

Bihar Urban Infrastructure Development Corporation Ltd. (<u>A Govt. Of BiharUndertaking</u>)

> Bid Document For

Renovation, Rehabilitation and Conservation of Motijheel and its 12 Months O&M in Motihari Town, Bihar

Estimated Cost- Rs. 2114.34 Lakh Jan

MARCH, 2020

GOVERNMENT OF BIHAR



OFFICE OF THE EXECUTIVE ENGINEER BIHAR URBAN INFRASTRUCTURE DEVELOPMENT **CORPORATION Ltd.** EAST CHAMPARA MOTIHARI.

1 st Floor, Bikas bhawan Collectorate Campus, Motihari-84501

NOTICE INVITING TENDER

E-Bidding NIT No. -09 /2019-20(RE-TENDER)

(Through e-procurement mode only on website www.eproc.bihar.gov.in)

1. Designation and Address of the Advertiser	: - Executive Engineer, BUIDCo, Motihari
 Date of issue of NIT Period for download of Tender Document 	: - 26.02.2020 : - From 16.03.2020 to 23.03.2020 till 3.00 P.M On website www.eproc.bihar.gov.in
4. Date, Time and Place of Pre-Bid Meeting	: - Date- 18.03.2020, Time-01.00 P.M Place- Chief Engineer(North), BUIDCo, Patna
 Last Date & time for uploading tender Documents by bidder 	: - 24.03.2020 till 03.00 P.M on website
 Last Date, Time and Place for submission Of Original Instrument of EMD and Cost Of BOQ 	 www.eproc.bihar.gov.in : - Till 3.00 P.M on 26.03.2020 Chief Engineer (North), BUIDCo, Patna Superintending Engineer BUIDCo Tirhut Division, Muzaffarpur Executive Engineer, BUIDCo, Motihari.
7. Date, time & Place of opening of Technical B	Bid : -Date- 26.03.2020 Time- 03.30 P.M on
	website <u>www.eproc.bihar.gov.in</u>

8. Date, time & Place of opening Rate Bid : - To be decided after finalization of Technical

Bid on www.eproc.bihar.gov.in

9. Details of work -

SI.No	Name of work	Estimated Cost	Bid Processing fees (Beltron)	Bid Document Cost	Bid Security (EMD)	Contract Duration
1.	Renovation, Rehabilitation & Conservation of Motijheel and its 12 months O&M in Motihari, Bihar	Rs. 21,14,34,388.00	Rs. 17,700.00	Rs. 25,000.00	Rs. 31,20,000.00	15 Month

- 11. For support related to e-tendering process, bidders may contact at following address "e- Procurement HELP DESK, First Floor, Plot No.- M/22, Road No.-25, Sri Krishna Nagar, Bank of India Compound, Patna-800001, Contact No: 0612-2523006; 7542028164". Vendor may visit the link "Vendor Info" at <u>www.eproc.bihar.gov.in</u>
- 12. The BUIDCO reserve the right to extend or reject any tender or all tenders without assigning any reason thereof.
- 13. Detailed N.I.T can be seen of website- <u>www.eproc.bihar.gov.in</u> or <u>www.prdbihar.gov.in</u>
- 14. For participating in above tender, Tenderer must have registered in central government or any state government or any PSU. After issue letter of acceptance the tenderer will have to be registered in appropriate class of BUIDCO before entering into Agreement.
- 15. The bidder should not be blacklisted or debarred by centre/state Govt. or its agency/ utility/ enterprises. Scan copy of an affidavit on Rs.100+5 stamp paper of this regard must be uploaded in bid.
- 16. Bidder desiring to participate in this tender shall have to get registered with e-procurement on <u>www.eproc.bihar.gov.in</u> so that he has user ID, password and a valid digital signature. For more details contact to BSEDC help desk, M/22, Bank of India building, Road No. 25 Sri Krishna Nagar, Patna 800001.
- 17. "BSEDC Processing Fee is mandatory to be paid through online mode i.e. Internet Payment gateway (Credit/Debit Card), Net banking, NEFT / RTGS."
- 18. "Bids along with necessary online payments must be submitted through e-Procurement portal <u>www.eproc.bihar.gov.in</u> before the date and time specified in the NIT. The department doesn't take any responsibility for the delay / Non Submission of Tender / Non Reconciliation of online Payment caused due to Non-availability of Internet Connection, Network Traffic / Holidays or any other reason."
- 19. The bidder shall have to submit cost of tender document (Cost of BOQ in form of DD) of any nationalized bank in favour of Executive Engineer, BUIDCo, Motihari which is payble at Motihari and EMD in form of BG/DD/NSC/KVP pledged in the name of Executive Engineer, BUIDCo, Motihari.
- 20. A scanned copy of the instrument(s) for Earnest Money and cost of tender document has to be uploaded along with the tender documents.
- 21. The bidders must use MS Office- 2003 version. File size should be less than 5MB and should be in M.S. word, M.S. Excel, PDF and JPEG Formats.
- 22. No claim shall be entertained on account of disruption of internet service being used by bidders. Bidders are advised to upload their bids well in advance to avoid last hour's technical snags.
- 23. The conditional tender will not be accepted.
- 24. The tender will be received in two bid system. i.e. Part I Technical & Part –II Financial.
- 25. The quantity and amount of BOQ may increase or decrease but the cost of EMD shall remain unchanged for which the tenderer will have no any claim.
- 26. Corrigendum/Addendum, if any, will be published only on the website www.eproc.bihar.gov.in itself.
- 27. Taxes & Cess deduction: Taxes will be deducted from the each bill of the contractor as applicable. One percent Cess will be deducted from each bill in the head of welfare of labor as per rule.
- Regarding any information of the proposed work bidder should contact the Executive Engineer, Motihari / Superintending Engineer, BUIDCo Tirhut Division, Muzaffarpur/Chief Engineer (North)/ BUIDCo on any working day before submission of bid.
- 29. The rates quoted shall be including all prevailing taxes.
- 30. Letter No.- 14333 dated- 05.09.2012 of Rural Works Department, Bihar will be followed.

Executive Engineer BUIDCo, Motihari

SECTION 1 INSTRUCTION TO BIDDERS

(ITB)

Section 1: Instructions to Bidders

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A. GENERAL

1. Scope of Bid

The Employer (named in Appendix to ITB) invites bids for the construction of works (as defined in these documents and referred to as "the works") detailed in the table given in NIT. The bidders may submit bids for any one group or all groups of the works detailed in the table given in NIT.

The successful bidder will be expected to **Survey**, **Design & Execution of the works** by the intended completion date specified in the Contract data.

Throughout these bidding documents, the terms 'bid' and 'tender' and their derivatives (bidder / tenderer, bid/tender, bidding/tendering, etc.) are synonymous.

Regarding PERCENTAGE RATE OR ITEM RATE, tender shall be as per Appendix to ITB and accordingly the non-relevant sections of this document must be crossed.

2. Sources of Funds

The expenditure on this project will be met as decided by the Competent Authority.

3 Eligible Bidders

This Invitation for Bids is open to all bidders.

All bidders shall provide in Section 2, Forms of Bid and Qualification Information, a statement that the Bidder is neither associated, nor has been associated, directly or indirectly, with the Consultant; Engineer-in-Charge or any other entity that has prepared the design, specifications, and other documents for the Project or being proposed as Project Director for the Contract or involved in supervision of the contract. A firm that has been engaged by BUIDCo to provide consulting services for the preparation or supervision of the works, and any of its affiliates shall not be eligible to bid.

Bidders shall not be under a declaration of ineligibility for delay, failure or corrupt and fraudulent practices by any of the State Govt. or Central Govt. or Public Undertaking or any Autonomous Body.

4. Qualification of the Bidder

All bidders shall provide in Section 2, Forms of Bid and Qualification Information, a preliminary description of the proposed work method and schedule, including drawings and charts indicating mile stones to complete the project on time.

All bidders shall also furnish the following information in Section 2.

- (i) Evidence of access to or availability of credit facilities (minimum 10% of estimated cost) certified by the bankers.
- (ii) Undertaking that bidder would be able to invest a minimum of cost up to 25% of the contract value of work, during implementation of contract.
- (iii) Proposals, if any, for sub-contracting of elements of work, costing more than 10% of the bid amount.
- (iv) Power of attorney, if any.

If the Employer has not undertaken prequalification of potential bidders, all bidders shall include the following information and documents with their bids in Section 2:

- (a) copies of original documents defining the constitution or legal status, place of registration, and principal place of business; written power of attorney of the signatory of the Bid to commit the Bidder;
- (b) total monetary value of construction work performed for each of the last five years;
- (c) experience in works of a similar nature and size for each of the last five years, and details of works underway or contractually committed; and clients who may be contacted for further information on those contracts;

- (d) major items of construction equipment proposed to carry out the Contract or evidence of arrangement; of possessing them on hire/ lease/ buying as defined therein;
- (e) qualifications and experience of key site management and technical personnel proposed for contract;
- (f) reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the past five years;
- (g) evidence of access to line(s) of credit and availability of other financial resources facilities (10% of contract value), certified by the Bankers (Not more than 3 months old)
- (h) Undertaking that the bidder will be able to invest minimum cash up to 25% of contract value of work, during implementation of work.
- (i) authority to seek references from the Bidder's bankers;
- (j) information regarding any litigation, current or during the last five years, in which the Bidder is involved, the parties concerned and dispute amount;
- (k) proposals for subcontracting components of the Works amounting to more than 10% of the Bid Price (for each, the qualifications and experience of the identified sub-contractor in the relevant field should be annexed);
- (I) the proposed methodology and programme of construction, backed with equipment planning and deployment, duly supported with broad calculations and quality control procedures proposed to be adopted, justifying their capability of execution and completion of the work as per technical specifications within the stipulated period of completion as per milestones.

Criteria for Joint Venture Participating in the bids for procurement of civil works.

Joint venture firm shall jointly and severally responsible for completion of the project. Joint venture must fulfill the following minimum qualification requirement.

- 1. The lead partner shall meet not less than 50% (fifty percent) of qualification criteria given in subclause 4.2, 4.5A, 4.5B, 4.7 & 4.8 of ITB.
- 2. Each of the remaining partners shall meet not less than 25% (Twenty five percent) of all the qualifying criteria given is sub-clause 4.2, 4.5A, 4.5B, 4.7 & 4.8 of ITB.
- 3. The joint venture must also collectively satisfy the subject of the criteria of clause 4.2, 4.5A, 4.5B, 4.7 & 4.8 of ITB for this purpose the relevant figures for each of the partners shall be 100% or more.
- 4. In the event that the employer has caused to disqualify under clause 4.8 of ITB and the constitutions stated below all of the Joint Venture partners will be disqualified.
- 5. Joint Venture applicants shall provide a certified copy of the joint venture Agreement in demonstration of the partners undertaking joint and several liabilities for the performance of any contract entered into with the bid.
- 6. The available bid capacity of the JV as required under clause 4.7 of ITB below will be applied for each partner to the extent of his proposed participation in the execution of the work. The total bid capacity available shall be more than estimated contract value.

Qualification Criteria

- a. The Joint Venture partners shall together satisfy the criteria specified in Sections 1.4 (a) (1), 1.4(a) (3), 1.4 (a) (5)& 1.4 (a) (6).
- b. The joint venture partners or nominated sub-contractor(s)shall satisfy the requirements specified in Sections 1.4(a) (2),1.4 (a) (7), 1.4 (a) (8)& 1.4 (a) (9).
- c. The Joint Venture partners shall jointly satisfy all the requirements specified in Section1.4 of Qualification Criteria.
- d. For the purpose of satisfying the qualification criteria set out in Section 1.5, Joint Venture partners must satisfy the following qualification criteria :

1. financial soundness

- a. as stated in Section 1.5(a) for all partners jointly
- b. as stated in Section 1.5 (c)in respect of each partner of the JV;
- 2. adequate sources to meet financial commitments as set out in Section 1.5 (b)for all partners jointly;

- 3. personnel capabilities as stated in Section 1.6 for all partners jointly; and
- 4. legal disclosure as stated in Section 1.7 for each partner of the JV.
- e. Each partner of a joint venture Bidder shall provide the information to evidence compliance with the criteria set out in Sections2.2(a) to (b).

2. (a) Lead Partner

One of the joint venture Partners who is responsible for performing a key function in contract management or in executing a major component of the proposed Contract shall be nominated as being in charge during the bidding process and, in the event of a successful bid, during Contract execution (the —Lead Partnerll). The Lead Partner shall be authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the joint venture. This authorization shall be evidenced by the submission of a power of attorney signed by legally authorized signatories of each of the joint venture Partners as per proforma enclosed in Annexure A - Part L, as part of the Bid.

(b) All Partners

All partners of the joint venture shall be liable jointly and severally for the execution of the Contract in accordance with the Contract terms and a copy of the undertaking as per format provided under Annexure A - Part M signed by the joint venture partners shall be submitted with the bid.

A.To qualify for award of the contract, each bidder in its name should have in the last five years as referred to in Appendix :-

- (a) Achieved in any one year a minimum annual financial turnover (in all classes of civil engineering construction works only) volume of construction of at least the amount equal to the 50% (fifty percent) estimated cost of works for which bid has been invited. The turnover will be indexed at the rate of 8% for a year.
- (b) Satisfactorily completed as a prime contractor (or as a nominated subcontractor, where the subcontract involved execution of all main items of work described in the bid document, provided further that all other qualification criteria are satisfied) at least one similar work (Ghat Development work or Building construction work) (of value not less than amount indicated in Appendix (usually not less than 10% (ten percent) of estimated value of contract.

(c) Executed in any last 5 year,

-	Underground Pipe Laying work	- 4.5 Km
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- Construction of STP – 2 MLD by any technology - 1 Number & its O&M for 6 Months

(d) Deleted

(e) Deleted

B. Each bidder should further demonstrate:

(a) Availability (either owned or leased or by procurement against mobilization advances) of the following key and critical equipment for this work:

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

Availability of the testing equipment required for establishing field laboratory to perform mandatory tests e.g. those stated in Appendix to ITB.

The bidders should, however, undertake their own studies and furnish with their bid, a detailed construction planning and methodology supported with layout and necessary drawings and calculations (detailed) as stated in clause 4.3(i) above to allow BUIDCo to review their proposals. The numbers, types and capacities of each plant/equipment shall be shown in the proposals along with the cycle time for each operation for the given production capacity to match the requirements.

- (b) Availability for this work of personnel with adequate experience as required; as per Annexure-II.
- (c) Liquid assets and/or availability of credit facilities of no less than amount indicated in Appendix to ITB

(Credit lines/letter of credit/certificates from Banks for meeting the funds requirement etc.usually the equivalent of the estimated cash flow for 3 months in peak construction period.)

C. To qualify for a group of contracts made up of this and other contracts for which bids are invited in the IFB, the bidder must demonstrate having experience and resources sufficient to meet the aggregate of the qualifying criteria for the individual groups.

Sub-contractors' experience and resources shall not be taken into account in determining the bidder's compliance with the qualifying criteria except to the extent stated in 4.5(A) above.

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

Assessed Available Bid capacity = $(A^*N^*3 - B)$

Where

- A = Maximum value of civil engineering works executed in any one year during the last five years (updated to the price level of the year indicated in Appendix) taking into account the completed as well as works in progress.
- N = Number of years prescribed for completion of the works for which bids are invited.
- B = Value (updated to the price level of the year indicated in Appendix) of existing commitments and on-going works to be completed during the next 1.6 Years(period of completion of the works for which bids are invited)
- Note : The statements showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Engineer in charge, not below the rank of an Executive Engineer or equivalent.

Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:

- made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or
- have record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc; and/or
- participated in the previous bidding for the same work and had quoted unreasonably high bid prices and could not furnish rational justification to the employer.

5. One Bid per Bidder

Each bidder shall submit only one bid for any work or one package or group. A bidder who submits or participates in more than one Bid (other than as a subcontractor or in cases of alternatives that have been permitted or requested) will cause all the proposals with the Bidder's participation to be disqualified.

6. Cost of Bidding

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

In case of cancellation of tender, cost of bidding document will be charged each time.

7. Site Visit

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

7.2. Tender documents are not transferable.

B. BIDDING DOCUMENTS

8. Content of Bidding Documents

The set of bidding documents comprises the documents listed below and addendum issued in accordance with Clause 10;

Section	Particulars	Volume No.
	Notice Inviting Tender	
1	Instructions to Bidders	1
2	Qualifications of Bidders	
3	Conditions of Contracts	
4	Contract Data	
5	Special condition of Contract	I
6	Technical Specifications	
7	Bill of Quantities	
8	Securities and other forms	
9	Documents to be furnished by bidder	IV

Bidders will have to down load each of the volumes I, II, III and IV in compliance to section 2 and completed documents will be uploaded by him as Volume- V in two parts (refer clause 12).

The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms, technical specifications, bill of quantities, forms, Annexes and drawings in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. Pursuant to clause 25 hereof, bids which are not substantially responsive to the requirements of the Bid Documents shall be rejected.

9. Clarification of Bid documents

Pre-bid meeting

The bidder or his official representative is invited to attend a pre-bid meeting which will take place at the address, venue, time and date as indicated in appendix.

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

The bidder is requested to submit any questions in writing or by fax or through E-Mail to reach BUIDCo not later than one week before the pre-bid meeting.

Minutes of the meeting, including the text of the questions raised (without identifying the source of enquiry) and the responses given will be transmitted without delay to all through eproc website. Any modification of the bidding documents listed in Sub-Clause 8.1 which may become necessary as a result of the pre-bid meeting shall be made by BUIDCo exclusively through the issue of an Addendum pursuant to Clause 10 and not through the minutes of the pre-bid meeting. All bidders have to download any addendum from the website. Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

10. Amendment of Bidding Documents

Before the deadline for submission of bids, BUIDCo may modify the bidding documents by issuing addendum.

Any addendum thus issued shall be part of the bidding documents and shall be downloaded by all the bidders.

To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, BUIDCo may, at its discretion, extend as necessary the deadline for submission of bids, in accordance with Sub-Clause 20.2.

C. PREPARATION OF BIDS

11. Language of the Bid

All documents relating to the bid shall be in English.

12. Documents Comprising the Bid

The bid to be uploaded by the bidder as Volume V of the bid document (refer Clause 8.1) shall be in two separate parts;

Part I shall be named "Technical Bid" and shall comprise

- (i) Earnest money in the form specified in Section 8
- (ii) Qualification Information and supporting documents as specified in Section-2
- (iii) Certificates, undertakings, affidavits as specified in Section 2
- (iv) Any other information pursuant to Clause 4.2 of these instructions
- (v) Undertaking that the bid shall remain valid for the period specified in Clause 15.1
- (vi) An affidavit affirming the information be has furnished in the bidding document is correct to the best of his knowledge and belief.

Part II shall be named "Financial Bid" and shall comprise

- (i) Form of Bid as specified in Section 6
- (ii) Priced Bill of Quantities for items specified in Section 7

Deleted.

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

Section	Particulars	Volume No.
1	Invitation for Bids (IFB)	
2	Instructions to Bidders	Volume I
3	Conditions of Contract	
4	Contract Data	
5	Specifications	Volume II

13. Bid Prices

The contractor shall bid for the whole work as described in Sub-Clause 1.1 based on the priced Bill of Quantities submitted by the Bidder.

The bidder shall adopt the percentage rate method or item rate method as specified in the appendix to ITB; only the same option is allowed to all the bidders. Percentage rate method requires the bidder to

quote a percentage above/below/ at par of the schedule of rates specified in the appendix to ITB. Item rate method requires to quote rates and prices and line item total (both in figures and words) for all items of the Works described in the Bill of Quantities along with total bid price both in figure and words. Items for which no rate or price is entered by the bidder will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.

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

The rates and prices quoted by the bidder are subject to adjustment during the performance of the Contract in accordance with the provisions clause 10CA & 10CC clause Conditions of Contract.

The rate should include the cost of all seen and unseen expenditure. No claim, whatsoever, will be entertained due to non-inclusion of any such event necessary for the completion of the item of work.

14. Currencies of Bid and Payment

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

15. Bid Validity

Bids shall remain valid for a period not less than 120 days after the deadline date for bid submission specified in Clause 20.A bid valid for a shorter period shall be rejected by the Employer as non-responsive. In case of discrepancy in bid validity period between that given in the undertaking pursuant to Clause 12.1 (v) and the Form of Bid submitted by the bidder, the latter shall be deemed to stand corrected in accordance with the former and the bidder has to provide for any additional security that is required.

In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the bidders may extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by cable. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request will not be required or permitted to modify his bid.

16. Earnest Money

The Bidder shall furnish, as part of his Bid, a Bid security in the amount as per NIT for this particular work. This bid security shall be in favor of **E.E, BUIDCo**, **Motihari**.

- a. Demand Draft of any scheduled Indian Bank.
- b. Unconditional bank guarantee from any scheduled Indian bank issued within the state in the format given in Vol. III (If issued from any bank outside state will be converted to any bank within the state before executing the agreement).

Unconditional bank guarantees (and other instruments having fixed validity) issued as surety for the bid shall be valid for 45 days beyond the validity of the bid.

Any bid not accompanied by an acceptable Bid Security and not secured as indicated in Sub-Clauses 16.1 and 16.2 above shall be rejected by the Employer as non-responsive.

The Earnest money of unsuccessful bidders will be returned within 28 days of the end of the bid validity period specified in Sub-Clause 15.1.

The Earnest money of the successful bidder will be discharged when the bidder has signed the Agreement and furnished the required Performance Security.

The Earnest money may be forfeited

- (a) if the Bidder withdraws the Bid after Bid opening during the period of Bid validity;
- (b) if the Bidder does not accept the correction of the Bid Price, pursuant to Clause 26; or
- (c) in the case of a successful Bidder, if the Bidder fails within the specified time limit to
 - (i) sign the Agreement; or
 - (ii) Furnish the required Performance Security.

17. Alternative Proposals by Bidder

Bidders shall submit offers that fully comply with the requirements of the bidding documents, including the conditions of contract (including mobilization advance or time for completion), basic technical design as indicated in the drawing and specifications. Conditional offer or alternative offers will not be considered further in the process of tender evaluation.

Conditional tender will be rejected forthwith.

18. Format and Signing of Bid

The Bidder shall upload Technical bid and financial bid comprising of the documents as described in clause 12 of ITB at the eproc site (www.eproc.bihar.gov.in)

The Bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder, pursuant to Sub-Clause 4.3. All pages of the bid where entries or amendments have been made shall be initialed by the person or persons signing the bid and a certificate of corrections must be given by BUIDCo.

The Bid shall contain no alterations or additions, except those to comply with instructions issued by BUIDCo, or as necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person or persons signing the bid.

D.SUBMISSION OF BIDS

(only on website: <u>www.eproc.bihar.gov.in</u>)

(SI.No. 19 To 21.1, shall be done through e-tendering Process)

19. Sealing and Marking of Bids

The bidder shall download the bid document from the site website: www.eproc.bihar.gov.in and upload the scanned copy of required documents together with filled up documents on the website.: www.eproc.bihar.gov.in

The contents of Technical and Financial Bids will be as specified in clause 12.1

Deleted.

Deleted.

Deleted.

20. Deadline for Submission of the Bids

Complete Bids (including Technical and Financial) must be uploaded at <u>www.eproc.bihar.gov.in</u> not later than the date indicated in appendix.

The Employer may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will then be subject to the new deadline.

21. Late Bids

Deleted.

E. BID OPENING AND EVALUATION

(Only on website: <u>www.eproc.bihar.gov.in</u>)

(SI.No. 22 To 27.5, All Process shall be done through e-tendering Process)

22. Bid Opening

BUIDCo or their authorized representative will open all the Bids submitted on **www.eproc.bihar.gov.in** at the time and date specified in Appendix in the manner specified in Clause 20 and 22.3.

Deleted.

The "Technical Bid" shall be opened on the website <u>www.eproc.bihar.gov.in</u>. The amount, form and validity of the Earnest money furnished with each bid will be verified. If the bid security furnished does not conform to the amount and validity period as specified in the Invitation for Bid (ref. Column 6), and has not been furnished in the form specified in Clause 16, the technical bid will not be opened.

- Subject to confirmation of the bid security by the issuing Bank, the bids accompanied with valid security will be taken up for evaluation with respect to the Qualification Information and other information furnished in Part I of the bid pursuant to Clause 12.1.
 - (ii) After receipt of confirmation of the bid security, the bidder will be asked in writing (usually within 10 days of opening of the Technical Bid) to clarify or modify his technical bid, if necessary, with respect to any rectifiable defects.
 - (iii) The bidders will respond in not more than 7 days of issue of the clarification letter.
 - (iv) Immediately (usually within 3 to 4 days), on receipt of these clarifications the Evaluation Committee will finalize the list of responsive bidders whose financial bids are eligible for consideration.

