when a written and valid demand for arbitration is received by the Employer. Contractor will be asked to suggest to the Managing Director at least 2 names out of the panel for appointment as contractor's nominee within 30 days from the date of dispatch of the request by the Employer. The Managing Director shall appoint at least one out of them as the contractor's nominee and will, also simultaneously appoint the balance number of arbitrators either from the panel or from outside the panel, duly indicating the 'presiding arbitrator' from amongst the 3 arbitrators so appointed. The Managing Director shall complete this exercise of appointing the Arbitral Tribunal within 30 days from the receipt of the names of contractor's nominees. While nominating the arbitrator sit will be necessary to ensure that one of them is from the Accounts Department. An officer of AGM rank of the Accounts Department shall be considered of equal status to the GM of the other departments of HRIDC for the purpose of appointment of arbitrator.

73.4(a) (iii) The minimum qualifications of Conciliator/ Arbitrator shall be graduate in the respective field. He will be a working officer with a minimum of 20years' service. He should be clear from the vigilance angle and should be a person with reputation of high technical/ commercial ability and integrity. Also, he should not have associated with the contract to which the dispute pertains.

73.4(a) (iv) If one or more of the arbitrators appointed as above refuses to act as arbitrator, withdraws from his office as arbitrator or vacates his/their office/offices or is/are unable or unwilling to perform his functions as arbitrator for any reason whatsoever or dies or in the opinion of the Managing Director fails to act without undue delay, the Managing Director shall appoint new arbitrator/ arbitrators to act in his/their place in the same manner in which the earlier arbitrator/ arbitrators had been appointed. Such reconstituted Tribunal may, at its discretion, proceed with the reference from the stage at which it was left by the previous arbitrator(s).

73.4(a) (v) The Arbitral Tribunal shall have power to call for such evidence by way of affidavits or otherwise, as the Arbitral Tribunal shall think proper, and it shall be the duty of the parties hereto to do or cause to be done all such things as may be necessary to enable the Arbitral Tribunal to make the award without any delay. The Arbitral Tribunal should record day-to-day proceedings. The proceedings shall normally be conducted on the basis of documents and written statements.

73.4(a) (vi) While appointing arbitrator(s) under sub clause 73.4(a)(i), 73.4(a)(ii) and **73.4(a) (iv)** above, due care shall be taken that he/they is/are not the one/those who had an opportunity to deal with the matters to which the contract relates or who in the course of his/their duties as HRIDC employee expressed views on all or any of the matters under disputes or differences. The proceedings of the Arbitral Tribunal or the award made by such Tribunal will, however, not be invalid merely for the reason that one or more arbitrator had, in the course of his service, opportunity to deal with the matters to which the contract relates or who in the course of his/their duties expressed views on all or any of the matters under dispute.

73.4(b) (i) The arbitral award shall state item-wise, the sum and reasons upon which it is based. The analysis and reasons shall be detailed enough so that the award could be inferred there from.

73.4(b) (ii) A party may apply for corrections of any computational errors, any typographical or clerical errors or any other error of similar nature occurring in the award of tribunal within 60 days of the receipt of the award.

73.4(b) (iii) A party may apply to tribunal within 60 days of the receipt of award to make an additional award as to claims presented in the arbitral proceedings but omitted from the arbitral award.

73.5 In case of the Tribunal, comprising of three members, any ruling or award shall be made by a majority of members of Tribunal. In the absence of such a majority, the views of the Presiding Arbitrator shall prevail.

73.6 Where the arbitral award is for the payment of money, no interest shall be payable on whole or any part of the money for any period till the date on which the award is made.

73.7 The cost of arbitration shall be borne by the respective parties. The cost shall inter-alia include fee of the Conciliator/ Arbitrator(s) as per the rates fixed by the Employer from time to time and the fee shall be borne equally by both the parties. Further, the fee payable to the arbitrator(s) would be governed by the instructions issued on the subject by the Employer from time to time irrespective of the fact whether the arbitrator(s) is/are appointed by the Employer or by the court of law unless specifically directed by Hon'ble court otherwise on the matter.