The Financial bids of only those bidders will be opened on the website <u>www.eproc.bihar.gov.in</u>, who qualifies in the technical evaluation. The remaining bids will not be opened. The responsive Bidders' names, the Bid prices, the total amount of each bid, any discounts, Bid Modifications and withdrawals, and such other details as BUIDCo may consider appropriate, will be announced by BUIDCo at the opening. Any Bid price or discount, which is not read out and recorded will not be taken into account in Bid Evaluation.

In case bids are invited in more than one package, the order for opening of the "Financial Bid" shall be that in which they appear in the "Invitation For Bid".

BUIDCo shall prepare minutes of the Bid opening, including the information disclosed to those present in accordance with Sub-Clause 22.5

23. Process to be Confidential

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

24. Clarification of Financial Bids

To assist in the examination, evaluation and comparison of Bids, BUIDCo may, at his discretion, ask any Bidder for clarification of his Bid, including breakdowns of unit rates. The request for clarification and the response shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by BUIDCo in the evaluation of the Bids in accordance with Clause 26.

Subject to sub-clause 24.1, no Bidder shall contact BUIDCo on any matter relating to his bid from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of BUIDCo, it should do so in writing.

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

25. Examination of Bids and Determination of Responsiveness

During detailed evaluation of "Technical Bids", BUIDCo will determine whether each Bid (a) meets the eligibility criteria defined in Clause 3 and 4; (b) has been properly signed; (c) is accompanied by the required securities and; (d) is substantially responsive to the requirements of the Bidding documents.

During the detailed evaluation of the "Financial Bid", the responsiveness of the bids will be further determined with respect to the remaining bid conditions, i.e., priced bill of quantities, technical specifications, and drawings.

A substantially responsive "Financial Bid" is one which conforms to all the terms, conditions, and specifications of the Bidding documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality or performance of the Works; (b) which limits in any substantial way, inconsistent with the Bidding documents, BUIDCo's rights or the Bidder's obligations under the Contract; or (c) whose rectification would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.

If a "Financial Bid" is not substantially responsive, it will be rejected by BUIDCo, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

26. Correction of Errors

"Financial Bids" determined to be substantially responsive will be checked by BUIDCo for any arithmetic errors. Errors will be corrected by BUIDCo as follows:

- (a) Where there is a discrepancy between the rates in figures and in words, the rate in words will govern; and
- (b) Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quality, the unit rate as quoted will govern.

The amount stated in the "Financial Bid" will be corrected by BUIDCo in accordance with the above procedure and the bid amount adjusted with the concurrence of the Bidder in the following manner:

- (a) If the Bid price increases as a result of these corrections, the amount as stated in the bid will be the 'bid price' and the increase will be treated as rebate;
- (b) If the bid price decreases as a result of the corrections, the decreased amount will be treated as the 'bid price'

Such adjusted bid price shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount the Bid will be rejected, and the Earnest money may be forfeited in accordance with Sub-Clause 16.6(b).

27. Evaluation and Comparison of Financial Bids

BUIDCo will evaluate and compare only the Bids determined to be substantially responsive in accordance with Sub-Clause 25.2.

In evaluating the Bids, BUIDCo will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:

- (a) making any correction for errors pursuant to Clause 26; or
- (b) making an appropriate adjustments for any other acceptable variations, deviations.

BUIDCo reserves the right to accept or reject any variation or deviation. Variations and deviations and other factors, which are in excess of the requirements of the Bidding documents or otherwise result in unsolicited benefits for BUIDCo, shall not be taken into account in Bid evaluation.

If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer's estimate of the cost of work to be performed under the contract, BUIDCo may require the Bidder to produce detailed price analysis for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analysis, BUIDCo may require that the amount of the performance security set forth in Clause 31 be increased at the expense of the successful Bidder to a level sufficient to protect BUIDCo against financial loss in the event of default of the successful Bidder under the Contract.

A bid, in the opinion of employee which contains several items in the Bill of Quantities which are unrealistically priced low and which cannot be substantiated satisfactorily by the bidder, may be rejected as non-responsive.

F. AWARD OF CONTRACT

28. Award Criteria

Subject to Clause 29, BUIDCo will award the Contract to the Bidder whose Bid has been determined

- to be substantially responsive to the Bidding documents and who has offered the lowest evaluated Bid Price on overall evaluation for both schedule A (Percentage Rate Method) & Schedule B (Item Rate Method); and
- to be within the available bid capacity adjusted to account for his bid price which is evaluated the lowest in any of the packages opened earlier than the one under consideration.

In no case, the contract shall be awarded to any bidder whose available bid capacity is less than the evaluated bid price, even if the said bid is the lowest evaluated bid. The contract will in such cases be awarded to the next lowest bidder at his evaluated bid price.

29. BUIDCo's Right to Accept any Bid and to Reject any or all Bids

Notwithstanding Clause 28, BUIDCo reserves the right to accept or reject any Bid, and to cancel the Bidding process and reject all Bids, at any time prior to the award of Contract, without thereby in incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the ground for BUIDCo's action.

30. Notification of Award and Signing of Agreement

- The Bidder whose Bid has been accepted will be notified of the award by BUIDCo prior to expiration of the Bid validity period by cable, telex or facsimile confirmed by registered letter. This letter (hereinafter and in the *General Conditions of Contract* called the "Letter of Acceptance") will state the sum that BUIDCo will pay the Contractor in consideration of the execution, completion and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract called the "Deter and in the Contract called the "Contract or as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").
- The notification of award will constitute the formation of the Contract, subject only to the furnishing of the performance security in accordance with the provisions of Clause 31.
- The Agreement will incorporate all agreements between BUIDCo and the successful Bidder. It will be signed by BUIDCo and the successful Bidder, after the performance security is furnished.

31. Performance Security

- Within 15 (Fifteen) days of receipt of the Letter of Acceptance, the successful Bidder shall deliver to BUIDCo a Performance Security in any of the forms given below for an amount equivalent 2% of the Contract price plus additional security for unbalanced Bids in accordance with the Clause 27.4 of ITB and the provisions of Bihar Financial Rules.
- If the performance security is provided by the successful Bidder in the form of Bank Guarantee, it shall be issued either (a) at the Bidder's option, by a Nationalized/ Scheduled Indian bank within state or (b) acceptable to BUIDCo.
- Failure of the successful Bidder to comply with the requirements of Sub-Clause 31.1 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Bid Security.

32. Advance Payment and Security

• BUIDCo will provide an Advance Payment on the Contract Price as stipulated in the General Conditions of Contract, subject to maximum amount, as stated in the Contract Data.

33. Corrupt or Fraudulent Practices

- BUIDCo will reject a proposal for award if it determines that the Bidder recommended for award has
 engaged in corrupt or fraudulent practices in competing for the contract in question and will declare the firm
 ineligible, either indefinitely or for a stated period of time, to be awarded a contract with BUIDCoor any other
 agencies, if it at any time determines that the firm has engaged in corrupt or fraudulent practices in
 competing for the contractor, or in execution.
- Furthermore, Bidders shall be aware of the provision stated in Sub-Clause and Sub-Clause 14 of the General Conditions of Contract.

G. APPENDIX to ITB

Clause Reference with respect to Section - I.

1. Name of the Employer: Executive Engineer, BUIDCo Motihari.

2. The last five years means for this tender

<u>2014- 2015</u>					
<u> 2015 – 2016</u>					
<u> 2016 – 2017</u>					
<u> 2017 – 2018</u>					
<u> 2018 – 2019</u>					

3. The required annual financial turn over amount is Rs. 1057.5 Lakh

4. The required minimum value of one similar work is Rs. 211.5 Lakh

5. **Executed in any last 5 years**

- Underground Pipe Laying work 4.5 Km
- Construction of STP 2 MLD by any technology 1 Number & its O&M for 6 Months
- 6. The electric work is :- As per BOQ
- 7. The water supply/ sanitary works is :- As per BOQ
- 8. Liquid assets and/or availability of credit facilities is 10% 0f Estimated Cost.
- 10. deleted
- 11 The pre –bid meeting will take place at 10.02.2020 at 03:00 PM at EE, BUIDCo Motihari Office.
- 12. The technical bid will be opened at 3.30 pm on 18.02.2020 through website www.eproc.bihar.gov.in.

13. Address of the Employer

Executive Engineer,

Bihar Urban Infrastructure Development Corporation Limited.

1st floor Bikas Bhawan, Collectorate Campus, Motihari.-845401, Email: buidcomotihari@gmail.com)

14. Identification:

Bid for:

Renovation, Rehabilitation and Conservation of Motijheel and its 12 Months O&M in

Motihari Town, Bihar

NIT :- 09/2019-20

15. Bids may be submitted only in <u>Item rate as per BOQ.</u>

- **16.** The bidders not to quote the rate beyond 10% below of the estimated cost for schedule A. Failing which the bid shall be rejected.
- 17. Schedule of rate applicable for Percentage Rate Method is BCD/RCD SOR 2016 & Prevailing Market rate.
- 19. The bid should be submitted (Upload) latest by 3<mark>.00 PM on 15.02.2020</mark> through website: <u>www.eproc.bihar.gov.in</u> only.
- 20. The technical bid will be opened at 3.30 PM on 18.02.2020 through website www.eproc.bihar.gov.in.
- 21. The Bank Draft in favor of <u>Executive Engineer</u>, <u>Bihar Urban Infrastructure Development Corporation</u> <u>Limited. Motihari.</u>
- 22. Escalation factors (for the cost of works executed and financial figure to a common base value for works completed)

Year before Multiply factor

One	1.10
Тwo	1.21
Three	1.33
Four	1.46
Five	1.61

Annexure -1

[Reference CI. 4.4(B) (a)]

Name of Equipment	No.	Capacity	Age	Condition	Ownership Status		Remarks
Name of Equipment	NO.	Capacity	Age	Condition	Owned	Leased	Kelliai KS
1	2	3	4	5	6	7	9
Concrete Mixture	2						
Batch Mix Plant	1						
Steel Shuttering	300 Sqm						
Tipper/ Dumpers	1						
Transit Mixture	2						
Generator	2						
Props (Staging Pipes)	1 Km						

Details of construction and equipment/indicative likely to be used in carrying out the work

Signature of bidder ------

ANNEXURE – II

List of Key Personnel to be deployed on Contract Work (Indicative)

					Contra	ct Packa	ge Size		
SI. No.	Personnel*	Qualification	Rs. 5- 30 Lacs	Rs. 30 Lacs to 70 Lacs	Rs. 70 Lacs to 2 Crores	Rs. 2-10 Crores	Rs. 10- 30 Crores	Rs. 31- 50 Crores	More than 50 Crores
1.	Project Manager	B.E. Civil + 10 Years Exp. (5 years as Manager) or retired E.E.					1 No.	1 No.	1 No.
2.	Site Engineer	B.E. Civil + 07 Years Exp. (3 years in Road Construction) or retired A.E.			1 No.	1 No.	1 No.	2 Nos.	4 Nos.
3.	Plant Engineer	B.E. Mech./ Civil + 05 Years Exp. or Dip. Mech + 07 Years Exp. or Retired J.E.				1 No.	1 No.	1 No.	2 Nos.
4.	Quantity Surveyor	B.E. Civil + 05 Years Exp. or Dip. Civil + 07 Years Exp.						1 No.	2 Nos.
5.	Soil & Material Engineer	B.E. Civil + 07 Years Exp.						1 No.	2 Nos.
6.	Survey Engineer	B.E. Civil + 03 Years Exp. or Dip. Civil + 05 Years Exp.						1 No.	2 Nos.
7.	Site Supervisor	Fresh Graduate in Civil or Diploma Civil + 03 Years Exp. or retired I.T.I Holder.		1 No.	1 No.	1 Nos.	2 Nos.	3 Nos.	4 Nos.
	Total			1	2	3	5	10	17

[Reference Cl. 4.4(B) (b)]

* Bidder should submit the manpower detail for Contract Package Size Rs. 10 to 30 Crore as mentioned in the above table.

SECTION 2

QUALIFICATION INFORMARION

(To be filled in by Bidder)

QUALIFICATION INFORMATION

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

1. For Individual Bidders

Constitution or legal status of Bidder (*Attach copy*)

Place of registration:

Principal place of business:

Power of attorney of signatory of Bid (Attach)

Total value of Civil Engineering construction	20	20	
work performed in the last five years**	20	20	
(in Rs. Million)	20	20	

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

Proje ct Nam e	Name of the Employ er*	Descriptio n of work	Contra ct No.	Value of Contra ct (Rs. In Crore s)	Date of issue of wor k orde r	Stipulat ed period of completi on	Actual date of completi on *	Remarks explaining reasons for delay & work completed)

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

** Immediately preceding the financial year in which bids are received.

 β Attach certificate from Chartered Accountant

1.3.2. Quantities of work executed as prime contractor, work performed in the past as a nominated subcontractor will also be considered provided the sub-contract involved execution of all main items of work described in the bid document, provided further that all other qualification criteria are satisfied (in the same name and style) in the last five years :**

			Qu	Quantity of work performed (cum) @ Remarks							
Yea r	Nam e of the work	Name of the Employer *	Cement Concrete (including RCC & PCC)	te Masonry		WBM	WMM	Bitumino us Work	Remarks* (indicate contract Ref)		
2020											
2020											
2020											
2020											
2020											

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

Descriptio n of works	Place & State	Contract No.	Name & Address of Employ er	Value of Contract (Rs Cr)	Stipulated Period of Completio n		Anticipated date of completion
1	2	3	4	5	6	7	8

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

- @ The item of work for which data is requested should tally with that specified in ITB clause 4.5A (c)
- ** Immediately preceding the financial year in which bids are received.

Delete, if prequalification has been carried out.

(B) Works for which bids already submitted :

Descriptio n of works	Place & State	Name & Address of Employer	Estimated value of works (Rs Cr)	Stipulated period of completion	Date when decision is expected	Remarks, if any
1	2	3	4	5	6	7

1.4 Availability of key items of Contractor's Equipment essential for carrying out the Works [Ref. Clause 4.5(B)(a)]. The Bidder should list all the information requested below. Refer also to Sub Clause 4.3 (d) of the Instruction to Bidders.

Description		Requirement	Av	ailability proposa	als	Remarks (from
of works	No	Capacit y	Owned/Lease d to be procured	Nos./Capac ity	Age/ Conditio n	whom to be purchased)
1	2	3	4	5	6	7

Qualifications and experience of key personnel required for administration and execution of the Contract [Ref. Clause 4.5(B)(b)]. Attach biographical data. Refer also to Sub Clause 4.3 (e) of instructions to Bidders and Sub Clause 9.1 of the Conditions of Contract.

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

Proposed sub-contracts and firms involved. [Refer ITB Clause 4.3(k)]

Sanction of the works	Value of Sub- contract	Sub-contractor (Name & Address)	Experience in similar work
1	2	3	4

Attach copies of certificates on possession of valid license for executing water supply/ sanitary work/ building electrification works [Reference Clause 4.5(d) & Clause 4.5(e)]

*1.8 Financial reports for the last five years: balance sheets, profit and loss statements, auditors' reports (in case of companies/corporation), etc. List them below and attach copies.

Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. List them below and attach copies of support documents.

Name, address and telephone, telex and fax numbers of the Bidders' bankers who may provide references if contacted by BUIDCo.

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

Information on litigation history in which the Bidder is involved.

Statement of compliance under the requirements of Sub Clause 3.2 of the instructions to Bidders. (Name of Consultant engaged for project preparation is **)

Proposed work method and schedule. The Bidder should attach descriptions, drawings and charts as necessary to comply with the requirements of the Bidding documents. [Refer ITB Clause 4.1 & 4.3(1)]

Programme

Quality Assurance Programme

2. Additional Requirements

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

- (i) Affidavit
- (ii) Undertaking
- (iii) Update of original prequalification application
- (iv) Copy of original prequalification application
- *** (v) Copy of prequalification letter

** Fill the Name of Consultant.

*** Delete, if prequalification has not been carried out.

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

(CLAUSE 4.2 (i) OF ITB)

BANK CERTIFICATE

This is to certify that M/s	is a reputed company
with a good financial standing.	

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

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

AFFIDAVIT

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

(Signed by an Authorized Officer of the Firm)

Title of Officer

Name of Firm

DATE

UNDERTAKING

(Signed by an Authorised Officer of the Firm)

Title of Officer

Name of Firm

DATE

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GENERAL GUIDELINES

- 1. This book of "General Conditions of Contract" is applicable to both types of tenders i.e. "Percentage rate tenders" and "Item rate tenders". Accordingly alternative provisions for conditions Nos. 4, The appropriate alternatives will be applicable in specific cases depending on whether this is used for percentage rate tender or item rate tender Schedules A to F, special conditions/ specifications and drawing only will be issued to intending bidders. The standard form shall form part of the agreement to be drawn and signed by both parties after acceptance of tender.
- 3. All blanks are confined to Notice Inviting Tender and Schedules A to F.
- 4. Authority approving the Notice Inviting Tender (NIT) shall fill up all the blanks in 6 and in Schedules B to F before issue of Tender Papers.
- 5. The intending bidders will quote their rates in Schedule A.
- 6. The Performa for registers and Schedules A to F are only for information and guidance. These are not to be filled in the Standard Form. The Schedules with all blanks, duly filled shall be separately issued to all intending tenderers.

Bihar Urban Infrastructure Development Corporation Limited (A Govt. Of Bihar Undertaking)

1. Tender on the behalf of Government of Bihar invites percentage rate For SOR Item and Item rate for Non SOR Item bids from the eligible and approved contractor registered with State other State &Central Government / PSU or any Agency of National or International repute for each of the following works.

District	Name of work	Estimated in Rs.	cost	Earnest money in Rs.	Time allowed for comple tion	Last date and time for receipt of application for issue of tender forms	Time date opening tender	and of of	Place of sale and submission of tender
1	2	3		4	5	6	7		8
As per NIT									

The bidders who download the bidding documents from the internet site www.eproc.bihar.gov.in

would have to pay the cost of bid documents and submit it in a separate envelope marked cost of bidding document downloaded from internet.

Criteria of eligibility for issue of tender document

Issue of Tender to any Contractor registered with Central Government / any State Government or any PSU or an agency of international or national repute may be submitted without the registration. However, registration with the concerned works department will be essential after issue of L.O.A.

Following documents duly attested by gazetted officer and photocopied are required at the time of submission of bid (In case of other State PWD/ CPWD/ any PSU eligible contractors or Agencies of National/ International repute following documents (from a to c) have to be submitted after letter of acceptance).

- (a) Registration paper (renewed) of appropriate class and deptt.
- (b) Latest sales tax clearance/ sales tax registration in State of Bihar.
- (c) Latest labour license (renewed) in State of Bihar.
- (d) Power of attorney/ partnership deed/ MoU of private limited company.
- (e) Bank Draft for B.O.Q. cost.
- (f) Tools & plans ownership/ lease certificate required in aforesaid work duly verified from Project director / other State PWD / CPWD Contractor will provide definite proof from appropriate authority for tools & Plant and Undertaking to install it on works site after getting letter of acceptance.
- Agreement shall be drawn with the successful tenderer on Agreement Form attached. Tenderer shall quote his rates as overall percentage above/below for SOR Items where as for Non SOR items bidder should quote item wise rate. The amount of B.O.Q. as per various terms and conditions of the said form which will form part of the agreement.
- 3. The amount of Estimated Cost or B.O.Q. Cost of the work may vary.
- 4. The earnest money will be applicable on the sanction cost of B.O.Q. only.
- 5. The time allowed for carrying out the work will be from the same day after the date of written orders to commence the work or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
- 6. The site for the work is available.
The site for the work shall be made available in parts as specified below :-

7. Deleted

Tender documents consisting of plans, specifications, the schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen at the site of the<u>www.eproc.bihar.gov.in</u>. Tender documents, including standard form, will be **Downloaded** from www.eproc.bihar.gov.in during the **Dates** specified in Appendix to ITB.

- 8. Original Draft of Cost of B.O.Q and Earnest Money in Prescribed form, which should always be placed in sealed envelope, with the name of work and due date written on the envelopes, will be received by the Chief Engineer(North), BUIDCo/ Suprintending Engineer(Tirahut), BUIDCo/ Executive Engineer, BUIDCo, Motihari.
- 9. The Contractor shall be required to deposit an amount equal to 2% of the tendered value of the work as performance guarantee in the form as mentioned in Bihar Financial Rules. For works costing more than one Crore, bank guarantee is acceptable.
- 10. The description of the work is as follows: -

As per NIT

Copies of other drawings and documents pertaining to the works will be open for inspection by the tenderers at the office of the above-mentioned officer.

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and bub-soil (so far as is practicable), the form and nature of the site, the means of access to the site the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tool & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by BUIDCo and local conditions and other factors having a bearing on the execution of the work.

- 11 Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
- 12 The competent authority on behalf of Governor of Bihar reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall bound to perform the same at the rate quoted.
- 13 The contractor shall not be permitted to tender for works in the BUIDCo (responsible for award and execution of contracts) in which his near relative is posted as **Accountant** or as an officer in any capacity between the grades of **Executive Engineer** and **Junior Engineer** (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any **officer** in BUIDCo.Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of **BUIDCo**.

- 14 No Engineer of Gazetted rank or other Gazetted officer employed in Engineering or Administrative duties in an Engineering Department of the Government of Bihar is allowed to work as a contractor for a period of two years after his retirement from Government service, without the previous permission of the Government of Bihar in writing. This contract is liable to be cancelled if either the contractor or any of his employee is found any time to be such a person who had not obtained the permission to the Government of Bihar as aforesaid before submission of the tender or engagement in the contractors service.
- 15 The tender for the works shall remain open for acceptance for a period of 120 days from the date of opening of tenders. If any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit **100%** of the said earnest money as aforesaid.
- 17. BUIDCo has right to cancel or postpone any work without given any notice or clarification.
- 18. BUIDCo may add or delete any of the condition required for execution of any work.
- 19. This Notice Inviting Tender shall form a part of the contract document. The successful tenderer/contractor, the **Competent Authority**, shall issue the letter of acceptance and will sign the contract within 15 days after submitting the performance guarantee.

Bihar Urban Infrastructure Development Corporation Limited (<u>A Govt. Of Bihar Undertaking</u>)

STATE - BIHAR

Organization : BUIDCo

Percentage Rate Tender For SOR Items & Item Rate Non SOR items & Contract for Works

(A) Tender for the work of: -

As per NIT

(*i*) To be submitted (Upload) by DATE 15.02.2020 up to TIME 3.00 PM

(ii) To be opened at **DATE 18.02.2020 TIME03:30 PM** Through website.www.eproc.bihar.gov.in

TENDER

I/We have read and examined the notice inviting tender, schedule, A,B,C,D,E & F. Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Governor of Bihar within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all in respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respect in accordance with, such conditions so far as applicable.

We agree to keep the tender open for one hundred twenty (120) days from the due date of submission thereof and not to make any modifications in its terms and conditions.

Bid cost (Non Refundable) and EMD for one or all groups as mentioned in NIT shall be submitted by the bidder. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/we agree that the said Governor of Bihar or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if/we fail to commence work as specified, I/we agree that Governor of Bihar or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money absolutely shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, up to maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived therefrom to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated	
Nitness :	
Address :	
Occupation :	

Signature of Contractor Postal Address

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by behalf of the Governor me for and on of Bihar for a sum of Rs.....(Rupees.....) The letters referred to below shall form part of this contract Agreement :a) b) c) For & on behalf of the Governor of Bihar. Signature Dated



Bihar Urban Infrastructure Development Corporation Limited

(A Govt. of Bihar Undertaking)

- 1. All work proposed for execution by contract will be notified in a form of invitation to tender pasted in public places and signed by the officer inviting tender or by publication in News papers and the internet as the case may be.
 - This form will state the work to be carried out, as well as the date for submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender, and the amount of the security deposit to be deposited by the successful tenderer and the percentage, if any, to be deducted from bills. Copies of the specifications, designs and drawings and any other documents required in connection with the work signed for the purpose of identification by the officer inviting tender shall also be open for inspection by the contractor at the office of officer inviting tender during office hours.
 - 2. In the event of the tender being submitted by a firm, it must be signed separately either by one or all the partners or person duly authorized by the partners, it must be signed on behalf of the firm by a person holding the requisite authorizations, such authorizations to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act, 1952.
 - **3.** Receipts for payment on account of work done, when executed by a firm, must also be signed by one or all the partners or a duly authorized signatory of the firm.
 - 4. Any person who submits a tender shall fill up the usual printed form, stating at what rate he is willing to undertake each item of the work. Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort, will be liable to rejection. No single tender shall include more than one work, but contractors who wish to tender two or more works shall submit separate tenders for each; with the nature and number of works to which they refer on the envelope.

The rate(s) must be quoted in decimal coinage. Amounts must be quoted in full rupees by ignoring fifty paisa and less and considering more that fifty paisa as rupee one.

A. In case of Percentage Rate Tenders, tenderer shall fill up the usual printed form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities at Schedule- A, he will be willing to execute the work Tenders, which propose any alteration in the work specified in the said form of invitation tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort, will be liable to rejection. No single tender shall include more than one work but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelope.

If for any special reasons, the contract provides for the payments for work done to be made at a specified percentage below or above the rates entered in the sanctioned estimate of the work (or the Scheduled of Rates), it should be stated in clear terms in the contract that the deductions or additions, as the case may be of the percentage, will be calculated on the

Applicable for Item Rate Tender only (PWD- 3)

Directions

4A.

Applicable for Percentage Rate Tender only (PWD - 2) gross, and not the net amounts of thebills for work done and in fixing the percentage it should be borne in mind that the calculations will be made.

- 5. The officer inviting tender or his duly authorized assistant will open tenders in the presence of any intending contractors who may be present at the time, and will enter the amount of the several tenders in a comparative statement in a suitable form. In the event of a tender being accepted, a receipt for the earnest money forwarded therewith shall thereupon be given to the contractor who shall thereupon for the purpose of identification sign copies of the specifications and other documents mentioned in Rule-I. In the event of a tender being rejected, the earnest money forwarded with such unaccepted tender shall thereupon be returned to the contractor remitting the same, without any interest.
- The officer inviting tenders shall have the right of rejecting all or any of the tenders and will 6. not be bound to accept the lowest or any other tender.
- The receipt of an accountant or clerk for any money paid by the contractor will not be 7. considered as an acknowledgment or payment to the officer inviting tender and the contractors shall be responsible for seeing that he procures a receipt signed by the office inviting tender or a duly authorized person.
- The memorandum of work tendered for and the schedule of materials to be supplied by the 8. department and their issue-rates, shall be filled and completed in the office of the officer inviting tender before the tender form is issued. If a form is issued to an intending tenderer without having been so filled in and incomplete, he shall request the officer to have this done before he completes and delivers his tender.
- For works of sensitive nature the tenderers shall sign a declaration under the Official 9. Secrets Act 1923, for maintaining secrecy of the tender documents drawing or other records connected with the work given to them. The unsuccessful tenderers shall return all the drawing given to them.

10. In the case of Item Rate Tenders, only rates quoted shall be considered. Any tender containing percentage below/above the rates guoted is liable to be rejected. Rates guoted by the contractor in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy if any discrepancy found or the rates which correspond with the amount worked out of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words tally but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount.

10A. In case of Percentage Rate Tenders only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected. Percentage guoted by the contractor in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy. However if the contractor has worked out the amount of the tender and if any only (PWD - 2) discrepancy is found in the percentage quoted in words and figures, the percentage which corresponds with the amount worked out by the contractor shall, unless otherwise proved, be take as correct. If the amount of the tender is not worked out by the contractor or it does not correspond with the percentage written either in figures or in words then the percentage quoted by the contractor in words shall be taken as correct. Where the percentage quoted by the contractor in figures and in words tally but the amount is not worked out correctly, the percentage quoted by the contractor will, unless otherwise proved, be taken as correct and not the amount.

> In the case of any tender where unit rates of any item/items appear unrealistic, such tender 11. will be considered as unbalanced and in case the tenderer is unable to provide satisfactory explanation such a tender is liable to be disgualified and rejected.

Applicable for Item Rate **Tender only** (PWD - 3)

Applicable for Percentage Rate Tender

12. All rates shall be quoted on the tender form. The amount for each item should be worked out and requisite totals given. Special care should be taken to write the rates in figures as well Applicable for as in words and the amount in figures only, in such a way that interpolation is not possible. The total amount should be written both in figures and in words. In case of figures, the word 'Rs' should be written before the figure of rupees and word 'P' after the decimal figures, e.g. 'Rs 2.15 P' and in case of words, the word, 'Rupees' should precede and the word 'Paise' should be written in the end. Unless the rate is in whole rupee and followed by the word 'only' it should invariably be up to two decimal places. While quoting the rate in schedule of quantities, the word 'only' should be written closely following the amount and it should not be written in the next line.

12A. In Percentage Rate Tender, the tenderer shall guote percentage below/above (in figures as well as in words) at which he will be willing to execute the work. He shall also work out the Applicable for total amount of his offer and the same should be written in figures as well as in words in such a way that no interpolation is possible. In case of figures, the word 'Rs' should be Rate Tender written before the figure of rupees and word P after the decimal figures, e.g. 'Rs 2.15 P and only (PWD-2) in case of words, the word 'Rupees' should precede and the word 'paisa' should be written at the end.

> The Quoted rate less than x % below the BOQ cost will be unworkable and bid will be rejected where x = 10 %; if materials will not be issued by BUIDCo. And if materials will be issued by BUIDCo then

$$X = (A - B) / A X 10 \%$$

Where A = BOQ Cost

B = Cost of materials stipulated to be issued by BUIDCo.

Where the value of X will not be less than 10% in other words it will be within 10%.

- (i) The contractor whose tender is accepted, will be required to furnish performance guarantee of 2 (two percent) including earnest money of the tendered amount within specified period. This guarantee shall be in the form of Govt. Securities or fixed deposit receipt of any scheduled bank, guarantee bonds of any scheduled bank or State Bank of India or Bank guarantee from any schedule bank in the State for works of more than one crore.
 - (ii) The contractor whose tender is accepted will also be required to furnish by way of Security Deposit for the fulfillment of his contract, an amount equal to 8 % of the tendered value of the work. The security deposit will be collected by deductions from the running bills of the contractor at the rates mentioned above
- 14. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated in writing to the Engineer-in-Charge.
- 15. Sales-tax, purchase tax, turnover tax, service tax, entry tax royalty or any other tax on material in respect of this contract shall be payable by the Contractor and Government will not entertain any claim whatsoever in respect of the same.
- 16. The contractor shall give a list of both gazetted and non-gazetted P.W.D. employees related to him posted in the division, if any.
- 17. The tender for the work shall not be witnessed by a contractor or contractors who himself/themselves has/have tendered or who may and has/have tendered for the same work. Failure to observe this condition would render, tenders of the contractors tendering, as well as witnessing the tender, liable to summary rejection.
- 18. The tender for composite work includes in addition to building work all other works such as sanitary and water supply installations drainage installation, electrical work, horticulture work, roads and paths etc. The tenderer apart from being a registered contractor (B&R) of appropriate class, must associate himself with agencies of appropriate class which are eligible to tender for sanitary and water supply drainage, electrical and horticulture works in the composite tender.

Item Rate **Tender only**

Percentage

13.

Name of Work	Name of Particular of Div. where work is	Value of Work	Position of work in Progress	Remarks
1	2	3	4	5

19. The contractor shall submit list of works which are in hand (progress) in the following form:-

20. The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued thereunder from time to time. If he fails to do so, his failure will be a breach of the contract and the General Manager (Works)/ Project Director may in his discretion without prejudice to any other right or remedy available in law cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.

CONDITIONS OF CONTRACT

- **Definitions :** 1. The contract means the document forming the tender and acceptances thereof and the formal agreement executed between the competent authority on behalf of the Governor of Bihar and the Contractor, together with the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time form one contract and shall be complementary to one another.
 - 2. In the contract, the following expressions shall, unless the context otherwise requires have the meanings, hereby respectively assigned to them :
 - i) The expression works or work shall, unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional.
 - ii) The site shall mean the land/or other places on. into or through which work is to be executed under the contract or any adjacent land, path or street through which work is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract.
 - iii) The Contractor shall mean the individual, firm or company, whether incorporate or not, undertaking the works and shall include the legal personal representative of such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm of company.
 - iv) The Engineer-in-Charge means the Engineer officer who shall supervise and be incharge of the work and who shall sign the contract on behalf of the Governor of Bihar as mentioned in Schedule 'F' hereunder.
 - v) Government or Government of Bihar shall mean the Governor of Bihar.
 - vi) Excepted Risk are risks due to riots (other than those on account of contractor employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, any act of Government, damages from aircraft, acts of God, such as earthquake, lightening and unprecedented floods, and other causes over which the contractor has no control and accepted as such by the Accepting Authority Provided that the contractor is also to show that he has taken all due precautions to avoid / un minimise any adverse after / damage from the above or causes solely due to use or occupation by Government of the part of the works in respect of which a certificate of completion has been issued or a caused solely due to Government's faulty design of works.
 - vii) Bill of quantity means the price and completed Bill of Quantities forming part of the Bid.
 - viii) <u>The Defect liability certificate</u> is the certificate issued by Engineer-in-Charge after defect liability period has ended and upon correction of defects by the contractor.
 - ix) <u>The defect liability period</u> will be decided by BUIDCO for different nature of works from date of completion of the work and must be mentioned in the agreement.

It will be decided by the department for different nature of work from time to time as mentioned in contract Data.

- x) <u>The intended completion date</u> is the time intended to complete the work by the contractor.
- xi) <u>The start date</u> is given in the contract data. It is the date when the contractor shall commence execution of the works. It does not necessarily coincide with any of the site possession date.

- A sub contractor is a person or corporate body who has a contract with the contractor xii) to carry out a part of the construction work in the contract, which includes work on the site.
- Temporary works are works designed, constructed, installed and removed by the xiii) contractor that are needed for construction or installation of the works.
- Market Rate shall be the rate as decided by the competent authority on the basis of xiv) the cost of materials and labour at the site where the work is to be executed plus the percentage mentioned in Schedule 'F' to cover, all overheads and profits.
- Schedule(s) referred to in these conditions shall mean the relevant schedule(s) xv) annexed to the tender papers or the standard Schedule of Government mentioned in Schedule 'F' hereunder, with the amendments thereto issued up to date of receipt of the tender.
- xvi) Department means any department of Government of Bihar, which invite tenders on behalf of Governor of Bihar as specified in schedule 'F'.
- xvii) Specifications means the specifications followed by relevant department of the Government of India / State Government.
- xviii) Tender value means the value of the entire work as stipulated in the letter award.
- 3. Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall whenever required include feminine gender and vice versa. Performance
 - Heading and Marginal notes to these General Conditions of Contract shall not be deemed to 4. form part thereof or be taken info consideration in the interpretation or construction thereof or of the contract.
 - 5. The contractor shall be furnished, free of cost one certified copy of the contract documents except standard specifications, Schedule of Rates and such other printed and published documents, together with all drawings as may be forming part of the tender papers. None of these documents shall be used for any purpose other that that of this contract.
- The work to be carried out under the Contract shall, except as otherwise provided these 6. Works to be conditions, include all labour, materials, tools, plants, equipment and transport which may be carried out : required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the Schedule of Quantities (Schedule - A) shall unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion of the work as aforesaid in accordance with good practice and recognized principles.
- The contractor shall be deemed to have satisfied himself before tendering as to the 7. Sufficiency correctness and sufficiency of his tender for the works and of the rates and prices quoted in of Tender the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.
- 8. The several documents forming the contract are to be taken as mutually explanatory of one Discrepanci another, detailed drawings being followed in preference to small scale drawing and figured es and dimensions in preference to scale and special conditions in preference to General Adjustment Conditions. of Errors
 - In the case of discrepancy between the schedule of Quantities, the Specifications and/or the Drawings, the following order of preference shall be observed :
 - i) Description of Schedule of Quantities.
 - ii) Particular Specification and Special Condition, if any
 - iii) Drawings.

Scope and

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- iv) MORT & H specification.
- v) Indian Standard Specifications of B.I.S.
- If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the contractor.
- Any error in description, quantity or rate in Schedule of Quantities or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.
- 9. The successful tenderer/contractor, after submitting the performance guarantee i.e. within 15 days of receipt of letter of acceptance shall attend the office of the Engineer-in-Charge for authentication signing and completion of the contractor document and execute the agreement consisting of :
 - i) the notice inviting tender, all the documents including drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
 - ii) Standard P.W.D. Form as mentioned in Schedule 'F' consisting of :

Various standard clauses with corrections up to the date stipulated in Schedule 'F' along with annexure thereto.

iii) Drawing.

Signing of

Contract

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CLAUSE OF CONTRACT

CLAUSE 1

- Performance Guarantee
- (i) The contractor shall submit an irrevocable PERFORMANCE GUARANTEE of 2% (Two percent) of the tendered amount including earnest money in the shape as mentioned in the Bihar Financial Rules or Bank Guarantee (for work costing more than one crore) or any other deposits mentioned for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in scheduled 'F' from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge up to a maximum period as specified in schedule 'F' on written request of the contractor stating the reason for delays in procuring the Bank Guarantee, to the satisfaction of the Engineer-in-Charge. This guarantee shall be in the form of N.S.C. of Post Office/ Pledged in favour of department; D.D. of any Scheduled Bank or State Bank of India or Bank Guarantee (for work costing more than Rupees one Crore.
 - (ii) The performance Guarantee shall be initially valid up to 28 days beyond the defect liability.
 - (iii) The Engineer-in-Charge shall not make a claim under the Performance guarantee except for amounts to which the Governor of Bihar is entitled under the contract (notwithstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:
 - (a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance guarantee.
 - (b) Failure by the contractor to pay Governor of Bihar 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-in-Charge.
 - (c) Failure by the contractor to rectify any defects as defined in the defect liability clause in the schedule – F of contract data to the satisfaction of the Engineer incharge.
 - (iv) In the event of the contract being determined or rescinded under provisions of any of the clause/condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the Governor of Bihar.

CLAUSE 1 A

Recovery of Security Deposit The person/persons whose tender(s) may be accepted (hereinafter called the contractor) shall permit BUIDCo at the time of making any payment to him for work done under the contract to deduct a sum at 8 % (eight percent) from the gross amount of each running bill till full amount of security deposit 10% (ten percent) of agreement value or value of work (whichever is higher) is reached. If value of work exceeds the agreement value, security deposit (10%) will be recovered for the exceeded work.

All compensations or the other sums of money payable by the contractor under the terms of this contract may be deducted from, or paid by the sale of a sufficient part of his security deposit or from the interest arising there from, or from any sums which may be due to or may become due to the contractor by Government on any account whatsoever and in the event of his Security Deposit being reduced by reason of any such deductions or sale as aforesaid, the contractor shall within 10 days make good in cash or fixed deposit receipt tendered by the State Bank of India or by Scheduled Banks or Government Securities (if deposited for more than 12 months) endorsed in favour of the Engineer-in-Charge, any sum or sums which may have been deducted from, or raised by sale of his security deposit or any part thereof. The security deposit shall be collected from the running bills of the contractor at the rates

mentioned above and the earnest money at the time of tenders will be treated a part of the Security Deposit.

CLAUSE 2

Compensation for Delay (Liquidated Damage If the contractor fails to maintain the required progress in terms of clause 5 or to complete the work and clear the site on or before the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the Government on account of such breach, pay as agreed compensation the amount calculated at the rates stipulated below as the Superintending Engineer (whose decision in writing shall be final and binding) may decide on the amount of tendered value of the work for every completed day/month (as applicable) that the progress remains below that specified in Clause 5 or that the work remains incomplete.

This will also apply to items or group of items for which a separate period of completion has been specified.

i) Compensation for delay of work - @ 2 % per month of delay to be computed on per Day basis

Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10% of the Tendered Value of work or to the Tendered Value of the item or group of items of work for which a separate period of completion is originally given.

The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the BUIDCo. In case, the contractor dies not achieve a particular milestone mentioned in schedule- F, or the rescheduled milestone(s) in terms of Clause 5.4, the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied at the final grant of extension of time. Withholding of this amount on failure to achieve a milestone, shall be autoPmatic without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However, no interest, whatsoever, shall be payable on such withheld amount.

CLAUSE 2A

In case, the contractor completes the work ahead of scheduled completion time, a bonus @ 1% (one percent) of the tendered value per month computed on per day basis, shall be payable the contractor, subject to a maximum limit of 5% (five percent) of the tendered value. The amount of bonus, if payable, shall be paid along with final bill after completion of work. Provided always that provision of the Clause 2A shall be applicable only when so provided in 'Schedule F'.

CLAUSE 3

When Contract can be Determined / Resigned Subject to the other provisions contained in this clause the Engineer-In-Charge may, without inferior workmanship, any claims for damages and/or any other provisions of this contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases:

- i) It the contractor having been given by the Engineer-in-Charge a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or unworkman like manner shall omit to comply with the requirement of such notice for a period of seven days thereafter.
- ii) If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wind up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or the

creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.

- iii) if the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence so that in the opinion of the Engineer-in-Charge (which shall be final and binding) he will be unable to secure completion of the work by the date of completion and continues to do so after a notice in writing of seven days from the Engineer-in-Charge.
- iv) If the contractor fails to complete the work within the stipulated date or items of work with individual date of completion, if any stipulated, on or before such date(s) of completion and does not complete them within the period specified in a notice given in writing in that behalf by the Engineer-in-Charge.
- v) If the contractor persistently neglects to carry out his obligations under the contract and/or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge.
- vi) If the contractor commits any acts mentioned in Clause 21 hereof:
- vii) If the work is not started by the contractor within 1/8th of the stipulated time subject to the maximum of 45 days.

When the contractor has made himself liable for action under any of the cases aforesaid, the Engineer-in-Charge on behalf of the Governor of Bihar shall have powers:

- a) To determine or rescind the contract as aforesaid (of which termination or rescission notice in writing to the contractor under the hand of Engineer-in-Charge shall be conclusive evidence). Upon such determination or rescission the Earnest Money Deposit, Security Deposit already recovered and Performance Guarantee under the contract shall be liable to be forfeited and shall be absolutely at the disposal of the Government.
- b) After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof as shall be un-executed out of his hands and to give it to another contractor to complete the work. The contractor, whose contract is determined or rescinded as above, shall not be allowed to participate in the tendering process for the balance work.

In the event of above course(s) being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provision aforesaid the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer-in-Charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.

CLAUSE 3A

In case, the work cannot be started due to reasons not within the control of the contractor as decided by Chief Engineer within 1/4th of the stipulated time for completion of work, either party may close the contract. In such eventuality, the Earnest Money deposit and the Performance Guarantee of the contractor shall be refunded, but no payment on account of interest, loss of profit or damages etc. shall be payable at all. the reasons shall be examined by the Superintending Engineer and his decision shall be final and binding.

CLAUSE 4

Contractor liable In any case in which any of the powers conferred upon the Engineer-in-Charge by Clause- 3 to pay thereof, shall have become exercisable and the same are not exercised the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor and

the liability of the contractor for compensation shall remain unaffected. In the event of the Engineer-in-Charge putting in force all or any of the powers vested in him under the preceding clause he may, if he so desires after giving a notice in writing to the contractor, take possession of (or at the sole discretion of the Engineer-in-Charge which shall be final and binding on the contractor) use as on hire (the amount of the hire money being also in the final determination of the Engineer-in-Charge) all or any tools, plant, materials and stores, in or upon the works, or the site thereof belonging to the contractor, or procured by the contractor and intended to be used for the execution of the work. or any part thereof, paying or allowing for the same in account at the contract rates or, in the case of these not being applicable, at current market rates to be certified by the Engineer-in-Charge, whose certificate thereof shall be final, and binding on the contractor, clerk of the works, foreman or other authorized agent to remove such tools, plant, materials, or stores from the premises (within a time to be specified in such notice) in the event of the contractor failing to comply with any such requisition, the Engineer-in-Charge may remove them at the contractor's expense or sell them by auction or private sale on account of the contractor and his risk in all respects and the certificate of the Engineer-in-Charge as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the contractor.

CLAUSE 5

Time and Extension for Delay

The time allowed for execution of the Works as specified in the Schedule 'F' or the extended for time in accordance with these conditions shall be the essence of the Contract. The execution of the works shall commence from such time period as mentioned in letter of acceptance or

of the works shall commence from such time period as mentioned in letter of acceptance or from the date of handing over of the site whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, Government shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the security deposit absolutely.

As soon as possible after the contract is concluded the Contractor shall submit a Time & Progress Chart for each milestone and get it approved by the Department. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the work. It shall indicate the forecast of the dates of commencement and completion of various trades or sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and Contractor within the limitations of time imposed in the contract documents, and further to ensure good progress during the execution of the work, the contractor shall in all cases in which the time allowed for any work, exceeds one month (save for special jobs for which a separate Programme has been agreed upon) complete the work as per milestone given in schedule 'F'.

If the work(s) be delayed by.

- i) force majeure, or
- ii) Serious loss or damage by fire, or
- iii) Civil commotion, local.
- iv) delay on the part of other contractors or tradesmen engaged by Engineer-in-Charge in executing work not forming part of the Contract, or
- v) Non-availability of stores, which are the responsibility of Government to supply or
- vii) Non-availability or break down of tools and Plant to be supplied or supplied by Government or
- vii) any other cause which, in the absolute discretion of the authority mentioned in Schedule 'F' is beyond the Contractor's control.

then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer-in-Charge but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the works.

Request for the rescheduling of Milestones and extension of time, to be eligible for consideration, shall be made by the contractor in writing within fourteen days of the happening of the hindering event causing delay on the prescribed form. The Contractor may also, if practicable, indicate in such a request the period for which extension is desired.

In any such case the authority mentioned in Schedule 'F' may give a fair and reasonable extension of time and reschedule the milestones for completion of work. Such extension shall be communicated to the Contractor by the Engineer-in-Charge in writing, within 3 months of the date of receipt of such request. Non application by the contractor for extension of time shall not be a bar for giving a fair and reasonable extension by the Engineer-in-Charge and this shall be binding on the contractor.

The basic centerlines, reference points and benchmarks will be fixed by the department. The contractor shall established at his own cost at suitable points, additional reference lines and bench marks as may be necessary and instructed by the engineer-in-charge. The contractor shall remain responsible for the sufficiency and accuracy of all the bench marks and reference lines.

CLAUSE 5A

The Engineer may require the contractor to attend a progress review meeting during execution of work.

The Engineer shall record the minutes of the meeting and provide a copy to the Contractor for compliance. These minutes will be a part of evidence in case of any request for extension of time or impunitive action against the contractor.

CLAUSE 6

Measurement Engineer-in-Charge shall, except as otherwise provided, ascertain and determine of Work Done measurement and the value in accordance with the contract of work done.

All measurement of all items having financial value shall be entered in Measurement Book and/or level field book so that a complete record is obtained of all works perform under the contract.

All measurements and levels shall be taken jointly by the Engineer-in-Charge or his authorized representative and by the contractor or his authorized representative at bast once in a month during the progress of the work and such measurements shall be signed and dated by the Engineer-in-Charge and the contractor or their representatives in token their acceptance. If the contractor objects to any of the measurements recorded, a note shall be made to that effect with reason and signed by both the parties.

If for any reason the contractor or his authorized representative is not available and the work of recording measurements is suspended by the Engineer-in-Charge or his representative, the Engineer-in-Charge and the Department shall not entertain any claim from contractor for any loss or damages on this account. If the contractor or his authorized representative does not remain present at the time of such measurements after the contractor or his authorized representative has been given a notice in writing three (3) days in advance or fails to countersign or to record objection within a week from the date of the measurement, then such measurements recorded in his absence by the Engineer-in-Charge or his representative shall be deemed to be accepted by the Contractor.

The contractor shall, without extra charge, provide all assistance with every appliance labour and other things necessary for measurements and recording levels.

Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of India Standards and if for any item no such standard is available then a mutually agreed method as approved by the department shall be followed.

The contractor shall give not less than seven days notice to the Engineer-in-Charge or his authorized representative in charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimension thereof be taken before the same is covered up or placed beyond the reach of measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-n-Charge or his authorized representative in charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of measurements without such notice having been given or the Engineer-in-Charge's consent being obtained in writing the same shall be uncovered at the contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

Engineer-in-Charge or his authorized representative may cause either themselves or through another officer of the department to check the measurements recorded jointly or otherwise as aforesaid and all provisions stipulated herein above shall be applicable to such checking of measurements or levels.

It is also a term of this contract that recording of measurements of any item of work in the measurement book and/or its payment in the interim, on account or final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement defects noticed till completion of the defects liability period.