73.8 Settlement through Court:

It is a term of this contract that the Contractor shall not approach any Court of Law for settlement of such disputes or differences unless an attempt has first been made by the parties to settle such disputes or differences through clauses 73.1 and 73.2.

73.9 The Conciliation and/or Arbitration proceedings shall be governed by the provisions of the Indian Arbitration and Conciliation Act 1996 or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force.

73.10 The language of proceedings, documents or communications shall be in English and the award shall be made in English in writing.

73.11 Award to be final and binding on all parties:

An arbitral award shall be final and binding on all parties, as per provision of Arbitration and Conciliation Act, 1996.

73.12 Exception:

For settlement of disputes with central PSUs, the procedure as per existing orders of Permanent Machinery for Arbitration (PMA), Bureau of Public Enterprises, Govt. of India shall be followed.

73.13 JURISDICTION OF COURTS:

Jurisdiction of courts for dispute resolution shall be Chandigarh/Panchkula.

FORM OF AGREEMENT

(To be executed on requisite value of stamp Papers)

AGREEMENT

THIS AGREEMENT made on _____ day of _____ (Month/year) between Haryana Rail Infrastructure Development Corporation Limited, acting through Managing Director (hereinafter called “the Employer/Engineer”) of the one part and _____ (name and address of the Contractor) (hereinafter called “the Contractor”) of the other part.

WHEREAS the Employer is desirous that certain works should be executed by the Contractor viz. _____ Contract No. _____ (hereinafter called “the Works”, and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH as follows:

In this Agreement, words and expressions shall have the same meaning as are respectively assigned to them in the Conditions of Contract hereinafter referred to.

The following documents shall be deemed to form and be read and construed as part of this Agreement:

- i.** Letter of Acceptance of Tender
- ii.** Notice Inviting Tender
- iii.** Instructions to the Tenderers
- iv.** Appendix to Tender
- v.** Form of Bid
- vi.** Special Conditions of the Contract
- vii.** General Conditions of Contract
- viii.** Technical Specifications
- ix.** Relevant codes and Standards
- x.** Drawings
- xi.** Bill of Quantities

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 respects with the provisions of the Contract.

The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

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

(Name, Designation and address of the authorized signatory)		(Name, Designation and address of the authorized signatory)
Signed for and on behalf of the Contractor in the presence of:		Signed for and on behalf of the Employer in the presence of:
Witness:		Witness:
1.		1.
2.		2.

Name and address of the witnesses to be indicated.

PERFORMANCE BANK GURANTEE (UNCONDITIONAL)

To

Haryana Rail Infrastructure Development Corporation Limited,
Name & Address.

[Acting through _____ (Project Incharge) & Address of the Project]

WHEREAS _____ [name and address of contractor] (hereinafter 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 any Scheduled Bank for the sum specified therein as security for compliance with his obligations 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], _____ [amount 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 you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid up to _____ (a date 60 days from the date of completion of the work).

SIGNATURE AND SEAL OF THE GUARANTOR

	Name of Bank:		
	Address:		
	Date:		

BANK GURANTEE FOR RELEASE OF 50% OF RETENTION MONEY

To
 Haryana Rail Infrastructure Development Corporation Limited,
 Name & Address.
 [Acting through _____(Project Incharge) & Address of the Project]

WHEREAS _____[name and address of contractor*] (hereinafter 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 agreed by you in the said Contract that the Contractor has option to get release 50% of the Retention Money against un-conditional Bank Guarantee from any Scheduled Bank acceptable to you as security for compliance with Contractor’s obligation in accordance with the contract (Sub clause _____).

AND WHEREAS the Contractor has opted to get released the 50% of the retention money against an unconditional 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], _____ [amount 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 thereunder or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid upto _____ (till the HRIDC International Limited certifies repayment of retention money in accordance with Sub-clause 8.5 of General Conditions of Contract).

SIGNATURE AND SEAL OF THE GUARANTOR

	Name of Bank:		
	Address:		