CLAUSE 7

Payment on Intermediate Certificate to be Regarded as Advances

No payment shall be made for work for less than the estimated work of Rs. 2.5 Lacs till the whole of the work shall have been completed and certificate of completion given. For works estimated to cost over Rs. 2.5 Lacs the interim or running account bill shall be submitted by the contractor for the work executed on the basis of such recorded measurements on the format of the Department in triplicate on or before the date of every month fixed for the same by the Engineer-in-Charge. The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule "F", in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved. The Engineer-in-Charge shall arrange to have the bill verified by taking or causing to be taken, where necessary, the requisite measurements of the work. In the event of the failure of the contractor to submit the bills, Engineer-in-Charge shall prepare or cause to be prepared such bills in which event no claims whatsoever due to delays on payment including that of interest shall be payable to the contractor. Payment on account of amount admissible shall be made by the Engineer-in-Charge certifying the sum to which the contractor is considered entitled by way of interim payment at such rates as decided by the Engineer-in-Charge. The amount admissible shall be paid by 10th working day after the day of presentation of the bill by the Contractor to the Engineer-in-Charge or his Dy. Project Director together with the account of the material issued by the department, or dismantled materials, if any. In the case of works outside the headquarters of the Engineer-in-Charge the period of ten working days will be extended to fifteen working days.

All such interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer-in-Charge relating to the work done or materials delivered forming part of such payment may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates is/are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in any way powers of the Engineer-in-Charge under the contract or any of such payments be treated as final settlement and adjustment of accounts or in any way vary or affect the contract.

Pending consideration of extension of date of completion interim payments shall continue to be made as herein provided as per clause - 2, without prejudice to the right of the department

to take action under the terms of this contract for delay in the completion of work, if the extension of date of completion is not granted by the competent authority.

CLAUSE 8

Within ten days of the completion of the work, the contractor shall give notice of such Completion completion to the Engineer-in-Charge and within fifteen days of the receipt of such notice the Certificate and Engineer-in-Charge shall inspect the work and if there is no defect in the work shall furnish **Completion Plans** the contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates, shall be issued. But no final certificate of completion shall be issued, nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials, rubbish and all huts and sanitary arrangements required for his/their work people on the site in connection with the execution of the works as shall have been erected or constructed by the contractor(s) and cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of the building, in, upon, or about which the work is to be executed or of which he may have had possession for the purpose of execution thereof, and not until the work shall have been measured by the Engineer-in-Charge. If the contractor shall fail to comply with the requirements of this clause as to removal of scaffolding, surplus materials and rubbish and all huts and sanitary arrangements as aforesaid and cleaning off dirt on or before the date fixed for the completion of work, the Engineer-in-Charge may at the expense of the contractor remove such scaffolding surplus materials and rubbish etc. and dispose of the same as he thinks fit and clean off such dirt as aforesaid, and the contractor shall have no claim in respect of scaffolding or surplus materials as aforesaid except for any sum actually realised by the sale thereof.

CLAUSE 8A

Contractor to Keep Site Clean When the annual repairs and maintenance of works are carried out, the splashes and

droppings from white washing, color washing, painting etc. on walls, floor, windows etc. shall be removed and the surface cleaned simultaneously with the completion of these items of work in the individual rooms, quarters or premises etc. where the work is done without waiting for the actual completion of all the other items of work in the contract. In case the contractor fails to comply with the requirements of this clause, the Engineer-in-Charge shall have the right to get this work done at the cost of the contractor either departmentally or through any other agency. Before taking such action, the Engineer-in-Charge shall give ten days notice in writing to the contractor.

CLAUSE 8 B

Completion Plans to be Submitted by the Contractor by the Contractor

In case, the contractor fails to submit the completion plan as aforesaid, he shall be liable to pay a sum equivalent to 2.5% of the value of the work subject to a ceiling of Rs. 15,000 (Rs. Fifteen thousand only) as may be fixed by the General Manager (Works) concerned and in this respect the decision of the General Manager(Works) shall be final and binding on the contractor.

CLAUSE 9

Payment of Final Bill The final bill shall be submitted by the contractor in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-in-Charge whichever is earlier. No further claims shall be made by the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by Engineer-in-Charge, will, as far as possible be made within the period specified herein under, the period being reckoned from the date of receipt of the bill by the Engineer-inCharge or his authorized Dy. Project Director, complete with account of materials issued by the Department and dismantled materials.

i) If the Tendered value of work is up to Rs. 1 crores : 2 months

ii) If the Tendered value of work exceeds Rs. 1 crores : 4 months

CLAUSE 9 A

Payment of Contractor's Bills to Banks Payments due to the contractor may, if so desired by him, be made to his bank instead of direct to him provided that the contractor furnishes to the Engineer-in-Charge (1) an authorisation in the form of a legally valid document such as a power of attorney conferring authority on the bank to receive payments and (2) his own acceptance of the correctness of the amount made out as being due to him by BUIDCo or his signature on the bill or other claim preferred against BUIDCo before settlement by the Engineer-in-Charge of the account or claim by payment to the bank. While the receipt given by such banks shall constitute a full and sufficient discharge for the payment, the contractor shall wherever possible present his bills duly receipted and discharges through his bankers.

Nothing herein contained shall operate to create in favour of the bank any rights or equities vis-a-vis the Governor of Bihar.

CLAUSE 10

Materials supplied by BUIDCo

Materials which BUIDCo will supply in rare case are shown in schedule 'B' which also stipulates quantum, place of issue and rate(s) to be charged in respect thereof. The contractor shall be bound to procure them from the Engineer-in-Charge.

As soon as the work is awarded, the contractor shall finalise the programme for the completion of work as per clause 5 of this contract and shall give his estimates of materials required on the basis of drawings/or schedule of quantities of the work. The Contractor shall give in writing his requirement to the Engineer-in-Charge which shall be issued to him keeping in view the progress of work as assessed by the Engineer-in-Charge, in accordance with the agreed phased programme of work indicating monthly requirements of various materials. The contractor shall place his indent in writing for issue of such materials at least 7 days in advance of his requirement.

Such materials shall be supplied for the purpose of the contract only and the value of the materials so supplied at the rates specified in the aforesaid schedule shall be set off or deducted, as and when materials are consumed in items of work (including normal wastage) for which payment is being made to the contractor, from any sum then due or which may therefore become due to the contractor under the contract or otherwise or from the security deposit. At the time of submission of bills the contractor shall certify that balance of materials supplied is available at site in original good condition.

The contractor shall submit along with every running bill (on account or interim bill) material wise reconciliation statements supported by complete calculations reconciling total issue, total consumption and certified balance (diameter/section-wise in the case of steel) and resulting variations and reasons therefore. Engineer-in-Charge shall (whose decision shall be final and binding on the contractor) be within his rights to follow the procedure of recovery in clause 42 at any stage of the work if reconciliation is not found to be satisfactory.

The contractor shall bear the cost of getting the material issued, loading, transporting to site, unloading, storing under cover as required, cutting assembling and joining the several parts together as directed by the engineer-in-charge. Notwithstanding anything to the contrary contained in any other clause of the contract and (or the PWD Code) all stores/materials so supplied to the contractor or procured with the assistance of the BUIDCo shall remain the absolute property of BUIDCo and the contractor shall be the trustee of the stores/materials, and the said stores/materials shall not be removed/disposed off from the site of the work on any account and shall be at all times open to inspection by the Engineer-in-Charge or his authorized agent. Any such stores/materials remaining unused shall be returned to the Engineer-in-Charge in as good a condition in which they were originally supplied at a require, but in case it is decided not to take back the stores/materials the contractor shall have no

claim for compensation on any account of such stores/materials so supplied to him as aforesaid and not used by him or for any wastage in or damage to in such stores/materials.

On being required to return the stores/materials, the contractor shall hand over the stores/materials on being paid or credited such price as the Engineer-in-Charge shall determine, having due regard to the condition of the stores/materials. The price allowed for credit to the contractor, however, shall be at the prevailing market rate not exceeding the amount charged to him, excluding the storage charge, if any. The decision of the Engineer-in-Charge shall be final and conclusive. In the event of breach of the aforesaid condition, the contractor shall in addition to the throwing himself open to account for contravention of the terms of the licenses or permit and/or for criminal breach of trust, be liable to Government for all advantages or profits resulting or which in the usual course would have resulted to him by reason or such breach. Provided that the contractor shall in no case be entitled to any compensation or damages on account of any delay in supply or non-supply thereof all or any such materials and stores provided further that the contractor shall be bound to execute the entire work if the materials are supplied by the Government within the original scheduled time for completion of the work plus 50% thereof or schedule time plus 6 months whichever is more if the time of completion of work exceeds 12 months but if a part of the materials only has been supplied within the aforesaid period then the contractor shall be bound to do so much of the work as may be possible with the materials and stores supplied in the aforesaid period. For the completion of the rest of the work, the contractor shall be entitled to such extension of time as may be determined by the Engineer-in-Charge whose decision in this regard shall be final and binding on the contractor.

The contractor shall see that only the required quantities of materials are got issued. Any such material remaining unused and in perfectly good/original condition at the time of completion or determination of the contract shall be returned to the Engineer-in-Charge at the stores from which it was issued or at a place directed by him by a notice in writing. The contractor shall not be entitled for loading, transporting, unloading and stacking of such unused material except for the extra lead, if any involved, beyond the original place of issue. Quantities issued in excess of requirement with respect to work done and not returned back to the department, recovery will be made of double of issue rate.

CLAUSE 10 A

Materials to be provided by the Contractor The contractor shall, at his own expense, provide all materials, required for the works other than those, which are stipulated, to be supplied by the BUIDCo.

The contractor shall, at his own expense and without delay, supply to the Engineer-in-Charge samples of materials to be used on the work and shall get these approved in advance. All such materials to be provided by the Contractor shall be in conformity with the specifications laid down or referred to in the contract. The contractor shall, if requested by the Engineer-in-Charge furnish proof, to the satisfaction of the Engineer-in-Charge that the materials so comply. The Engineer-in-Charge shall within fifteen days of supply of samples or within such further period as he may require intimate to the Contractor in writing whether sample are approved by him or not. If samples are not approved, the Contractor shall forthwith arrange to supply to the Engineer-in-Charge for his approval fresh samples complying with the specifications laid down in the contract. When materials are required to be tested in accordance with specifications, approval of the Engineer-in-Charge shall be issued after the test results are received.

The Contractor shall at his risk and cost submit the samples of materials to be tested or analysed and shall not make use of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and materials finally accepted by the Engineer-in-Charge. The Contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of materials.

The contractor shall, at his risk and cost, make all arrangements and shall provide all facilities as the Engineer-in-Charge may require for collecting, and preparing the required number of samples for such tests at such time and to such place or places as may be directed by the

Engineer-in-Charge and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications. The Engineer-in-Charge or his authorized representative shall at all time have access to the works and to all workshops and places where work is being prepared or 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.

The Engineer-in-Charge shall have full powers to require the removal from the premises of all materials which in his opinion are not in accordance with the specifications and in case of default the Engineer-in-Charge shall be at liberty to employ at the expense of the contractor, other persons to remove the same without being answerable or accountable for any loss for damage that may happen or arise to such materials. The Engineer-in-Charge shall also have full powers to require other proper materials to be substituted thereof and in case of default the Engineer-in-Charge may cause the same to be supplied and all costs which may attend such removal and substitution shall borne by the Contractor.

CLAUSE 10 B

i) Secured Advance on Non-perishable Materials The contractor, on signing an indenture in the form to be specified by the Engineer-in-Charge, shall be entitled to be paid during the progress of the execution of the work up to 75% of the assessed value of any materials which are in the opinion of the General Manager (Works) nonperishable, non-fragile and noncombustible and are in accordance with the contract and on the site in connection therewith and are adequately stored and/or protected against damage by weather or other causes but which have not at the time of advance been incorporated in the works. When materials on account of which advance has been made under this sub-clause are incorporated in the work the amount of such advance shall be recovered/deducted from the next payment made under any or the clause or clauses of this contract.

ii) Mobilization advance not exceeding 10% of the tendered value may be given, if requested by the contractor in writing within one month of the order to commence the work. In such a case the contractor shall execute a Bank Guarantee/ Bond from a Scheduled Nationalised Bank as specified by the Engineer-in-Charge for the full amount of such advance before it is released. Such advance shall be in two or more installments to be determined by the Engineer-In-charge at his absolute discretion. The first installment of such advance before shall be released by the Engineer-in-Charge to the contractor on a request made by the contractor to the Engineer-in-Charge in this behalf. The second and subsequent installment shall be released by the Engineer-in-Charge only after the contractor furnishes a proof of the satisfactory utilisation of the earlier installment to the entire satisfaction of the Engineer-In-Charge.

iii) An advance for plant machinery required for the work and brought to site by the Contractor Plant & may be given if requested by the contractor in writing within one month of bringing such plant Machinery & and machinery to site. Such advance shall be given on such plant and machinery which in the Shuttering Material opinion of the Engineer-in-Charge will add to the expeditious execution of work and improve Advance the quality of work. The amount of advance shall be restricted to 5% of the tender value. In the case of new plant and equipment to be purchased for the work the advance shall be restricted to 85% of the price of such new plant and equipment paid by the contractor for which the contractor shall produce evidence satisfactory to the Engineer-in-Charge and approval from Engineer-in-Charge. In the case of second hand and used plants and equipment, the amount of such advance shall be limited to 50% of the depreciated value of plant and equipment as may be decided by the Engineer-in-Charge. The contractor shall, if so required by the Engineer-in-Charge, submit the statement value of such old plant and equipment duly approved by a Registered Value recognized by the Central Board of Direct Taxes under the Income-Tax Act, 1961. No such advance shall be paid on any plant and equipment of perishable nature and on the plant and equipment of a value less than Rs. 50,000/- Seventy five percent of such amount of advance shall be paid after the plant & equipment is brought to site and balance twenty five percent on successfully commissioning the same only after approval from Engineer-in-Charge.

Leasing of equipment shall be considered at par with purchase of equipment and shall be covered by tripartite agreement with the following:

- 1. Leasing company which gives certificate of agreeing to lease equipment to the contractor.
- 2. Engineer in Charge, and
- 3. The contractor.

This advance shall further be subject to the condition that such plant and equipment (a) are considered by the Engineer-in-Charge to be necessary for the works; (b) and are in and are maintained in working order; (c) hypothecated to the BUIDCo as specified by the Engineer-in-Charge before the payment of advance is released. The contractor shall not be permitted to remove from the site such hypothecated plant and equipment without the prior written permission of the Engineer-in-Charge. The contractor shall be responsible for maintaining such plant and equipment in good working order during the entire period of hypothecation falling which such advance shall be entirely recovered in lump sum. For this purpose steel scaffolding and from work shall be treated as plant and equipment.

The contractor shall insure the Plant and Machinery for which mobilization advance is sought and given, for a sum sufficient to provide for their replacement at site. Any amounts not recovered from the insurer will be borne by the contractor.

- iv) The mobilization advance and plant and machinery advance in (ii)&(iii) above bear simple interest and should be equal to the prevailing rate of interest charged by the bank as mentioned in contract date schedule "F' and shall be calculated from the date of payment to the date of recovery, both days inclusive, on the outstanding amount of advance. Recovery of such sums advanced shall be made by the deduction from the contractor's bills commencing after first ten per cent of the gross value of the work is executed and paid, on pro-rata percentage basis to the gross value of the work billed beyond 10% in such a way that the entire advance is recovered by the time eighty per cent of the gross value of the contract is executed and paid, together with interest due on the entire outstanding amount up to the date of the installment.
 - v) If the circumstances are considered reasonable by the Engineer-in-Charge, the period mentioned in (ii) and (iii) for request by the contractor in writing for grant of mobilization advance and plant and equipment advance may be extended in the discretion of the Chief General Manager.
 - vi) The said bank guarantee for advances shall initially be made for the full amount and valid for the contract period, and be kept renewed from time to time to cover the balance amount and likely period of complete recovery together with interest.
 - vii) Any materials including tools plants equipmentsetc brought to the site shall not be removed from the sites without the written permission of the Engineer-in-charge.

CLAUSE 10 C

Payment on Account of Increase in Prices/Wages due to Statutory Order(s)

If after submission of the tender the price of any material incorporated in the works (not being a material supplied from the Engineer-in-Charge's stores in accordance with clause 10 thereof) and/or wages of labour increases as a direct result of the coming into force of any fresh law, or statutory rule or order (but not due to any changes in sales tax) and such increase in the price and/or wages prevailing at the time of the last stipulated date for receipt of the tenders including extensions if any for the work, and the contractor thereupon necessarily and properly pays in respect of that material (incorporated in the works) such increased price and/or in respect of labour engaged on the execution of the work such increased wages, then the amount of the contract shall accordingly be varied and provided further that any such increase shall not be payable if such increase has become operative after the stipulated date of completion of the work in question.

If after submission of the tender, the price of any material incorporated in the works (not being a material supplied from the Engineer-in-Charge's stores in accordance with clause 10

thereof) and/or wages of labour is decreased as a direct result of the coming not force of any law or statutory rules or order (but not due to any changes in sales tax) and such decrease in the prices and/ or wages prevailing at the time of receipt of the tender for the work. The government shall in respect of materials incorporated in the works (not being materials supplied from the Engineer-in-Charge's stores in accordance with Clause-10 hereof) and/or labor engaged on the execution of the work after the date of coming into force of such law statutory rule or order be entitled to deduct from the dues of the contractor such amount as shall be equivalent to the difference between the prices of the materials and/or wages as prevailed at the time of the last stipulated date for receipt of tenders including extensions if any for the work and the price of materials and/or wages of labour on the coming into force of such law, statutory rule or order.

The contractor shall, for purpose of this condition, keep such books of account and other documents as are necessary to show the amount of any increase claimed or reduction available and shall allow inspection of the same by a duly authorised representative of BUIDCo, and further shall, at the request of the Engineer-in-Charge may require any documents so kept and such other information as the Engineer-in-Charge may require.

The contractor shall, within a reasonable time of his becoming aware of any alteration in the price of any such material and/or wages of labour, give notice thereof to the Engineer-in-Charge stating that the same is given pursuant to this condition together with all information relating thereto which he may be in position to supply.

CLAUSE 10 CA

Payment on Account of Increase/decre ase in Prices of construction materials after receipt of tender.

If after submission of the tender, the price of cement or steel reinforcement bars / bitumen incorporated in the works (not being a material supplied from the Engineer-in-Charge's stores in accordance with Clause 10 thereof) increase(s) beyond the price(s) prevailing at the time of the last stipulated date for receipt of tenders (including extensions, if any) for the work, then the amount of the contract shall accordingly be varied and provided further that any such increase shall not be payable if such increase has become operative after the stipulated date of completion of work in question.

If after submission of the tender, the prices of cement and/or steel reinforcement bars / bitumen incorporated in the works (not being a material stipulated from the Engineer-in-Charge's stores in accordance with the Clause 10 thereof) is decreased, Government shall in respect of these materials incorporated in the works (not being materials supplied from the Engineer-in-Charge's stores in accordance with Clause 10 thereof) be entitled to deduct from the dues of the contractor such amount as shall be equivalent to the difference between the prices of Cement and/or Steel reinforcement bars/ bitumen as prevailed at the time of last stipulated date for receipt of tenders including extensions if any for the work and the prices of these materials on the coming into force of such base price of cement and/or steel reinforcement bars/ bitumen as prevailed at the time of these materials on the coming into force of such base price of cement and/or steel reinforcement bars/ bitumen issued under authority of Schedule of Rate Committee.

The increase/decrease in prices shall be determined by the All India Wholesale Price Indices for Cement and Steel (bars and rods) as published by Economic Advisor to Government of India, Ministry of Commerce and Industry and base price for cement and/or steel reinforcement bars / bitumen as issued under authority of Schedule of Rate Committee as valid on the last stipulated date of receipt of tender, including extension if any and for the period under consideration.

The amount of the contract shall accordingly be varied for cement or steel reinforcement bars / bitumen and will be worked out as per the formula given below:-

Adjustment for cement component

(i) Price adjustment for increase or decrease in the cost of cement procured by the contractor shall be paid in accordance with the following formula:

 $V_0 = 0.85 \text{ x P}_c / 100 \text{ x R x } (C_1 - C_0) / C_0$

V₀ = increase or decrease in the cost of work during the month under consideration due to changes in rates for cement.

R = Value of the work.

- C_0 = The all India wholesale price index for cement on 28 days preceding the date of opening of Bids as published by the Ministry of Industrial Development, Government of India. New Delhi.
- C_1 = The all India average wholesale price index for cement for the month under consideration as published by Ministry of Industrial Development, Government of India. New Delhi.
- P_c = Percentage of cement component of the work.

Adjustment for Steel component

Price adjustment for increase or decrease in the cost of steel procured by the (ii) Contractor shall be paid in accordance with the following formula:

 $V_s = 0.85 \text{ x P}_s / 100 \text{ x R x } (S_1 - S_0) / S_0$

- V_s = Increase or decrease in the cost of work during the month under consideration due to changes in the rates for steel.
- S_0 = The all India wholesale price index for steel (Bars and Rods) on 25 days preceding the date of opening of Bids as published by the Ministry o Industrial Development, Government of India New Delhi.
- S_1 = The all India average wholesale price index for steel (Bars and Rods) for the month under consideration as published by Ministry of Industrial Development, New Delhi.
- P_s = Percentage of Steel component of the work.
- Note : For the application of this clause, index of Bars and Rods has been chosen to represent steel group.

Adjustment of bitumen component

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

 $V_b = 0.85 \text{ x P}_b / 100 \text{ x R x } (B_1 - B_0) / B_0$

- V_{b} = Increase or decrease in the cost of work during the month under consideration due to changes in rates for bitumen.
- $B_0 =$ The office retail price of bitumen at the IOC depot at nearest center on the day 28 days prior to date of opening of Bids.
- The official retail price of bitumen of IOC depot at nearest center for the 15th B₁ = day of the month under consideration.
- $P_{\rm b} =$ Percentage of bitumen component of the work.

CLAUSE 10 CC

tender (Time of

Contract price shall be adjusted for increase or decrease in rates and price of labour, Payment due to increase / Decrease materials, fuels and lubricants in accordance with the following principles and procedures in Prices / Wages and as per formula given in the contract data : after receipt of

- The price adjustment shall apply for the work done from the start date given in the (a) contract data upto end of the initial intended completion date or extensions granted completion more by the Engineer and shall not apply to the work carried out beyond the stipulated than 18 months) time for reasons attributable to the contractor.
 - Following expressions and meanings are assigned to the work done during each (b) month:
 - R = Total value of work done during the month. It would include the amount of secured advance granted, if any, during the month, less the amount of secured advance recovered, if any during the month. It will exclude value for

works executed under variations for which price adjustment will be worked separately based on the terms mutually agreed.

(c) To the extent that full compensation for any rise or fall in costs to the

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

The formula (e) for adjustment of prices are:

Adjustment for labour component

(i) Price adjustment for increase or decrease in the cost due to labour shall be paid in accordance with the following formula:

 $V_L = 0.85 \text{ x P}_1/100 \text{ x R x } (L_1 - L_0)/L_0$

- V_L = increase or decrease in the cost of work during the month under consideration due to changes in rates for local labour.
- L₀ = the consumer price index for industrial workers for the State on 28 days preceding the date of opening of Bids as published by Labour Bureau, Ministry of Labour, Government of India.
- L₁ = The consumer price index for industrial workers for the State for the under consideration as published by Labour Bureau, Ministry of Labour, Government of India.
- P_1 = Percentage of labour component of the work.

Adjustment for cement component

(ii) Price adjustment for increase or decrease in the cost of cement procured by the contractor shall be paid in accordance with the following formula:

 $V_0 = 0.85 \times P_0 / 100 \times R \times (C_1 - C_0) / C_0$

- V₀ = increase or decrease in the cost of work during the month under consideration due to changes in rates for cement.
- C₀ = The all India wholesale price index for cement on 28 days preceding the date of opening of Bids as published by the Ministry of Industrial Development, Government of India, New Delhi.
- C₁ = The all India average wholesale price index for cement for the month under consideration as published by Ministry of Industrial Development, Government of India, New Delhi.

 P_c = Percentage of cement component of the work.

Adjustment for Steel component

(iii) Price adjustment for increase or decrease in the cost of steel procured by the Contractor shall be paid in accordance with the following formula:

 $V_s = 0.85 \text{ x P}_s/100 \text{ x R x } (S_1-S_0)/S_0$

- V_s = Increase or decrease in the cost of work during the month under consideration due to changes in the rates for steel.
- S₀ = The all India wholesale price index for steel (Bars and Rods) on 25 days preceding the date of opening of Bids as published by the Ministry o Industrial Development, Government of India New Delhi.
- S₁ = The all India average wholesale price index for steel (Bars and Rods) for the month under consideration as published by Ministry of Industrial Development, New Delhi.

 P_1 = Percentage of labour component of the work.

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

Adjustment of bitumen component

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

 $V_{b} = 0.85 \text{ x P}_{b}/100 \text{ x R x } (B_{1}-B_{0})/B_{0}$

- V_b = Increase or decrease in the cost of work during the month under consideration due to changes in rates for bitumen.
- B₀ = The office retail price of bitumen at the IOC depot at nearest center on the day 28 days prior to date of opening of Bids.
- B₁ = The official retail price of bitumen of IOC depot at nearest center for the 15th day of the month under consideration.
- P_1 = Percentage of bitumen component of the work.

Adjustment of POL (fuel and lubricant) component

(v) Price adjustment for increase or decrease in the cost of POL (fuel and lubricant) shall be paid in accordance with the following formula.

$$V_f = 0.85 \times P_f / 100 \times R \times (F_1 - F_0) / F_0$$

- V_f = Increase or decrease in the cost of work during the month under consideration due to changes in rates for fuel and lubricants.
- F₀ = The official retail price of High Speed Diesel (HSD) at the existing consumer pumps of IOC at nearest center on the day 28 days prior to the date of opening of Bids.
- F_1 = The official retail price of HSD at the existing consumer pumps of IOC at nearest center for the 15th day of month of the under consideration.
- P_1 = Percentage of fuel and lubricants component of the work.
- Note : For the application of this clause, the price of High Speed Diesel oil has been chosen to represent fuel and lubricants group.

Adjustment for Plant and Machinery Spares component

(vi) Price adjustment for increase or decrease in the cost of plant and machinery spares procured by the Contractor shall be paid in accordance with the following formula :

 $V_p = 0.85 \text{ x } P_p / 100 \text{ x } R \text{ x } (P_1 - P_0) / P_0$

- V_p = Increase or decrease in the cost of work during the month under consideration due to changes in rates for plant and machinery spares.
- P₀ = The all India wholesale price index for heavy machinery and parts on 28 days preceding the date of opening of Bids as published by the Ministry of Industrial Development Government of India, New Delhi.
- P₁ = The all India average wholesale price index for heavy machinery and parts for the month under consideration as published by Ministry of Industrial Development, Government of India, New Delhi.
- P_1 = Percentage of plant and machinery spares component of the work.
- Note : For the application of this clause, index of Heavy Machinery and Parts has been chosen to represent the Plant and Machinery Spares group.

Adjustment of other materials component

(vii) Price adjustment for increase or decrease in cost of local materials other than cement, steel, bitumen and POL procured by the contractor shall be paid in accordance with the following formula:

 $V_m = 0.85 \text{ x P}_m / 100 \text{ x R x } (M_1 - M_0) / M_0$

- V_m = Increase or decrease in the cost of work during the month under consideration due to changes in rates for local materials other than cement, steel, bitumen and POL.
- M₀ = The all India wholesale price index (all commodities) on 28 days preceding the date of opening of Bids, as published by the Ministry of Industrial Development, Government of India, New Delhi.
- M₁ = The all India wholesale price index (all commodities) for the month under consideration as published by Ministry of Industrial Development, Government of India, New Delhi.
- P₁ = Percentage of local material component (other than cement, steel, bitumen and POL) of the work.

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

1.	Labour - P ₁	25 %	
2.	Cement – P _c	5 %	
3.	Steel – Ps	5 %	
4.	Bitumen – P _b	10 %	Not
5.	POL – P _f	5 %	Applicable
6.	Plant & Machinery Spares – Pp	5 %	
7.	Other materials – P _m	45 %	_
	Total	100%	

(viii) In contract where clause 10CA is applicable, this clause 10CC will not be applicable and in contract where this clause 10CC is applicable previous clause 10CA will not be applicable.

CLAUSE 10 D

Dismantled
Material Govt.The contractor shall treat all materials obtained during dismantling of a structure, excavation
of the site for a work, etc. as Government's property and such materials shall be disposed off
to the best advantage of Government according to the PWD codal provision.

CLAUSE 11

Work to be Executed in Accordance with Specifications, Drawings, Orders etc. The contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall also conform exactly, fully and

faithfully to the design, drawings and instructions in writing in respect of the work signed by the Engineer-in-Charge and the contractor shall be furnished free of charge one copy of the contract documents together with specification, designs, drawings and instruction as are not included in the standard specifications of Public Works Department specified in Schedule 'F' or in any Bureau of Indian Standard or any other, published standard or code or, Schedule of Rates or any other printed publication referred to elsewhere in the contract.

The contractor shall comply with the provisions of the contract and with the care and diligence execute and maintain the works and provide all labour and materials, tools and plants including for measurements and supervision of all works, structural plans and other things of temporary or permanent nature required for such execution and maintenance in so far as the necessity for providing these, is specified or is reasonably inferred from the contract. The Contractor shall take full responsibility for adequacy, suitability and safety of all the works and methods of construction.

CLAUSE 12

Deviations/ Variations Extent and Pricing The Engineer-in-Charge (As per codal provision) shall have power (i) to make alternation in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-Charge after approval from competent authority and such alterations omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.

The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered be extended, if requested by the contractor, as follows:

- i) In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus.
- ii) 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer-in-Charge after approval from competent authority

Deviation, Extra items and **Pricing** In the case of extra item(s) the contractor may within fifteen days of receipt of order or occurrence of the item(s) claim rates, supported by proper analysis, for the work and the Engineer-in-Charge after approval from competent authority shall within one month of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates as per power delegated in PWD Code and on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.

In the case of substituted items, the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the aforesaid para.

- Substituted Items, Pricing (a) If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted) the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).
 - (b) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted) the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).

Deviation, Deviated Quantities, Pricing

Deviation.

In the case of contract items, substituted items, contract cum substituted items, which exceed the limits laid down in Schedule F, the contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis, for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities the Engineer-in-Charge shall within one month of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates as per power delegated in PWD Code and on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.

The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of the limits laid down in Schedule 'F' and the Engineer-in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of receipt of the notice, revise the rates as per power delegated in PWD Code for the work in question within one month of expiry of the said period of fifteen days having regard to the market rates or current schedule of rate.

The contractor shall send to the Engineer-in-Charge once every three months an up to date account giving complete details of all claims for additional payments to which the contractor

may consider himself entitled and of all additional work ordered by the Engineer-in-Charge after approval from competent authority which he has executed during the preceding quarter failing which the contractor shall be deemed to have waived his right. However, the General Manager (Works) is authorized for consideration of such claims on merits.

For the purpose of operation of Schedule 'F' the following works shall be treated as works relating to foundation :

- i) For buildings, compound walls plinth level or 1.2 meters (4 feet) above ground level whichever is lower excluding items of flooring and D.P.C. but including base concrete below the floors.
- ii) For abutments, piers, retaining walls of culverts and bridges, walls of water reservoirs the bed of floor level.
- iii) For retaining walls where floor level is not determinate 1.2 meters above the average ground level or bed level.
- iv) For Roads all items of excavation and filling including treatment of sub-base.

Any operation incidental to or necessary has to be in contemplation of tenderer while filing tender, or necessary for proper execution of the item included in the Schedule of quantities or in the schedule of rates mentioned above, whether or not, specifically indicated in the description of the item and the relevant specifications, shall be deemed to be included in the rates quoted by the tenderer or the rate given in the said schedule of rates, as the case may be. Nothing extra shall be admissible for such operations.

CLAUSE 13

Foreclosure of Contract due to Abandonment or Reduction in Scope of Work

If at any time after acceptance of the tender Government shall decide to abandon or reduce the scope of the works for any reason whatsoever and hence not require the whole or any part of the works to be carried out, the Engineer-in-Charge shall give notice in writing to that effect to the contractor and the contractor shall act accordingly in the matter. The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works.

The contractor shall be paid at contract rates for works executed at site only.

CLAUSE 14

If the contractor :

Cancellation of contract in full or i) part

- or i) at any time makes default in proceeding with the works or any part of the work with due diligence and continues to do so after a notice in writing of 7 days from the Engineer-in-Charge; or
 - ii) Commits default to comply with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge; or
 - iii) Fails to complete the works or items of work with individual dates of completion, on or before the date(s) of completion, and does not complete them within the period specified in a notice given in writing in that behalf by the Engineer-in-Charge; or
 - iv) Shall offer or give or agree to give to any person in Government service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract for Government; or
 - v) Shall enter into a contract with Government/ BUIDCo in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Accepting Authority/Engineer-in-Charge; or

- vi) Shall obtain a contract with Government / BUIDCo as a result of wrong tendering or other non-bonafide methods of competitive tendering; or
- vii) Being an individual, or if a firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors; or
- viii) Being a company, shall pass a resolution or the Court shall make an order for the winding up of the company, or a receiver or manager on behalf of the debenture holders or otherwise shall be appointed or circumstances shall arise which entitle the Court or debenture holders to appoint a receiver or manager; or
- ix) Shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days; or
- Assigns, transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Competent Authority;

The Competent Authority may, without prejudice to any other right or remedy which shall have accrued or shall accrue hereafter to Government, by a notice in writing to cancel the contract as a whole or only such items of work in default from the Contract.

The Engineer-in-Charge shall on such cancellation by the Competent Authority have powers to :

- (a) Take possession of the site and any materials, constructional plant, implements stores, etc., thereon; and/or
- (b) Carry out the incomplete work by any means at the risk and cost of the contractor.

On cancellation of the contract in full or in part, the Engineer-in-Charge shall determine what amount, if any, is recoverable from the contractor for completion of the works or part of the works or in case the works or part of the works is not to be completed, the loss of damage suffered by Government. In determining the amount, credit shall be given to the contractor for the value of the work executed by him up to the time of cancellation, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor.

Any excess expenditure incurred or to be incurred by BUIDCo in completing the works or part of the works or the excess loss or damages suffered or which may be suffered by BUIDCoas aforesaid after allowing such credit shall without prejudice to any other right or remedy available to BUIDCoin law be recovered from any moneys due to the contractor on any account, and if such moneys are not sufficient the contractor shall be called upon in writing and shall be liable to pay the same within 31 days.

If the contractor fails to pay the required sum within the aforesaid period of 30 days the Engineer-in-Charge shall have the right to sell any or all of the contractors unused materials, constructional plant, implements, temporary buildings, etc. and apply the proceeds of sale thereof towards the satisfaction of any sums due from the contractor under the contract and if thereafter there be any balance is outstanding from the contractor, it shall be recovered in accordance with the provisions of the contract.

Any sums in excess of the amounts due to BUIDCo and unsold materials, constructional plant, etc., shall be returned to the contractor, provided always that if cost or anticipated cost of completion by BUIDCo of the works or part of the works is less than the amount which the

contractor would have been paid had he completed the works or part of the works, such benefit shall not accrue to the contractor.

CLAUSE 15

Suspension of Work

i) The contractor shall, on receipt of the order in writing of the Engineer-in-Charge (whose decision shall be final and binding on the contractor) suspend the progress of the works or any part thereof for such time and in such manner as the Engineer-in-Charge may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof, for any of the following reasons :

- a) on account of any default on the part of the contractor or;
- b) for proper execution of the works or part thereof for reasons other than the default of the contractor; or
- c) for safety of the works or part thereof.

The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer-in-Charge.

ii) If the suspension is ordered for reasons (b) and (c) in sub-para (i) above, the contractor shall be entitled to an extension of time equal to the period of every such suspension PLUS 25%, for completion of the item or group of items of work for which a separate period of completion is specified in the contract and of which the suspended work forms a part, and;

CLAUSE 16

Action in case Work not done as per Specifications

All works under or in course of execution or executed in pursuance of the contract shall at all times be open and accessible to the inspection and supervision of the Engineer-in-Charge, his authorized subordinates in charge of the work and all the superior officers, officer of the Quality Control Organization of the Department and of the Cabinet (Technical) Vigilance, and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to receive orders and instructions of have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself.

If it shall appear to the Engineer-in-Charge or his higher authority or his authorised subordinates in charge of the work or to the Cabinet (Technical) Vigilance or his subordinate officers, that any work has been executed with unsound, imperfect, or unskillful workmanship, or with materials or article provides by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract the contractor shall, on demand in writing which shall be made within the period specified in schedule – F of contract data from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the contractor failing do so within a period specified by the Engineer-in-Charge in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as under clause 2 of the contract (for non-completion of the work in time) for this default.

In such case the Engineer-in-Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the competent authority may consider reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure and incidental items rectified, or removed and re-executed at the risk and cost or contractor. Decision of the Engineer-in-Charge to be conveyed in writing in respect of the same will be final and binding on the contractor.

CLAUSE 17

Contractor Liable for Damages, defects during maintenance period If the contractor or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road curb, fence,

enclosure, water pipe, cables, drains, electric or telephone post or wired, trees, grass or grassland, or cultivated ground contiguous to the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever or if any defect, shrinkage or other faults appear in the work within defect liability period after a certificate final or otherwise of its completion shall have been given by the Engineer-in-Charge as aforesaid arising out of defect or improper materials or workmanship the contractor shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineer-in-Charge cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the contractor, or from his security deposit except for the portion pertaining to asphaltic work which is governed by sub-para (iii) of clause 35 or the proceeds of sale thereof or of a sufficient option thereof. The security deposit of the contractor shall not be refunded before the expiry of defected liability period after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later.

In case of Maintenance and Operation works of Electrical & Mechanical services, the security deposit deducted from contractors shall be refunded within one month from the date of final payment or within one month from the date of completion of the maintenance contract which ever is earlier.

CLAUSE 18

Contractor to The contractor shall provide at his own cost all materials (except such special materials, if Supply Tools & any, as may in accordance with the contract be supplied from the Engineer-in-Charge's Plants etc. stores), plant, tools, appliances, implements, ladders, cordage, tackle, scaffolding and temporary works required for the proper execution of the work, whether original, altered or substituted and whether included in the specification or other document forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-Charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials, necessary for the purpose of setting out works, and counting, weighing and assisting the measurement for examination at any time and from time to time of the work or materials. Failing his so doing the same may be provided by the Engineer-in-Charge at cost to the contractor, under this contract or otherwise and/or from his security deposit or the proceeds of sale thereof, or of a sufficient portions thereof.

CLAUSE 18 A

Recovery of Compensation Norkman workman amplayed by the contractor in execution of the works. Covernment will recover the works of the works

paid to Workman workman employed by the contractor, in execution of the works, Government will recover from the contractor the amount of the compensation so paid; and without prejudice to the right of the Government under sub-section (2) of section 12, of the said Act, Government shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by Government / BUIDCo to the contractor whether under this contract or otherwise. Government / BUIDCo shall not be bound to contest any claim made against it under sub-section (1) Section 12, of the said Act, except on the written request of the contractor and upon his giving to Government / BUIDCo full security for all costs for which Government / BUIDCo might become liable in consequence of contesting such claim.

CLUASE 18 B

Ensuring Payment In every case in which by virtue of the provisions of the Contract Labour (Regulation and and Amenities to Abolition) Act. 1970, and of the Contract Labour (Regulation and Abolition) Central Rules. Workers if 1971, BUIDCo is obliged to pay any amounts of wages to a workman employed by the Contractor fails contractor in execution of the works, or to incur any expenditure in providing welfare and health amenities required to be provided under the above said Act and the rules under Clause 19H or under the P.W.D. Contractor's Labour Regulations, or under the Rules framed by Government from time to time for the protection of health and sanitary arrangements for workers employed by P.W.D. Contractors, BUIDCo will recover from the contractor the amount of wages so paid or the amount of expenditure so incurred; and without prejudice to the rights of the BUIDCo under sub-section (2) of Section 20, and sub-section (4) of Section 21. of the Contract Labour (Regulation and Abolition) Act. 1970. BIUIDCo shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by Government/BUIDCo to the contractor whether under this contract or otherwise BUIDCo shall not be bound to contest any claim made against it under sub-section (1) of Section 20, sub-section (4) of Section 21, of the said Act, except on the written request of the contractor and upon his giving to the BUIDCo full security for all costs for which Government/BUIDCo might become liable in contesting such claim.

CLAUSE 19

Labour Laws to The contractor shall obtain a valid license under the State Labour Act, and the Contract be complied by Labour (Regulation and Abolition) Central rules 1971, before the commencement of the work, the Contractor and continue to have a valid license until the completion of the work. The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) ACt, 1986.

> The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) ACt, 1996 and the building and other Construction Workers Welfare Cess Act, 1996.

> Any failure to fulfill these requirements shall attract the penal provisions of the contract arising out of the resultant non-execution of the work.

The bidder should registered in EPF.

The bidder should submit the Project Insurance and professional liability insurance documents after award of the contract.

CLAUSE 19 A

No labour below the prescribed age shall be employed on the work.

CLAUSE 19 B

Payment of

- Wages

Payment of wages :

- i) The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.
- The contractor shall, notwithstanding the provisions of any contract to the contrary, ii) cause to be paid fair wage to labour indirectly engaged on the work including any labour engaged by his sub-contractors in connection with the said work, as if the labour had been immediately employed by him.
- In respect of all labour directly or indirectly employed in the works for performance iii) of the contractor's part of this contract, the contractor shall comply with or cause to be complied with the Public Works Department contractor's Labour Regulations made by Government from time to time in regard to payment of wages, wage period, deductions from wages recovery of wages not paid and deductions unauthorisedly made, maintenance of wage books or wage slips, publication of scale of wages and other terms of employment, inspection and submission of

periodical returns and all other matters of the like nature or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation And Abolition) Central Rules, 1971, wherever applicable.

- iv) a) The Engineer-in-Charge concerned shall have the right to deduct from the moneys due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of nonfulfilment of the conditions of the contract for the benefit of the workers, non-payment of wages or of deductions made from his or their wages which are not justified by their terms of the contract or non-observance of the Regulations.
 - b) Under the provision of Minimum Wages (Central) Rules 1950, the contractor is bound to allow to the labours directly or indirectly employed in the works one day rest for 6 days continuous work and pay wages at same rate as for duty. In the event of default the Engineer-in-Charge shall have the right to deduct the sum or sums not paid on account of wages for weekly holidays to any labours and pay the same to the persons entitled thereto from any money due to the contractor by the Engineer-in-Charge concerned.
- v) The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Act, 1970, or the modifications thereof or any other laws relating thereto and the rules made hereunder from time to time.
- vi) The contractor shall indemnify and keep indemnified BUUIDCo against payments to be made under and for the observance of the laws aforesaid and the P.W.D. Contractor's Labour Regulations without prejudice to his right to claim indemnity from his sub-contractors.
- vii) The laws aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.
- viii) Whatever is the minimum wage for the time being, or if the wage payable higher than such wage, such wage shall be paid by the contractor to the workmen directly without the intervention of Jamadar and that Jamadar shall not be entitled to deduct or recover any amount from the minimum wage payable to the workmen as and by way of commission or otherwise.
- ix) The contractor shall ensure that no amount by way of commission or otherwise is deducted or recovered by the Jamadar from the wage of workmen.

CLAUSE 19 C

In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own expense arrange for the safety provisions as per P.W.D. Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails to make arrangement and provide necessary facilities as aforesaid he shall be liable to pay a penalty of Rs. 200/- for each default and in addition the Engineer-in-Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.

CLAUSE 20

Minimum The contractor shall at least pay and comply with all the provisions of the Minimum wages Act to s and rules framed there under other labour laws related to contract labour .

CLAUSE 21

with.

Work not to be sublet. Action in case of insolvency The contract shall not be assigned or sublet without the written approval of the Engineer-in-Charge. And if the contractor shall assign or sublet his contract, or attempt to do so, or 67 become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so, or if any bribe, gratuity, gift, loan, perguisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, be given, promised or offered by the contractor, or any of his servants or agent to any public officer or person in the employment of BUIDCo in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Engineer-in-Charge on behalf of the Governor of Bihar shall have power to adopt the courses specified in Clause 3 hereof in the interest of BUIDCo and in the event of such course being adopted the consequences specified in the said Clause 3 shall ensue.

CLAUSE 22 Compensation

All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of BUIDCowithout reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.

CLUASE 23

Changes in firm's Constitution to be intimated

Where the contractor is a partnership firm, the previous approval in writing of the Engineer-in-Charge shall be obtained before any change is made in the constitution of the firm. Where the contractor is an individual or a Hindu undivided family business concern such approval as aforesaid shall likewise be obtained before the contractor enters into any partnership agreement where under the partnership firm would have the right to carry out the works hereby undertaken by the contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned in contravention of Clause 21 thereof and the same action may be taken, and the same consequences shall ensue as provided in the said Clause 21.

CLAUSE 24

All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Engineer-in-Charge who shall be entitled to direct at Approval of Engineer In what point or points and in what manner they are to be commenced, and from time to time charge carried on.

CLAUSE 25

Except where otherwise provided in the contract all questions and disputes relating to the Settlement of meaning of the specifications, design, drawings and instructions here-in-before mentioned **Disputes &** Arbitration and as to the quality of workmanship or materials used on the work or as to any other question, claim right matter or thing whatsoever in any way arising out of or relating to contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter.

> If the contractor considered any work demanded of him to be outside the requirements i) of the contract, or dispute any drawings, record or decision given in writing by the Engineer-in-Charge on any matter in connection with or arising out of the contract or carrying out of the contract or carrying out of the work, to be unacceptable, he shall promptly within 7 days request the General Manager(Works), BUIDCo in writing for written instruction or decision. Thereupon, the General Manager(Works), BUIDCo shall give his written instructions or decision within a period of fifteen days from the receipt of the contractor's letter.

If the General Manager(Works), BUIDCo fails to give his instructions or decision in writing within the aforesaid period or if the contractor is dissatisfied with the instructions or decision of the General Manager(Works), BUIDCo the contractor may, within 15 days of the receipt of General Manager(Works)'s decision, appeal to the Chief General Manager, BUIDCo who shall afford an opportunity to the contractor to be heard, if the latter so desires, and to offer evidence in support of his appeal. The Chief General Manager, BUIDCo shall give his decision within 30 days of receipt of contractor's appeal. If the contractor is dissatisfied with this decision, the contractor shall within a

period of 30 days from receipt of the decision, give notice to the Chief General Manager, for reference of the same to arbitration tribunal failing which the said decision shall be final binding and conclusive and not referable to adjudication by the arbitrator.

 Except where the decision has become final, binding and conclusive in terms of Sub Para (i) above disputes or difference shall be referred for adjudication through Arbitration Tribunal already established by the state government under Bihar Public Work Contract Disputes arbitrational Tribunal Act 2008.

It is also a term of this contract that if the contractor does not make any reference to the arbitration Tribunal in respect of any claims in writing as aforesaid within 45 days of receiving the intimation from the Engineer-in-Charge that the final bill is ready for payment, the claim of the contractor shall be deemed to have been waived and absolutely barred and the BUIDCo shall be discharged and released of all liabilities under the contract in respect of these claims.

The arbitration shall be conducted in accordance with the provisions of the Bihar Public works contract Dispute Arbitration Tribunal Act 2008 or any statutory modifications or reenactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceeding under this clause.

All arbitration shall be held at PATNA and at no other place.

CLAUSE 26

Contractor to indemnity Govt. against Patent Rights The contractor shall fully indemnify and deep indemnified the Governor of Bihar against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under the action brought against Government in respect of any such matter as aforesaid the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise therefrom, provided that the contractor shall not be liable to indemnify the Governor of Bihar if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Engineer-in-Charge in this behalf.

CLAUSE 27

Lumpsum Provisions in Tender When the estimate on which a tender is made includes lump sum in respect of parts of the work, the contractor shall be entitled to payment in respect of the items of work involved or the part of the work in question at the same rates as are payable under this contract for such items, or if the part of the work in question is not, in the opinion of the Engineer-in-Charge capable of measurement, The Engineer-in-Charge may at his discretion pay the lump-sum amount entered in the estimate, and the certificate in writing of the Engineer-in-Charge shall be final and conclusive against the contractor with regard to any sum or sums payable to him under the provisions of the clause.

CLAUSE 28

Action where no Specifications are specified In the case of any class of work for which there is no such specifications as referred to in Clause 11, such work shall be carried out in accordance with the Bureau of Indian Standards Specifications, Indian Road Congress for road works and Indian Building Congress for building works or any central government agency. In case there are no such specifications in Bureau of Indian Standards, the work shall be carried out as per manufacturers specifications. If not available then as per Department Specifications. In case there are no such specifications as required above, the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in-Charge.

CLAUSE 29
i) With-holding and lien in respect of sums due from contractor Whenever any claim or claims for payment of a sum of money arises out of or under the contract or against the contractor, the Engineer-in-Charge or the Government shall be entitled to with hold and also have a lien to retain such sum or sums in whole or in part from the security, if any deposited by the contractor and for the purpose aforesaid, the Engineer-in-Charge or the Government shall be entitled to withhold the security deposit, if any, furnished as the case may be and also have a lien over the same pending finalisation or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, the Engineer-in-Charge or the Government shall be entitled to withhold and have a lien to retain to the extent of payable or which may at any time thereafter become payable to the contractor under the same contract or any other contract with the Engineer-in-Charge of the Government or any contracting person through the Engineer-in-Charge of the Government or any contraction person through the Engineer-in-Charge pending finalisation of any such claim.

It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above by the Engineer-in-Charge or BUIDCo will be kept withheld or retained as such by the Engineer-in-Charge or BUIDCo till the claim arising out of or under the contract is determined by the arbitrator (if the contract is governed by the arbitration clause) or by the competent court, as the case may be and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the contractor. For the purpose of this clause, where the contractor is a partnership firm or a limited company, the Engineer-in-Charge or the BUIDCo shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company as the case may be, whether in his individual capacity or otherwise.

ii) BUIDCo shall have the right to cause an audit and technical examination of the works and the final bills of the contractor including all supporting vouchers, abstract etc., to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed to have been done by him under the contract and found not to have been executed, the contractor shall be liable to refund the amount of over-payment and it shall be lawful for BUIDCo to recover the same from him in the manner prescribed in sub-clause (i) of this clause or in any other manner legally permissible; and if is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by BUIDCo to the contractor, without any interest thereon whatsoever.

CLAUSE 29 A

Lien in respect of claims in other Contracts Any sum of money due and payable to the contractor (including the security deposit returnable to him) under the contract may be withheld or retained by way of lien by the Engineer-in-Charge or the BUIDCo or any other contracting person or persons through Engineer-in-Charge against any claim of the Engineer-in-Charge or BUIDCo or such other person or persons in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Engineer-in-Charge or the BUIDCo or with such other person or persons.

It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the Engineer-in-Charge or the BUIDCo will be kept withheld or retained as such by the Engineer-in-Charge or the BUIDCo till his claim arising out of the same contract or any other contract is either mutually settled or determined by the arbitration clause 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 on any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the contractor.

CLAUSE 30

Unfiltered Water The contractor(s) shall make his/their own arrangements for water required for the work and nothing extra will be paid for the same. This will be subject to the following conditions.

supply

i) That the water used by the contractor(s) shall be fit for construction purposes to the satisfaction of the Engineer-in-Charge.

ii) The Engineer-in-Charge shall make alternative arrangements for supply of water at the risk and cost of contractor?(s) if the arrangements made by the contractor(s) for procurement of water are in the opinion of the Engineer-in-Charge, unsatisfactory.

CLAUSE 31

Notwithstanding anything contained to the contrary in this contract, where any materials Return of for the execution of the contract are procured with the assistance of BUIDCo either by surplus material issue from BUIDCo stocks or purchase made under orders or permits or licences issued by BUIDCo the contractor shall hold the said materials economically and solely for the purpose of the contract and not dispose of them without the written permission of the BUIDCo and return, if required by the Engineer in Charge, all surplus or unserviceable materials that may be left with him after the completion of the contract or at its termination for any reason whatsoever on being paid or credited such price as the Engineer in Charge shall determine having due regard to the condition of the materials. The price allowed to the contractor however shall not exceed the amount charged to him excluding the element of storage charges. The decision of the Engineer in Charge shall be final and conclusive. In the event of breach of the aforesaid condition the contractor shall in addition to throwing himself open to action for contravention of the term of the licence or permit and/or for criminal breach of trust, be liable to BUIDCo for all moneys, advantages or profits resulting or which in the usual course would have resulted to him by reason of such breach.

CLAUSE 32

- **Hire of Plant &** i) **Machinery** The contractor shall arrange at his own expense all tools, plant machinery and equipment (hereinafter referred to as T & P) required for execution of the work except for the Plant & Machinery listed in Schedule 'C' and stipulated for issue to the contractor. If the contractor requires any item of T & P on hire from the T & P available will, if such item is available, hire it to the contractor at rates to be agreed upon between him and the Engineer-in-Charge. In such a case all the conditions hereunder for issue of T & P shall also be applicable to such T & P as is agreed to be issued.
 - ii) Plant and Machinery when supplied on hire charges shown in Schedule 'C' shall be made over and taken back at the departmental equipment yard/shed shown in Schedule 'C' and the contractor shall bear the cost of carriage from the place of issue to the site of work and back. The contractor shall be responsible to return the plant and machinery in the condition in which it was handed over to him, and he shall be responsible for all damage caused to the said plant and machinery at the site of work or elsewhere in operation and otherwise during transit including damage to or loss of plant and for all losses due to his failure to return the same soon after the completion of the work for which it was issued. The Project Director shall be the sole judge to determine the liability of the contractor and its extent in this regard and his decision shall be final and binding on the contractor.
 - iii) The plant and machinery as stipulated above will be issued as and when available and if required by the contractor. The contractor shall arrange his programme of work according to the availability of the plant and machinery and no claim, whatsoever, will be entertained from him for any delay in supply by the Department.
 - iv) The hire charges shall be recovered at the prescribed rates from and inclusive of the date the plant and machinery made over up to and inclusive of the date of the return in good order even though the same may not have been working for any cause except

major breakdown due to no fault of the contractor or faulty use requiring more than three working days continuously (excluding intervening holidays and Sundays) for bringing the plant in order. The contractor shall immediately intimate in writing to the Engineer in Charge when any plant or machinery gets out of order requiring major repairs as aforesaid. The Engineer in Charge shall record the date and time of receipt of such intimation in the log sheet of the plant or machinery. Based on this if the breakdown occurs before lunch period or major breakdown will be computed considering half a day's breakdown on the day of complaint. If the breakdown occurs in the post lunch period of major breakdown will be computed starting from the next working day. In case of any dispute under this clause the decision of the General Manager (Works) shall be final and binding on the contractor.

- v) The hire charges shown above are for each day of 8 hours (inclusive of the one-hour lunch break) or part thereof.
- vi) Hire charges will include service of operating staff as required and also supply of lubricating oil and stores for cleaning purposes. Power fuel of approved type, firewood, kerosene oil etc. for running the plant and machinery and also the full time chowkidar for guarding the plant and machinery against any loss or damage shall be arranged by the contractor who shall be fully responsible for the safeguard and security of plant and machinery. The contractor shall on or before the supply of plant and machinery sign an agreement indemnifying BUIDCo against any loss or damage caused to the plant and machinery either during transit or at site of work.
- vii) Ordinarily, no plant and machinery shall work for more than 8 hours a day inclusive of one hour lunch break. In case of an urgent work however, the Engineer in Charge may, at his discretion, allow the plant and machinery to be worked for more than normal period or 8 hours a day. In that case the hourly hire charges for overtime to charge (1/8)th of the daily charges) subject to a minimum of half day's normal charges on any particular day. For working out hire charges for over time a period of half an hour and above will be charged as one hour and a period of less than half an hour will be ignored.
- viii) The contractor shall release the plant and machinery every seventh day for periodical servicing and/or wash out which may take about three to four hours or more. Hire charges for full day shall be recovered from the contractor for the day of servicing/Wash out irrespective of the period employed in servicing.
- ix) The plant and machinery once issued to the contractor shall not be returned by him on account of lack of arrangements of labour and materials, etc. on his part, the same will be returned only when they are required for major repairs or when in the opinion of the Engineer in Charge the work or a portion of work for which the same was issued is completed.
- x) Log Book for recording the hours of daily work for each of the plant and machinery supplied to the contractor will be maintained by theDepartment and will be countersigned by the contractor or his authorised agent daily. In case the contractor contests the correctness of the entries and/or fails to sign the Log Book the decision of the Engineer in Charge shall be finaland binding on him. Hire charges will be calculated according to the entries in the Log Book and will be binding on the contractor. Recovery on account of hire charges for road rollers shall be made for the minimum number of days worked out on the assumption that a roller can consolidate per day and maximum quantity of materials or area surfacing as noted against each in the annexed statement (see attached annexure).
- xi) In the case of concrete mixers, the contractors shall arrange to get the hopper cleaned and the drum washed at the close of the work each day or each occasion.

a) In case rollers for consolidation are employed by the contractor himself, log book for such rollers shall be maintained in the same manner as is done in case of departmental rollers, maximum quantity of any item to be consolidated for each roller day shall also be same as in Annexure to Clause 34(x). For less use of rollers recovery for the less roller days shall be made at the stipulated issue rate.

- xii) The contractor shall be responsible to return the plant and machinery in the condition in which it was handed over to him and he shall be responsible for all damage caused to the said plant and machinery at the site of work or elsewhere in operation or otherwise or during transit including damage to or loss of parts, and for all losses due to him failure to return the same soon after the completion of the work for which it was issued. The Project Director shall be the sole judge to determine the liability of the contractor and its extent in this regard and his decision shall be final and binding on the contractor.
- xiii) The contractor will be exempted for levy of any hire charges for the number of days he is called upon in writing by the Engineer in Charge to suspend execution of the work provided by BUIDCo plant and machinery in question have, in fact remained idle with the contractor because of the suspension.
- xiv) In the event of the contractor not requiring any item of plant and machinery issued by BUIDCo though not stipulated for issue in Schedule 'C' any time after taking delivery at the place of issue, he may return it after two days written notice or at any time without notice if he agrees to pay hire charges for two additional days without in any way affecting the right of the Engineer in-Charge to use the said plant and machinery during the said period of two days as he likes including hiring out to a third party.

CLAUSE 33

Contractors Superintendence, Supervision, Technical Staff & Employees

Employment of ⁱ⁾ Technical Staff and employees

) The contractor shall provide all necessary superintendence during execution of the work and as along thereafter as may be necessary for proper fulfilling of the obligations under the contract.

The contractor along with bidding of the tender , intimate in writing to the Engineer-in-Charge the name, qualifications, experience, age, address and other particulars along with certificates, of the technical representative to be in charge of the work. If there is any change then the new incumbents qualifications and experience shall not be lower than specified in Schedule in I.T.B. (Annexure – 2). The Engineer-in-Charge shall within 15 days of issue of letter of acceptance intimate in writing his approval or otherwise it is deemed to be approved. Any such approval may at any time be withdrawn and in case of such withdrawal the contractor shall appoint another such representative according to the provisions of this clause. Decision of the tender accepting authority / General Manager (Works) shall be final and binding on the contractor in this respect. Technical staff shall be available at site within fifteen days of start of work.

If the contractor (or any partner in case of firm/company) himself has such gualifications, it will not be necessary for the said contractor to appoint such a principal technical representative but the contractor shall designate and appoint a responsible agent to represent him and to be present at the work whenever the contractor is not in a position to be so present. All the provisions applicable to the principal technical representative under the Clause will also be applicable in such a case to contractor or his responsible agent. The principal technical representative and/or the contractor or his responsible authorised agent shall be actually available at site at least two working days every week, these days shall be determined in advance and also during recording of measurement of works and whenever so required by the Engineer-in-Charge by a notice as aforesaid and shall also note down instructions conveyed by the Engineer-in-Charge or his designated representative in the site order book and in token of acceptance of measurements. There shall be no objection if the representative/agent looks after more than one work and not more than three works in the same station provided these details are disclosed to the Engineer-in-Charge and he shall be satisfied that the provisions and the purpose of the clause are fulfilled satisfactorily.

If the Engineer-in-Charge, whose decision in this respect is final and binding on the contractor, is convinced that no such technical representative or agent is effectively appointed or is effectively attending or fulfilling the provision of this clause, a recovery shall be effected from the contractor as specified in Schedule 'F' and the decision of the

Engineer-in-Charge as recorded in the site order book and measurement recorded in Measurement Books shall be final and binding on the contractor. Further if the contractor fails to appoint a suitable technical representative or responsible agent and if such appointed persons are not effectively present or do not discharge their responsibilities satisfactorily, the Engineer-in-Charge shall have full powers to suspend the execution of the work until such date as a suitable agent is appointed and the certificate employment contractor shall submit а of of the technical representative/responsible agent along with every on account bill/fixed bill and shall produce evidence if at any time so required by the Engineer-in-Charge.

ii) The contractor shall provide and employ on the site only such technical assistants as are skilled and experienced in their respective fields and such foremen and supervisory staff as are competent to give proper supervision to the work.

The contractor shall provide and employ skilled, semiskilled and unskilled labour as is necessary for proper and timely execution of the work.

The Engineer in Charge shall be at liberty to object to and require the contractor to remove from the works any person who in his opinion misconducts himself, or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by the Engineer in Charge to be undesirable. Such person shall not be employed again at works site without the written permission of the Engineer in Charge and the persons so removed shall be replaced as soon as possible by competent substitutes.

Levy/Taxes constrained by Contractor 34

- i) Sales Tax or any other tax on materials in respect of this contract shall be payable by the contractor according to law in effect.
- ii) The contractor shall deposit royalty and obtain necessary permit for supply of the red earth, moorum, sand chips bajri, stone, kankar, etc. from local authorities.
- iii) If pursuant to or under any law, notification or order any royalty, cess or the hike becomes payable to the Government of India and does not at any time become payable by the contractor to the State Government/ Local authorities in respect of any material used by the contractor in the works then in such a case, it shall be lawful to the Government of India and it will have the right and be entitled to recover the amount paid in the circumstances as aforesaid from the dues of the contractor.

CLAUSE 35

- **Conditions for reimbursement of levy/taxes if levied after receipt of tenders i**) All tendered rates shall be inclusive of all taxes and levies payable under respective statutes. However, pursuant to the Constitution (46th Amendment) Act. 1982, if any further tax or levy is imposed by Statute, after the last stipulated date for the receipt of tenders including extensions if any and the contractor thereupon necessarily and properly pays such taxes/levies the contractor shall be reimbursed the amount so paid, provided such payments, if any, is not, in the opinion of the Chief General Manager (whose decision shall be final and binding on the contractor) attributable to delay in execution of work within the control of the contractor.
 - ii) The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorised representative of the Government and/or the Engineer-in-Charge and further shall furnish such other information/document as the Engineer-in-Charge may require from time to time.
 - iii) The contractor shall, within a period of 30 days of the imposition of any such further tax or levy, pursuant to the Constitution (Forty Sixth Amendment) Act 1982, give a written notice thereof to the Engineer-in-Charge that the same is given pursuant to this condition, together with all necessary information relating thereto.

CLAUSE 36

If the contractor is imprisoned, becomes insolvent compound with his creditors, has a receiving order made against him or carries on business under a receiver for the benefit of the creditors or any of them, or being a partnership firm becomes dissolved, or being a company or corporations goes into liquidation or commences to be wound up not being a voluntary winding up for the purpose only of amalgamation or reconstitution the department shall be at liberty.

- (a) To give such liquidator, receiver, or other person in whom the contract may become vested, the option of carrying out the contract or a portion there of to be determined by BUIDCo, subject to his providing an appropriate guarantee for the performance of such contract or.
- (b) To terminate the contract, forthwith by notice in writing to the contractor, the liquidator, the receiver or person in whom the contract may become vested and take further action as provided in the relevant clauses of the contract.

CLAUSE 37

Termination of Contract on death of contractor Without prejudice to any of the rights or remedies under this contract if the contractor dies, the Divisional Officer on behalf of the Governor of Bihar shall have the option of terminating the contract without compensation to the contractor after the affidavit of his/ their legal heir/heirs that they are not going to be in this profession in future.

CLAUSE 38

If relation working in PWD then the contractor not allowed to tender

The contractor shall not be permitted to tender for works in the P.W.D. Division (responsible for award and execution of contracts) in which his near relative is posted as Accountant or as an officer in any capacity between the grades of the General Manager (Works) and Dy. Project Director (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any GazettedOfficer in the P.W.D. or in BUIDCo. Any breach of this condition by the contractors of BUIDCoshall lead to blacklisting. If the contractor is registered in any other department, he shall be debarred from tendering in BUIDCo for any breach of this condition.

NOTE : By the term "near relatives" is meant wife, husband, parents and grand parents, children and grand children, brothers and sisters, uncles, aunts and cousins and their corresponding in law.

CLAUSE 39

No-Gazetted- No engineer of gazetted rank of other gazetted officer employed in engineering of

the contractor"s service, as the case may be.

Engineer to work as Contractor within two years of retirement

administrative duties in an engineering department of the Government of Bihar shall work as a contractor or employee of a contractor for a period of two years after his retirement from government service without the previous permission of State Government in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be such a person who had not obtained said permission prior to engagement in

CLAUSE 40

Return of material and recovery for excess material issued i) After completion of the work and also at any intermediate stage in the event of non reconciliation of materials issued, consumed and in balance (see Clause 10) theoretical quantity of materials issued by the BUIDCo for use in the work shall be calculated on the basis and method given hereunder.

a) Quantity of cement & bitumen shall be calculated on the basis of quantity of cement & bitumen required different items of work as shown in the Schedule of Rates mentioned in-Schedule 'F'. In case any item is executed for which standard constants for the consumption of cement or bitumen are not available in the above mentioned schedule/statement or cannot be derived from the same shall be calculated on the basis of standard formula to be laid down by the Engineer in Charge.

- b) Theoretical quantity of steel reinforcement of structural steel sections shall be taken as the quantity required as per design or as authorised by Engineer in Charge, including authorisedlappages, chairs etc., plus 3% wastage due to cutting into pieces, such theoretical quantity being determined and compared with the actual issues each diameter wise, section wise and category wise separately.
- c) For any other material as per actual requirements.

ii) Over the theoretical quantities of materials so computed a variation shall be allowed as specified in Schedule 'F'. The difference in the net quantities of material actually issued to the contractor and the theoretical quantities including such authorised variation, if not returned by the contractor or if not fully reconciled to the satisfaction of the Engineer in Charge within fifteen days of the issue of written notice by the Engineer in Charge to this effect shall be recovered at the rates specified in Schedule 'F' without prejudice to the provision of the relevant conditions regarding return of materials governing the contract. Decision of Engineer in Charge in regard to theoretical quantities of materials, which should have been actually used as per the Annexure of the standard schedule of rates and recovery at rates specified in Schedule 'F', shall be final & binding on the contractor

For non scheduled items, the decision of the General Manager (Works) regarding theoretical quantities of materials, which should have been actually used, shall be final and binding on the contractor.

iii) The said action under this clause is without prejudice to the right of BUIDCo to take action against the contractor under any other conditions of contract for not doing the work according to the prescribed specifications.

CLAUSE 41

Release of Security deposit On completion of the whole of the work, half of the total amount of security shall be repaid to the contractor after six months of completion. However, the balance half of the total amount of security will be returned after completion of defect liability period and after the Engineer has certified that all defects notified by him to the contractor before the end of this period have been corrected and also after recovery of any dues.

CLUASE 42

Responsibility
of Technical
Staff and
employeesTechnical officers / staff deployed by the Contractor at any construction site will also be
responsible for inferior quality / poor performance of any work and his name will be circulated
to all works Sites of BUIDCo to debar from any other site, if his name is being proposed by
other contractor.

CLAUSE 43

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

CLAUSE 44

Insurance The Contractor shall provide, in the joint names of BUIDCo and the Contractor, insurance cover from the Start Date to the end of the Defects Liability Period, in the amounts and deductibles stated in the Contract Data for the following events which are due to the Contractor's risks :

- (a) loss of or damage to the Works, Plant and Materials;
- (b) loss of or damage to Equipment;
- (c) loss of or damage of property (except the Works, Plant, Materials and Equipment) in connection with the Contract; and
- (d) personal injury or death.

Policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the Start Date. All such insurance shall provide for

compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.

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

Alteration to the terms of an insurance shall not be made without the approval of the Engineer.

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

CLAUSE 45

Cash Flow Estimate to be Submitted The Contractor shall, within the time stated in special Conditions of contract after the date of the Letter of Acceptance, provide to the Engineer for his information a detailed cash flow estimate, in quarterly periods, of all payments to which the Contractor will be entitled under the Contract and the Contractor shall subsequently supply revised cash flow estimates at

quarterly intervals, if required to do so by the Engineer. in charge

CLAUSE 46

Safety, Security The Contractor shall, throughout the execution and completion of the Works and the remedying of any defects therein :

- (a) have full regard for the safety of all persons entitled to be upon the Site and keep the Site (so far as the same is under his control) and the Works (so far as the same are not completed or occupied by BUIDCo) in an orderly state appropriate to the avoidance of danger to such persons,
 - (b) Provide and maintain at his own cost all lights, guards, fencing, warning signs and watchmen and where necessary or required by the Engineer or by any duly constituted authority, for the protection of the Works or for the safety and convenience of the public or others, and
 - (c) take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation.

CLAUSE 47

Cost of Samples All samples shall be supplied by the Contractor at his own cost if the supply thereof is clearly intended by or provided for in the Contract.

CLAUSE 48

Cost of Tests

- The cost of making any test shall be borne by the Contractor if such test is :
- (a) clearly intended by or provided for in the Contract, or
 - (b) particularized in the Contract (in case only of a test under load or of a test to ascertain whether the design of any finished or partially finished work is appropriate for the purposes which it was intended to fulfill) in sufficient detail to enable the Contractor to price or allow for the same in his Tender.

CLAUSE 49

Cost of Tests not Provided for

- If any test required by the Engineer which is :
- (a) not so intended by or provided for,
 - (b) (in the cases above mentioned) not so particularized, or
 - (c) (though so intended or provided for) required by the Engineer to be carried out at any place other than the Site or the place of manufacture, fabrication or preparation of the materials or Plant tested,

shows the materials, Plant or workmanship not to be in accordance with the provisions of the Contract to the satisfaction of the Engineer, then the cost of such test shall be borne by the Contractor, but in any other case department will bear the cost.

CLAUSE 50

Commencement of Works

t The contractor shall commence the Works as soon as is reasonably possible after the receipt by him of a notice to this effect from the Engineer, which notice shall be issued within the time stated in the Appendix to Tender after the date of the Letter of Acceptance. Thereafter, the Contractor shall proceed with the Works with due expedition and without delay.

CLAUSE 51

Substational completion of parts If any part of the Permanent Works has been substantially completed and has satisfactorily passed any Test on Completion prescribed by the Contract, the Engineer may issue a Taking-Over Certificate in respect of that part of the Permanent Works before completion of the Works and, upon the issue of such Certificate, the Contractor shall be deemed to have undertaken to complete with due expedition any outstanding work in that part of the Permanent Works during the Defects Liability Period.

CLAUSE 52

Force Majeure

Force Majeure Neither party shall be liable to the other for any loss or damage occasioned by or arising out of acts of GOD such has Unprecedented flood, Volcanic eruption, Earthquake or other convulsion of nature and other acts such as general/ partial strikes by a section of government employees/ invasion, the act of foreign countries/ hostilities or war like operations before or after declaration of war, rebellion/ military or usurped power which prevent performance of the contract and which could not have been foreseen or avoided by a prudent person.

CLAUSE 53

Recovery

Force Majeure Any amount found recoverable from the contractor shall be recovered as public demand under the Bihar Public Demand Act. without prejudice to any other mode of recovery.

CLAUSE 54

The contractor for each group shall provide 2 nos Bolero/Scorpio with fuel and all necessary running expenditure incurred including driver for the departmental officer for supervision of work at his own cost till the completion of project.

SCOPE OF WORK

1. INTRODUCTION

Motihari is located in the northwestern part of Bihar. The municipality of Motihari was established in 1879 and now it is the district head quarter of East Champaran. The MotiJheel is the pride and main attraction of this town. The Jheel is located in the centre with the town spread on either bank.

2. CONCEPTS PROPOSED ON MOTIJHEEL LAKE

Various developmental activities are proposed on Motijheel Lake is given below:

- De-silting
- De-weeding
- Improving bunds
- Tree plantation
- Development of parks
- Toilet blocks
- Bathing Ghats
- Dobhighats
- Pathways
- Parking
- Peripheral drain all around the lake
- Construction of Silt Traps to storm water Inlets
- Construction of 2No's of Sewage Treatment Plants (STP)
- Construction of Boat Jetty
- Construction of Food courts
- Miscellaneous structures recommended to be constructed

It is found necessary to construct following structures inside the lake:

- a. Entrance gates to Parks.
- b. Security rooms
- c. Watchmen residential building (If required)
- d. Gazebos: for recreation and shelter in the park area and walk way sides-
- e. Pergolas: for recreation purpose in the park area and walk way sides-

Other structures recommended to be constructed:

- Street lighting using Solar Energy
- Road Development
- Boating

- Toilets etc.,
- Plantation of trees and flowers plants along the boundary inside the lake and in the park area:
- Arrangement for feeding regular supply of water for plantation and green belt development:
- Improvements to the approach roads around the lake area:
- Litter Bins:
- Providing electrification and illumination to the entire lake area:
- Providing high mast lights:
- Providing floating fountains in the lake area for Aeration:
- Providing benches and dust bins signage& direction boards in lake and park area and walkway sides:

Area Statement for Motijheel					
S. No	Lake Component	Cumulative Area in Sq.M			
1	Lake Water spread Area	978654			
2	Area covered with Bund	44580			
3	Tree Plantation all along the lake periphery	26748			
4	Development of park	13093			
5	Toilet blocks	180			
6	Bathing Ghats	3000			
7	Dhobi Ghats	2125			
8	Construction of path ways to a distance of 1.5km on either side (total 3km) of park area with 8m width	24000			
9	Vehicle parking area Near Bathing Ghats and Parks	2950			
10	STPs (2 numbers)	16188			
11	Other Miscellaneous activities	10814			
	Total	1122332			

Table 5-1: Area Statement of Proposed Activities

3. De-silting

Silt removed from a lake or water body is classified as waste by the Environment Agency, and as such is subject to the waste regulations. This means that the silt disposal process is controlled by legislation. The first stage of the de-silting process is to carry out a survey to establish the depth, and to analyze the chemical composition of the silt to characterize it for disposal, the silt may contain heavy metal contamination or hydrocarbons from road runoff that make it hazardous and so cannot be spread to land without remediation. Out of several de-silting methods Floating dredgers which will work on the surface of the water and either pump the silt ashore using underwater dredge pumps. Or they are excavators mounted on floating platforms to dig the silt and cast it ashore or into barges for disposal. The floating excavator can also feed a pumping system. If the water can be drained out of the lake then the silt can be excavated and hauled in dump-trucks to the tip site or the silt can be loaded into a pumping system where it is screened and macerated before being pumped to a disposal area. Pumping silt reduces the impact of the works because there are not dumpers running backwards and forwards to the tip area. Before the silt can be transported off site it must be dried, this requires additional equipment and storage space.

In order to estimate the quantity of silt a detailed bathymetric survey has been conducted within the Mothijheel Lake. The average thickness of accumulated silt is about 0.8m. Based on the survey it is calculated about 7.8 Lakhs cum of silt is present within the lake. During de-silting temporary linear shaped silt drying beds are proposed near the outer side of lake. The dried silt from the drying beds should be further disposed in a suitable open dump yard within 5km radius of the lake.

Desilting is becoming a major component of any Lake Conservation Project now a days. The basic reasons given for necessity of desilting are – increasing the storage capacity and checking eutrophic conditions. Desilting is proposed at a depth of 0.8m in Motijheel . Detailed methodology for desilting is given below.

Detailed Methodology for Desilting

Dredging is the removal of accumulated lake bottom sediments ("Muck"). Sediments are commonly removed to improve navigation, restore recreational access for leisure boating, swimming, and fishing, or regain lost storage capacity in water supply reservoirs. Dredging also is done to remove nutrient-rich sediments, remove toxic substances, reduce rooted aquatic plant growth, lessen sediment re-suspension by winds and waves, and improve fish habit.

Dredging sometimes can improve water quality by reducing the amount of nutrients available from the sediments, thereby reducing nuisance algae blooms. This can occur through direct removal of nutrient-rich sediments, or by deepening the lake enough to allow thermal stratification to develop and thereby limit nutrient movement from deep-water areas to the upper waters. Dredging in areas of rooted aquatic plants controls their growth through direct removal, and also can limit future re-growth if the new water depths are deeper than sunlight can reach. For lakes that freeze over in the winter, fish survival can be enhanced by removing oxygen-demanding sediments and creating deeper water areas. Sometimes, however, sediment removal can dig up the unexpected. Dredging too shallow may uncover fertile sediments and provide a perfect place for aquatic plants to grow if the bottom gets enough sunlight. Dredging too deep may expose old arsenic treatments or nutrient-rich wastes from a forgotten sewage treatment plant.

The decision to dredge shall be based on sufficient study that shows accumulated sediment is having an adverse impact on water quality, recreation, or navigation.

The Environmental management plan for Lake Dredging is an action plan aiming to control pollution at the source level to the possible extent with the available and affordable technology followed by treatment measures before they are discharged. It encompasses the mitigation measures that are proposed in order to synchronize the economic development of the study area with the environmental protection of the region. The Environmental Management plan should consider addressing the operational management of issues such as Turbidity, Noise, Odour, Water quality and contaminated sediments. The EMP should also address the collection and storage of sewage and garbage on board all vessels as well as contingencies for oil spills. Issues that shall be addressed in an Environmental Management Plan are detailed below:

a) Minimise Effects on water quality

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- Increase monitoring for turbidity (This will identify but not minimize turbidity);
- Incorporate or re-orientate silt screen
- Reduce overflow of barges or bunds
- Increase travel path of fluid within bunds to increase sedimentation
- Decrease rate of dredging
- Select appropriate dredge for material being dredged
- Relocate dredge to an alternative location
- Use silt screens where practical and sediments are fine
- If necessary, monitor water quality including turbidity, as well as sea-grass and for other sensitive species.

b) Minimize Effects of Contaminated Sediments

Monitor water quality near dredging operations removing highly contaminated sediments. Dredge contaminated sediments first and dispose to land or place on spoil grounds first and cover with clean sediments.

Use Silt screens to contain contaminated sediment

c) Sensitive Biological Communities

Map location of sensitive communities Detail measures to protect sensitive communities when dredging.

d) Land Disposal

Site bounded area to minimize impacts Control water quality of discharge Monitor discharge to ensure excessive sediment is not discharged

e) Prevent Noise Nuisance in Residential Areas

Liaise with the local community to identify areas and times sensitive to noise Alter or enclose equipment to reduce noise at the source Use sound-absorbing materials to prevent the spread of noise by isolating the source. Monitor noise levels

f) Ensure that Small Odor problems do not Alarm Nearby residents.

Inform residents of temporary nature of any odors and grey sediment Cease dredging on very hot days (greater than 350 C) or times of high public use Inform public of works using on-site signs.

1. Sediments Temporary Storage & Transportation

Croplands and pasturelands are commonly utilized for land-application of trucked sediments or for sitting disposal basins. Landfills are another option for trucked sediments. The closer the disposal site is to the lake, the better option.

In urban areas when open land is scarce, finding a proper site nearby may be very difficult. Generally, dredging is more cost-effective when the disposal site is located within 1 Km of the dredging area. However, it is not uncommon to hydraulically pump sediments up to 2 Kms or more, or truck sediments even farther.

Dried sediments later may be incorporated into the landscape at the disposal site. Alternatively, the dried sediments may be removed and used as fill or disposed of elsewhere.

For hydraulic dredging projects, a disposal basin must be designed and constructed to hold not only all the dredged sediments once they've dried, but also be large enough to allow the pumped sediment/water slurry enough time to settle out the solids and return relatively clear water to the lake.

Also, because lake sediments tend to increase in volume temporarily during hydraulic dredging, a "bulking factor" is added when designing the disposal basin. A 120% bulking factor is typical. For example, if 10000 cubic yards of sediment were to be dredged, the disposal basin would have to be sized to hold 1.2 times 10,000 or 12,000 cubic yards.

Geology of the disposal site must be considered as well. Some sites may be too porous and could allow nearby lakes or streams, or the groundwater table, to be impacted. Costs increase when the sediments must be trucked far away or the disposal site modified to contain the sediments. If the lake sediments themselves are found to have elevated concentrations of contaminants (e.g., heavy metals, certain pesticides), special handling and disposal will be required. Nutrient-enriched sediments are not considered contaminated and therefore do not require special handling. A typical hydraulic dredging set up is given below:



Dried Silt from the temporary bunds shall be carrying to the land fill site through closed trucks during night time. Spillage proof transportation systems shall be followed

Land fill construction for storing dried dredged material shall be as per the USEPA specifications & National Standards.

For the proposed project suitable place will be identified within 3Km radius. Dredged material will be temporarily stored and will be disposed to Municipal secured Landfill.

4. De-weeding

De-weeding is the process of removing the weeds grown on the surface of the water body mainly in the stagnated water bodies. There are two types of de-weeding methods viz. manual and mechanical. Here in the present project area it is suggested to proceed any one type of method or in combination of both. The area occupied with weeds within Moti jheel is about 640201Sq.m.

Deweeding is proposed on the lake. Weeds (water hyacinth) could be used as a compost or fertilizer. The advantage of utilizing water hyacinth as a compost or fertilizers are it is easy to produce low cost and the resources are abundantly available. In Motihari the best use of water hyacinth can be made by using it as a compost or fertilizer due to the following reasons:

- 1) In and around Motihari agriculture activity is predominant, where organic manures are preferred.
- 2) Organic manure produced can improve soil fertility.
- 3) The maintenance of the plants especially the fertilizing requirements are quite costly
- 4) The plants have high mineral content and hence promote plant growth very well.
- 5) It would reduce the cost and make Motihari greener.
- 6) They can be used not only in parks but also in small gardens to grow plants which require lot of manure.

5. Improving bunds at selective locations

The proposed lakes are having ring bunds all along the periphery of the lakes. Motijheel is having bund length of about 9000 meters. It is observed during field survey at several locations these bunds are either not having proper strength or the height of bund is reduced to the natural ground level, due to the effect of surface erosion process since longer lime. Hence it is suggested to improve the bunds with available local natural earth material preferable with impervious or low permeable material.

In order to prevent the erosion of bunds, It is also suggested to have Bio-engineering method of bunds wherein dense plantation should be taken up in the inner and outer slopes of bunds. The detailed drawing of bunds and pathways are presented in corresponding annexure.

The supplier of Geo-cell material for the development of bunds is given below:

6. Tree plantation

Tree plantation is a part of Lake Beautification. A 3m width strip all around the lake boundary is allocated for the development of tree plantation. Tree Plantation shall be done as per BOQ.

7. Development of parks

The proposed parks are basically oriented towards the development of recreation opportunities. Park design is influenced by the intended purpose and audience, as well as by the available land features. The proposed parks are intended to provide recreation for children whichinclude a playground similarly for adults it is proposed to have walking paths and decorative landscaping. Apart from that Specific features, such as picnicking, walking, food stalls and bird watchingare also be included to support specific activities.

During first phase of development in Motijheel, it is proposed to have one park. The tender drawing of park is attached.

8. Toilet Blocks

It is estimated to have 5 toilet blocks and 6 additional toilet blocks along the periphery of the lake. These toilet blocks are having 4.0 m x 4.5 m and 8.74 m x 3.0 m. The tender drawing of toilet blocks is attached.

9. Bathing Ghats

The Chat Puja is one of the very famous religious occasion in Mothihari town takes place every year, on which hundreds of pilgrims will have holy dip within the lake. Keeping this in view about 4 bathing ghats are proposed all around the lake. The term Ghat refers to a series of steps leading down to a body of water, something as small as a pond or as large as a major river.

These new ghats are associated with hand railings, changing room and a vehicle parking area. The tentative dimensions of bathing ghats are 15m x 20m occupying 300sq.m area each. The distance between the successive bathing Ghats is about 700m to 900m. The detailed drawing of bathing ghats is attached.

10. Pathways

Path ways are proposed all around the lake periphery of both the lakes. The tentative length of pathway shall be 3km. These pathways are having 1m width of green belt area, 3m width of walkway, 2.5m width of jogging and cycling area and 1.5m width of utility development area such as sitting benches, electrical poles, safety railing and signage boards etc., all put together it is occupying a width of 8m covering a total area of 24000Sq.m. This includes following work activities

- i) Compacting original ground supporting sub-grade Loosening of the ground up to a level of 500 mm below the sub-grade level, watered, graded and compacted in layers to meet requirement of table 300-2 for sub-grade construction.
- ii) Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in

required colour and pattern over and including 50mm thick compacted bed of course sand, filling the joints with coarse sand etc. all complete as per the direction of Engineerincharge.

- iii) Half brick masonry with bricks of class designation 100A in foundations and plinth in :
 - Cement mortar 1:4 (1 cement: 4 coarse send)
- iv) Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m. including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.
- v) 15 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement
- vi) Colour washing such as green, blue or buff to give an even shade for New work (two or more coats) with a base coat of white washing
- vii)

11. Peripheral drain all around the lake

It is proposed to provide underground peripheral drain all around the lake. Total length of drain is about 9Km. 4.5Km in the western side and 4.5Km in eastern side. Manholes are also proposed to construct at an interval of 30m. RCC pipes are proposed to carry wastewater. The entire drain will be connected to Collection well by gravity. The slope provided for laying pipeline as per design. The dia of the pipe varies from 250mm to 300mm. Sewage will be pumped to STP. The tender drawing of peripheral drain is attached.

12. Sewage Treatment plants

2 No's of 2MLD STPs (Extended Aeration system) are proposed to treat wastewater coming from the peripheral drain. In a sewage treatment plant, the process is a biological process.

Major aerobic suspended treatment process is

- Activated Sludge Process
- Extended Aeration system
- Sequential Batch reactor
- Membrane Bio reactor
- Moving Bed Bio reactor

Last three systems are little bit costly and are used for less flow rate systems. Extended Aeration system is basically modified system of activated sludge process. The system is usually designed on the basis of low organic rate (low F/M ratio) and longer aeration to generate less biomass solids through endogenous respiration. The main advantage of operating the system at these conditions is that the excess sludge produced in the reactor is completely mineralized thereby eliminating the separate sludge clarification and its further handling and treatment.

This process can be used for one or several of the following purposes:

- 1) Oxidizing carbonaceous biological matter
- 2) Oxidizing nitrogeneous matter: mainly ammonium and nitrogen in biological matter.
- 3) Removing phosphates
- 4) Driving off entrained gases such as Carbon dioxide, Ammonia, Nitrogen, etc.
- 5) Generating a biological floc that is easy to settle.
- 6) Generating liquor that is low in dissolved or suspended material.

In activated sludge process wastewater containing organic matter is aerated in an aeration basin in which micro-organisms metabolize the suspended and soluble organic matter. Part of organic matter is synthesized into new cells and part is oxidized to CO₂ and water to derive energy. In activated sludge systems the new cells formed in the reaction are removed from the liquid stream in the form of a flocculent sludge in settling tanks. A part of this settled

biomass, described as activated sludge is returned to the aeration tank and the remaining forms waste or excess sludge. Sewage treated from STP will be allowed to lake. The detailed drawing of peripheral drain is presented in corresponding annexure.

13. PROPOSED SERVICES WITH THE LAKE BOUNDARY 13.1 Water Supply

The water supply scheme within the facility is designed based on the assumption that a maximum of around 2000 visitors shall visit the proposed facility. And their water requirement is adopted as 15LPCD as per National Building Code (NBC). Hence water demand for the visitors is estimated as 30000 Litres per day.

A small intake well with pump can be provided for use of water for toilets, washing clothes, plantation & landscaping but municipal water connection is proposed for food courts & vending area. Also proposed to use water from the lake through tankers and will apply for landscaping and plantation. Separate Over head tanks for small food courts and visitors, for half day water requirement of 10000 litres and 15000 litres respectively shall be provided at the top of the proposed toilet blocks.

For the visitors' convenience, a water pipeline of 25mm dia GI pipe is proposed to lay along the pathways to supply water at each wash basin and water tap is proposed at every 100m spacing. Drinking water tap shall be provided at every 500 meter interval and shall be connected to the municipal water supply line.

Water supply system is suggested to cater the needs of public visiting the parks, toilet blocks and dhobi ghats. It is proposed to have at least 7 bore wells to meet the water supply requirement. The number of bore well may increase as per site condition.

13.2 Wastewater

The sewage generated from the public conveniences& wastewater generated from Dhobi Ghats shall be connected to the peripheral drain which will be catered to STP plant for treatment.

13.3 Solid waste Management

It is estimated that 400Kg of solid waste shall be generated at the rate of 0.2Kg/capita/day from visitors activities at the proposed amenities. Separate 60 Litter bins for biodegradable and recyclable shall be placed at spacing of 40m to collect the generated solid waste daily.

These bins shall be transported to the nearby community bins provided by local municipality/corporation.

13.4 Electrical System

Solar power lighting is proposed along the pathways, at parking places and along the main entrance road. For high illumination at the children play area and public gathering places conventional electrical system is proposed.

a) Details of Solar system:

Operational Hours : 4 hours for all lights along pathways and parking places (5pm to 9pm)

: 12 hours for one third of the total lights along pathways and total lights for Main entrance road (5pm to 5am)

Distance between poles: 30m

b) Details of Proposed Electrical System (Conventional system) for Children Play area, food courts area etc.

The electrical services are designed based on the following design standards and references as shown in **Table 5-2**.

Low Voltage Switc	Fable 5-2: Electrical design Standards and References h Boards					
IEC 60439-1/1999 Low-Voltage switchgear and control gear assemblies – Part 1: Type-						
	tested and partially type-tested assemblies					
IEC 60269						
IEC 60529/1989	Degree of protection provided by enclosures (IP Code)					
IEC 60947-1/1988	Low-voltage switchgear and control gear – Part 1: General Rules.					
IEC 60947-2/1995	Low-voltage switchgear and control gear – Part 2: Circuit- Breakers.					
IEC 60947-7/1999	Low-voltage switchgear and control gear – Part 7: Ancillary equipment					
IS 8828	Low Voltage switchgear & control gear - Part V Control circuit Devices and					
10 0020	switching elements MCB					
IS 3231	Electrical relays for power system protection					
IS 10118	Code of Practice for selection, installation and Maintenance of Switchgear					
	& control gear.					
IS 8623	Low Voltage switchgear & control gear assemblies					
IS 2147: 1962						
	Degree of protection enclosures for low voltage switchgears					
IS 3231: 1986	Electrical relays for power protection					
IS 2551: 1982	Danger notice plate					
IS 3842	Application guide for relays					
IS 5051	Electromagnetic relays					
	LV Power & Control Cables					
IEC 60228/1978	Conductors of Insulated cables					
IEC 60502-1/2004	Power cables with extruded insulation and their accessories for rated					
	Voltage from 1 kV – Part 1: Cables for rated voltage of 1 kV					
IS 694	PVC insulated cables for working voltages up to and including 1100V					
IS 1554	PVC insulated (heavy duty) electric cables.					
IS 7098	Cross-linked polyethylene insulated PVC sheathed cables					
IS 5578	Guide for marking of insulated conductors					
IS 732	Code of practice for electric wiring installations					
IS 1255 – 1983	Code of practice for installation and maintenance of power cables					
IS 8130 -1984	Conductors for insulated electrical cables.					
IS 10418- 1982	Drums for electrical cable					
IS 10810- 1988	Methods of test for cables					
IS 3961- 1987	Recommended current rating					
IS 5891- 1970	Recommended short circuit rating of high voltage PVC cables					
IEC 245/ CEI 20-	Submersible Power cables					

19/ BS 6007 /	
BS 6899	
Wiring Accessories	s and Miscellaneous Electrical Equipment
IEC 60529/1989	Degree of protection provided by enclosures (IP Code)
IEC 60309	Plugs, socket-outlets and couplers for industrial purposes - Part 1: General
	requirements
IEC 60884-1	Plugs and socket-outlets for household and similar purposes - Part1:
	General requirements
IEC 60669-1	Switches for household and similar fixed-electrical installations -
	Part1: General requirements
IS 4615	Switch socket outlets
IS 1293	3 pin plugs and socket outlets up to 250 volts
IS 3854	Switches for domestic and similar purposes
IS 5133 Part-I&II	Boxes for the enclosure of electrical accessories
1969	
Light Fittings	
IEC 60598-1/2003	Luminaries – Part 1: General requirements and tests
IEC 60598-2	Luminaries – Part 2: Particular requirements
IEC 60400	Lamp holders for tubular fluorescent lamps and starter-holders
IS 1913	General Safety requirements for luminaries
IS 3553	Specification for Watertight Electric Lighting Fittings
	1

13.5 Signage Plan

Signage Boards: The purpose of providing signage in the project area is

- a. To help and protect the safety of visitors
- b. To provide direction and guidance for the use of project and facilities
- c. Inform and educate the public about the project.

The following types of signs are proposed in Motijheel lake area

a) Identification Signs: These signs help to orient the visitor and identify important areas and facilities. These signs indicate the administrative setups like Ticket counters, features like inlets, outlet, overflow weir, boating jetty, restaurant; children play area, toilet block, sewage pumping station, STP etc. Size of the sign board shall not be larger than 0.5m X 0.2m.

b) Information Signs: These are signs located in key areas throughout the site that provide important information for the visitor. The message shall be conveyed in a brief, clear manner and be located to provide information to the visitor as it is needed. This type of signs include Bulletin Board Sign, shall be large enough to post rules, regulations, and other information pertinent to a particular site; Instructional Signs, shall provide instructions for the use or operation of specific facilities such as boating jetty, Ghats etc, shall be used in association with other signs, facilities to provide supplemental information like park opening and closing time etc. Size of sign board should not be larger than 1m X 0.3m.

c) Directional Signs: These are signs that show the location of specific project features or facilities.Directional signs shall be located to provide the visitor adequate time to make a decision. Size of the boards shall not be larger than the size 0.3 m X 0.15 m.

d) Regulatory/Warning/Security Signs: These signs shall be provided for the protection of visitors and the environment. This type of signs include Vehicular signs, will be placed at entrances and exits to project areas and features, and along the travel routes within a project, to regulate motor vehicle traffic; Pedestrian signs regulate foot traffic within the recreation areas and adjacent to areas where the public is restricted and warn of latent hazards. Care shall be taken to ensure that the signs are placed in the best location to be seen by the public. Size of sign board shall not be larger than 1m X 0.3m.

13.6 Plant Species proposed on Motijheel Lake

Details of the plant species proposed on Motijheel Lake at different places are given as below

List of Plants Proposed on Motijheel

- Wherever available Tamarind, Banyan, Silk Cotton, Neem, Arjun, Siris, Peepal, Badam and Ber trees need to be retained and aesthetic landscaping to be developed around them.
- The following species are selected for plantation around the lakes and in selected green areas/parks which will not only beautify the environment but also support local birds, butterflies, insects and animals thus enhancing the biodiversity around the lakes

S.N	Botanical				
0	Name	Habit	Flowering season	Significance	Suggested areas
	Acacia				
1.	catechu	Shrub	May -August	Oblong	Along the lake bund
	Acacia				
2.	nilotica	Tree	Aug - Jan	Spreading	Along the lake bund
2	Alstona				
3.	scholaris	Tree	Dec -Mar	Round	Park areas, walkways
	Anogeissus				
4.	latifolia	Tree	May - July	Round / Oblong	Park areas, walkways
_	Barringtonia		March - May,		
5.	acutangula	Tree	Sept - Oct	Spreading	General park area
~	Bauhinia				Along the lake bund, General park
6.	purpurea	Tree	Sept - Nov	Oblong	area
_	Bauhinia	Small			
7.	racemosa	Tree	Mar -June	Oblong	Park areas, walkways
-	Bougainvillea		Throughout the		Along the lake bund, General park
8.	spectabilis	Shrub	year	Oblong / Round	area
-	Buchanania				
9.	lanzan	Tree	Jan - mar	Round	Park areas, walkways
	Carissa				
10.	spinarum	Shrub	Mar - May	Round	Along the lake bund
	Cardia				
11.	dichotoma	Tree	March - April	Round/ Oblong	Park areas, walkways
	Dalbergia				
12.	latifolia	Tree	August - Sept	Round	Park areas, walkways
	Dalbergia		March - Apri -		
13.	sisoo	Tree	June	Round	Park areas, walkways
	Diospyros				
14.	melanoxylon	Tree	Feb - April	Oblong	Park areas, walkways
	Dryptes				
15.	roxburghii	Tree	Mar - May	Round	Park areas, walkways
	Emblica				Along the lake bund, General park
16.	officinalis	Tree	June - July	Oblong	area
	Embryopteris				
17.	peregrina.	Tree	Mar - May	Spreading	Park areas, walkways
4.5	Erythrina				
18.	variegata	Tree	Feb - May	Oblong	Park areas, walkways
				Spreading	
19.	Ficus elastica	Tree	-	/Round	Park areas, walkways
20.	Ficus virens	Tree	Jan - May	Oblong	Park areas, walkways

			April - Aug	1	
	Gardenia		extended upto		Along the lake bund, General park
21.	jasminoides	Tree	Sept.	Oblong	area
	Gardenia			0	Along the lake bund, General park
22.	resinifera	Tree	Mar - June.	Oblong	area
	Grevillea				
23.	robusta	Tree	Feb - April	Oblong	Park areas, walkways
	Grewia				
24.	subinequalis	Tree	Apr - June	Round	Park areas, walkways
	Hibiscus rosa-		Throughout the		Along the lake bund, General park
25.	sinensis	Shrub	year	Round / Oblong	area
			More or less		
			throughout the		
26.	Ixora rosea	Tree	year	Oblong	Along the lake bund, walkways
	Jacaranda		700.		
27.	mimosaefolia	Tree	March - April	Round	Park areas, walkways
	Lagerstroemi				
28.	a parviflora	Tall Tree	June	Round / Oblong	Park areas, walkways
	Lawsonia	run rree	June		
29.	inermis	Shrub	April - July	Round	Along the lake bund
	Madhuca	00			
30.	longifolia	Tree	Feb - April	Round/Oblong	Park areas, walkways
	Millingtonia				
31.	hortensis	Tree	Oct - Dec.	Oblong/Round	Park areas, walkways
	Mimusops				
32.	hexandra	Tree	Sept - Nov	Oblong/Round	Park areas, walkways
	Moringa			0,	
33.	oleifera	Tree	Jan - April	Oblong	Along the lake bund, walkways
	Nerium		Throughout the	0	
34.	indicum	Shrub	year	Oblong / Round	Along the lake bund
	Peltophorum				
35.	pterocarpum	Tree	May - Sept	Oblong/Round	Park areas, walkways
	Pithecellobiu		, ,	0,	
36.	m ducle	Tree	Jan - Feb	Oblong.	Park areas, walkways
	Samanea			Spreading/Roun	
37.	saman	Tree	Mar - June.	d	Park areas, walkways
	Sapindus				
38.	emarginatus	Tree	Oct - Dec.	Oblong / Round	Park areas, walkways
	Sapium				
39.	sebiferum	Tree	June - Aug	Round	Park areas, walkways
	Soymida		Ŭ		
40.	febrifuga	Tree	Mar.	Round/Oblong	Park areas, walkways
	Syzygium			Oblong/Spreadi	, -, -, -
41.	cumini	Tree	Mar - May	ng.	Park areas, walkways
	Terminalia		- 1		, 1
42.	chebula	Tree	Mar - Oct	Round/Oblong	Park areas, walkways
	Thespesia		Throughout the	,	, 1
43.	populneoides	Tree	year	Round	Park areas, walkways

The Developmental Major Activities of Motijheel is given below:

		Q'ty
	Name of the	
S.No.	Developmental Activity	

1	De-silting	Total Lake
2	De-weeding	Total Lake
3	Sewage Treatment Plant – 2 MLD	2
4	Peripheral drain all around the lake	9 Km
5	Development of Bio- Engineering bunds	Total Lake
6	Pathways	22242 Sqm
7	Bathing Ghats surrounding Motijheel Lake	4
8	Development of parks	1
9	Toilet Blocks (4.0 x 4.5 m)	5
10	Toilet at Ghats (8.74 x 6.0 m) surrounding Motijheel Lake	6
11	Change Rooms (8.0 x 3.0 m) surrounding Motijheel Lake	6
12	Benches surrounding Motijheel Lake	50 Nos
13	Dustbins surrounding Motijheel Lake	150 Nos
14	Construction of Silt Traps for all inlets	5
15	Tree Plantation with Maintenance surrounding Motijheel Lake	1000 Nos.
		As per site requirement/
16	Electrical works Water Supply and	BOQ As per site requirement/
17	Sanitary works	BOQ

14. Development of Approach Roads

The proposed lake developmental activity will provide the development of path way and other facilities around the lake. Apart from these there is a peripheral road existing presently. It is proposed to develop this ring road in neat form along with the approach roads from different colonies surrounding the lake. The budgetary aspects and designs for these approach roads should be taken up separately which is not included in this DPR since it is not a part of lake developmental activity.

15. Approvals and Clearance required

List of approvals required with their time frame for Motijheel Lake restoration Project have been given in **Table 5-3**.

Table 3-3: Approvals and clearances						
Activity	Obligation	Departments Responsible	Estimated time Taken			
Construction	Permission for land use	Department of Town and	2 months			
	and construction activity	Country Planning				
Setting up Generator	No Objection Certificate					
and Sewage Pumping	to Establish and consent	Bihar pollution control	2 months			
Station and STP	to operate under water	board, East Champaran	2 11011115			
	and pollution control Acts					
Electricity	Sanction of power	Electricity board, Motihari	2 months			
	connection	Liectheity board, Mothan	2 11011113			

Table 5-3: Approvals and Clearances

16. Details of public consultation and the requirement of various components.

S. No	Name of the organization / department	Components
1	Bihar State Pollution Control Board	STP
2	Department of Environment,	STP
3	Water Resources Department	Complete water supply
4	Bihar Urban Infra Structure Development Corporation Ltd	Complete concepts
5	Motihari Nagar Parishad	Food Courts, Bathing Ghats, Dhobhi Ghats, Pathways, Parking
6	Forest Department	Tree Plantation
7	State /Central Ground Water Department	Wells & Intake wells
8	Bihar RajyaJalParishad	Water Supply line, Sewerage, Silt Traps construction, Peripheral Drain
9	PHED	Desilting, Deweeding, Peripheral Drain, Silt Traps construction,
10	Bihar State Electricity Board	Electrical approvals & Necessary permissions
11	Disaster management authority	Necessary Approvals for Development of Lake
12	Urban Local Bodies	Complete Civil Structures
13	Urban Development Authorities	Complete Civil Structures
14	Town Planning Department	Complete Civil Structures

17. OPERATION & MAINTENANCE PLAN

17.1 INSTITUTIONAL FRAMEWORK (Organization and Operation)

Strategy

17.1.1 Operation & Maintenance institution

The developed and rejuvenated tanks needs continuous O & M immediately post completion of the development. The Prime contractor who undertakes the work shall maintain the tank for a period up to defects liability period or for a period of one year minimum. The local neighborhoods and area should be involved in the formulation of committee for O&M. If strong community exists, a committee can be formed with the Government official as the secretary. As a social and environmental initiative, the project O&M needs to be supported by MNP. A small portion of the O&M can be met through some user fees after the tank and its development are fully complete and to the satisfaction of the users. A committee of intelligent citizens, NGOs, Academics and business persons, Government needs to be created for the overall advisory and monitoring. Within the MNP, it maybe advisable to monitor by the environment cell under the special commissioner for tackling environmental issues and O&M of the lake.

17.1.2 Outline of Existing Billing and Collection

As this is social and environmentally significant project, there has been precedent of collection and billing for Morning Joggers, lake Visitors, Parking, & Boating, etc.,

17.1.3 Project Operation and Maintenance (O&M)

The project operation and maintenance requires regular upkeep of the facilities and the infrastructure developed under the tank rejuvenation project. Some of the key O&M activities include:

- 1. Maintenance of engineering components like cleaning of silt traps, drains etc.
- 2. Periodic monitoring of quantity of water flowing in to the tank.
- 3. Clearing solid waste and garbage (including bags, papers, etc) reaching the tank through the channels or from the visitors or illegal dumping.
- 4. Regular monitoring of the water coming in through the feeder channels, catchments, STPs and tank water.
- 5. Maintenance of Plantings and garden area including putting the watering system to work.
- 6. Regular disinfection of the lake and surrounding including the spraying of fungicides for bio remedial measures.
- 7. Daily sweeping and cleaning
- 8. Regular maintenance of the play equipment, lighting, etc., if any

- 9. Surveillance and security from vandalism and other illegal activity.
- 10. Monitoring of the quality of water Periodic monitoring of quality of water at least once in 6 months is required.
- 11. Monitoring of ecological parameters like fish, birds etc has to be done periodically
- 12. Bioremediation Spraying of chemicals once in 6 months is required.
- 13. Maintenance of vegetation
- 14. Solid Waste management system litterbins, public toilets, drinking water, etc.,
- 15. Security Watch / ward for safe keep

Daily, recurrent, frequently scheduled service and monitoring of the facilities is essential to meet the needs of ever-increasing user groups, to support new and existing recreation programs.

The overall objective is "to determine the most cost effective and efficient manner of providing high quality management and maintenance of the proposed facility". This objective can be achieved by following below mentioned steps.

- TURF CARE GRASS Grass height maintained according to species and variety of grass. Mowed at least once every five working days, but may be as often as once every three working days. Weed control should be practiced so that not more than one percent of the surface has weeds present.
- 2. FERTILIZER Adequate fertilizer level to ensure that all plant materials are healthy and growing vigorously. Amounts depend on species, length of growing season, soils and rainfall. Distribution should ensure an even supply of nutrients for the entire year. Trees, shrubs and flowers should receive fertilizer levels to ensure optimum growth.
- 3. IRRIGATION Sprinkler irrigated. Manual systems could be considered adequate under plentiful rainfall circumstances and adequate staffing. Frequency of use following rainfalls, temperature, seasonal length and demands of plants material.
- SHRUB BEDS Landscape bed areas should be kept in a weed, leaf and debris-free condition. Shrubs should be trimmed to maintain desired shape and to maintain natural growth habit of plan species.

- 5. LITTER CONTROL Minimum of once per day, 7 days per week. Extremely high visitation may increase the frequency. Receptacles should be plentiful enough to hold all trash generated between servicing
- PRUNING Usually done at least once per season unless species planted dictate more frequent attention. Sculptured hedges or high growth species may dictate a more frequent requirement than most trees and shrubs in natural, growth style plantings.
- 7. DISEASES & INSECT CONTROL Usually done when disease or insects are inflicting noticeable damage, reducing vigor of plant materials or could be considered a bother to the public. Some preventative measures may be utilized such as systemic chemical treatments, cultural prevention of disease problems can reduce time spent in this category.
- 8. LIGHTING Replacement on a scheduled frequency and/ or repair of fixtures when observed or reported not working
- 9. SURFACES Should be cleaned, repaired, repainted or replaced when appearance has noticeably deteriorated.
- 10. REPAIRS Repairs to all park elements of the design should be done immediately upon discovery provided replacements parts and technicians are available to accomplish the job. When disruption to the public might be major, repairs may be postponed to a time period that is less disruptive
- 11. INSPECTION Inspections of this area should be done daily by a trained staff member.
- 12. RESTROOMS When in seasonal use should be maintained at least once per day as long as they are open to public. High use may dictate two servicing's per day. Servicing period should ensure an adequate supply of paper and that restrooms are reasonably clean and free from foul odors.
- 13. SPECIAL FEATURES Should be maintained for safety, function and high quality appearance as per established design.

The lake area shall be declared as "litter free zone" and necessary facilities need to be

created for dumping.

17.1.4 Performance Metrics:

The performance metrics which are vital for the upkeep of the environment include the quality of water, the greening and enrichment of bio diversity mainly through flora and fauna studies. All these metrics shall be developed on completion of the project for the operation and maintenance. Many of these parameters are a matter of painstaking research and currently there is not much data available to develop a full fledged model.

17.1.5 Man Power for operation and maintenance (O&M)

For maintaining the gardens, other vegetative cover around the Lake, 20 males have been recommended. To maintain cleanliness of the toilet blocks, five Toilet attendants have been recommended. Totally 25 people are estimated for the maintenance of facility.

As regards to the cost of maintenance of power supply, pumping, disinfection and sanitation, & other miscellaneous works like maintenance of silt trap and screen barrier etc., lump sum provision has been made. An Increase in expenditure to the tune of 10% for every year may be anticipated.

8.1.6 Local contribution:

The local community may be willing to offer their time on pro bono basis for the O&M. These may not be measured directly in financial terms. These will increase participation of the community and bring accountability of operators/contractors as well as watch dog for the government. Voluntary contribution can be channelized on continual basis for better upkeep. This can be followed with branding exercise to allow for citizen, corporate contributions as well voluntary social work to be included in the O&M. The estimated annual cost for Operation and Maintenance Plan of the proposed project is given in **Table 8.1**.

S.No	Description	Qty	Units
Α	Manpower		
1	Security Staff	4	Nos
2	Ticket counter staff	2	Nos
3	Staff at Facility	10	Nos
4	Sweepers cum Gardeners	4	Nos
5	Fitter (Water Supply & Sewerage System)	2	Nos
6	Environmental Management Cell		
I	Project Manager cum Horticulturist	1	Nos
ii	Technician cum Electrician	2	Nos
В	Services Maintenance		
1	Water Supply	LS	LS
2	Sewerage @ 0.25 % of Sewerage Cost per annum		
3	Drainage – Desilting	LS	LS
4	Solid waste - Replacement of Collection Bins once in two years		
5	Electricity Charges	465	KWH
6	Electricity Maintenance @ 1% of Electrical Cost per annum		
7	Solar Power Lighting Systems - Replacement of Battery once in two years		
С	Other Maintenance Cost		
1	Renovation of civil structures once in Two years		
2	Green Area Development & Sprinkler system for lawn @1% of its cost		
3	Gardening		
а	Bio manure @0.5kg/tree once in 3months	194	Kg
b		219	Kg
С		194	Kg
d		219	Kg
4	Environmental Monitoring		
а		5	Location
b			
i		MLD	
i		2	Location
ii	Surface Water	5	Location

Table 8.1. Required Resources for Operation & Maintenance

SITE OFFICE ,COMPUTOR, OPERATOR AND VEHICLE

If the tendered cost is more than Rs. Five crores, contractor will have to provide Air conditioned site office (A/c) with one attendant on is site with furniture and toilet along with a computer with operator and also a four wheeled light motor vehicles (Not more than Three year old) with driver & fuel for the use of Client's Engineer (Average 3000 km/month) till the completion of work including testing and trial run and performance period for which contractor shall make sufficient provision in his rates as below.

Contract Value	Site office(A/c)	Four wheel LMV (A/c) (Capacity not less than 1800 CC)	Computer
More than 5.00 crore to Rs. 25.00 crore	One (20 sq/m)	One	One Desktop with operator
SECTION 4 CONTRACT DATA (PROFORMA OF SCHEDULES)

PROFORMA OF SCHEDULES

(Operative Schedules to be supplied separately to each intending tenderer)

SCHEDULE 'A'

Schedule of quantities

SI.	Description of		BILL (OF QUANTITY		Amount
No.	Item(with brief specification and	Quantity Unit		Rate		
	reference to book of specification)			In figure	In words	
1	2	3	4	5	6	7
		ile		2h		

SCHEDULE 'B'

Schedule of materials to be issued to the contractor.

S. No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of Issue
1	2	3	4	5

SCHEDULE 'C'

Tools and plants to be hired to the contractor

SI. Description No.		Hire charge per day	Place of Issue	
1	2	3	4	

SCHEDULE 'D'

Extra schedule for specific requirements/ document for the work, if any.

SCHEDULE 'E'

Schedule of component of Cement, Steel, other Materials, Labour etc. for price escalation.

CLAUSE 10 CC	- As per SBD, GoB
Component of Cement- expressed as percent of total value of work.	Рс
Component of Steel- expressed as percent of total value of work.	Ps
Component of civil (except cement & steel)/ Electrical construction Materials expressed as percent of total value of work-	Pm
Component of Bitumen - expressed as percent of total value of work.	Pb
Component of Labour- expressed as percent of total value of work.	P1
Component of P.O.L. – expressed as percent of total value of work.	Pf
Component of Plant & Machinery – expressed as percent of total value of work.	Рр

SCHEDULE 'F'

Reference to General Condition of Contract

Name of work	As per NIT
Estimated cost of work	As per NIT
Earnest money	As per NIT
Performance Bank Guarantee	2% of tendered value
Security Deposit	8% of tendered value (to be deducted from RA Bill)
Defect Liability period	1 Year from the date of completion of project.
Rate of Interest	Prevailing lending rate of interest floated by SBI at the time of first installation of Mobilization Advance

GENERAL RULES AND : Executive Engineer, BUIDCo. Motihari

DIRECTIONS

Definitions:

2(v)	Engineer-in-Charge	Executive Engineer, BUIDCo Motihari
2(x)	Percentage on cost of materials and labour to cover all overheads and profits.	10 %

2(xi)	Department & Employer	Executive Engineer, Motihari Bihar Urban Infrastructure Development Corporation Ltd. (BUIDCo) (A Govt. of Bihar Undertaking)		
9(ii)	Standard PWD Contract Form	PWD 2/3 as modified & corrected up		
0				

Clause 1

i)	Time allowed for submission of performance Guarantee from the date of issue of letter of acceptance, in days	<u>15days</u>
ii)	Maximum allowable extension beyond the period provided in i) above in days	<u>0days</u>

Clause 2

Authority for fixing compensation Chief Engineer (North) BUIDCo under clause 2.

Clause 2A

Whether Clause 2A shall be applicable N/A

Clause 5

Number of days from the date of issue of
notice to start.07 daysMile stone(s) as per table given below:

Table of Mile Stone(s)

SI. No.	Description of Milestone(Physical)	Time allowed in days (from date of start)	Amount to be with-held in case of non achievement of milestone
1.	1/8 TH (of whole work)		
2.	3/8 TH (of whole work)		
3	3/4 [™] (of whole work)		
4.	Full		

OR

SI. No.	Financial Progress	Time allowed (from date of start)	Amount to be with-held in case of non achievement of milestone
1.	1/8 [™] (of whole work)	1/4 TH (of whole work)	In the event of not achieving
2.	3/8 [™] (of whole work)	1/2 [™] (of whole work)	 the necessary progress as assessed from the running
3.	3/4 TH (of whole work)	3/4 TH (of whole work)	payments, 1% of the tendered value of work will be withheld
4.	Full	Full	for failure of each milestone.

Time allowed for execution of work

12 Months

Authority to give fair and reasonable extension of time for completion of work.

Chief Engineer (North), BUIDCo.

Clause	e 7	Gross work to be done together payment/ adjustment of advanc collected, if any, since the last for being eligible to interim pay	es for material such payment	<u>Not Applicable</u>
Clause	e 10CC	Cluase 10CC to be applicable ir stipulated period of completion period shown in next column		As per SBD, GoB
Clause	e 11	Specifications to be followed fo work	r execution of	<u>Bihar PWD/ CPWD</u>
Clause	e 12	Deviation, variation Extent and pricing.		As per P.W.D. Code clause 182A, 292XII, 293XVII & 294XVI
Clause	e 16			
		Competent Authority for deciding reduced rates.	(Chief Engineer (North), BUIDCo
•	The fo	ollowing document also forms pa	rt of the contract.	Special Condition attached.
•	The la	aw, which applies to the contract,	is The Law of Unio	on of India.
•	The court of jurisdiction		<u>Patna, Bihar</u>	
•	The L	anguage of contract document	English	
•	The li	mit of sub-contracting	Nil	
•	The C	Currency of the Contract is	Indian Rupees	
•	Place	of Arbitration	Patna	

SECTION 5 SPECIAL CONDITION OF CONTRACT (Condition of Particular Application)

SECTION 6 TECHNICAL SPECIFICATION (Along with Basic drawings)

(Attached)

SECTION 7 BILL OF QUANTITY (Attached)

BILL OF QUANTITIES

Preamble

- 1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, Conditions of Contract, Technical Specifications and Drawings.
- 2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices tendered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
- 3. The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, labour supervision, materials, erection, maintenance, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract.
- 4. The rates and prices shall be quoted entirely in Indian Currency.
- 5. A rate whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no Items are provided the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
- 6. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no Items are provided the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
- 7. General directions and descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. References to the relevant sections of the contract documentation shall be made before entering rates or prices against each item in the Bill of Quantities.
- 8. The method of measurement of completed work for payment shall be in accordance with the specification issued by the department time to time.
- 9. Errors will be corrected by BUIDCo for any arithmetic errors pursuant to Clause 29 of the Instructions to Bidders.

SI.	Description of Item	Quantity	Unit	Rat		Amount
No	(with brief specification and reference to book			In Figure	e In Words	
	of specification)					
	Aitia		کا جُ			

BILL OF QUANTITIES

Note :

- 1. Item for which no rate or price has been entered in will not be paid for by BUIDCo when executed and shall be deemed covered by the other rates and prices in the bill of quantities
- 2. Unit rates and prices shall be quoted by the bidder in Indian rupee
- 3. Where there is a discrepancy between the rate in figures and words, the rates in words will govern.
- 4. Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by quantity, the unit rate quoted shall govern

SECTION 8 SECURITIES AND OTHER FORMS (to be filled by Bidder/Employer)

BID SECURITY (BANK GUARANTEE UNCONDITIONAL)

WHEREAS,	[name of Bidder] (hereinafter called "the
Bidder") has submitted his Bid dated	[date] for the construction of
Iname	e of Contract hereinafter called "the Bid"].

KNOW ALL PEOPLE by these presents that We _____ [name of Bank] of _____ [name of country] having our registered office at _____ (hereinafter called "the Bank") are bound unto <u>BUIDCo. Ltd. (hereinafter called "the Employer") in the sum of ______</u>*for which payment well and truly to be made to the said Employer by the Bank itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____day of _____,20_.

THE CONDITIONS of this obligation are:

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

OR

- (2) If the Bidder having been notified to the acceptance of his bid by the Employer during the period of Bid validity :
 - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
 - (b) fails or refuses to furnish the Performance Security, in accordance with the Instruction to Bidders; or
 - (c) Does not accept the correction of the Bid Price pursuant to Clause 27.

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

stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date.

DATE	SIGNATURE
WITNESS	SEAL

[Signature, name and address]

- * The Bidder should insert the amount of the guarantee in words and figures denominated in Indian Rupees. This figure should be the same as shown in Clause 16.1 of the Instructions to Bidders.
- ** 45 days after the end of the validity period of the Bid. Date should be inserted by the Employer before the Bidding documents are issued.

PERFORMANCE BANK GUARANTEE

То			
		[name of Employer]	
		[address of Employer]	
w	HEREAS	[name and ad	ddress of Contractor]
(hereafter	called "the Contracto	r") has undertaken, in pursuance of Contra	act No.
	dated	to execute	[name of

Contract and brief description of Works] (hereinafter called "the Contract").

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

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

NOW THEREFORE we hereby affirm the	at we are the Guarantor and responsible to you
on behalf of the Contractor, up to a total o	f
[amount of guarantee]*	(in words), such sum being
payable in the types and proportions of curren	cies in which the Contract Price is payable, and
we undertake to pay you, upon your first writte	n 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 s	show grounds or reasons for your demand for
the sum specified therein.	

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

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

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

Signature and Seal of the guarantor
Name of Bank
Address
Date

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

UNCONDITIONAL BANK GUARANTEE FOR ADVANCE PAYMENT

То

*

[name of Employer] [address of Employer] [name of Contractor]

Gentlemen :

In accordance with the provisions of the Conditions of Contract, sub-clause 51.1 ("Advance payment") of the above-mentioned Contract, _________ [name and address of Contractor] (hereinafter called "the Contractor") shall deposit with_______[name of Employer] a bank guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of_______[amount of Guarantee]*______[in words].

We further agree that no change or addition to or other modification of the terms of the Contractor or Works to be performed there under or any of the Contract documents which may be made between _____ [name of Employer] 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 remain valid and in full effect from the date of the advance payment under the Contract until _____ [name of Employer] receives full repayment of the same amount from the Contractor.

Yours truly,

Signature and Seal :
Name of Bank /Financial Institution
Address :
Date :

An amount shall be inserted by the Bank or Financial Institution representing the amount of the Advance Payment, and denominated in Indian Rupees.

INDENTURE FOR SECURED ADVANCES

FORM 31

(for use in case in which the contract is for finished work and the contractor has entered into an agreement for the execution of a certain specified quantity of work in a given time)

This indenture made the	day of	_, 20				
BETWEEN	_(hereinafter called the contractor which of	expression				
shall where the context so admits o	or implies be deemed to include his	executors,				
administrators and assigns) or the one part and the Employer of the other part.						

Whereas by an agreement dated _______(hereinafter called the said agreement) the contractor has agreed.

AND WHEREAS the contractor has applied to the Employer that he may be allowed advance on the security of materials absolutely belonging to him and brought by him to the site of the works the subject of the said agreement for use in the construction of such of the works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges)

AND WHEREAS the Employer has agreed to advance to the Contractor the sum of Rupees_______on the security of materials the quantities and other particulars of which are detailed in Accounts of Secured Advances attached to the Running Account bill for the said works signed by the Contractor on______and the Employer has reserved to himself the option of making any further advance or advances on the security of other materials brought by the Contractor to the site of the said works.

Now THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupees_______on or before the execution of these presents paid to the Contractor by the Employer (the receipt where of the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as a for said the Contractor doth hereby covenant and agree with the President and declare as follows :

- (1) That the said sum of Rupees______so advanced by the Employer to the Contractor as aforesaid and all or any further sum of sums advanced as aforesaid shall be employed by the Contractor in or towards expending the execution of the said works and for no other purpose whatsoever.
- (2) That the materials details in the said Account of Secured Advances which have been offered to and accepted by the Employer as security are absolutely the Contractor's own propriety and free from encumbrances of any kind and the contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the Contractor indemnified the Employer against all claims to any materials in respect of which an advance has be made to him as aforesaid.
- (3) That the materials detailed in the said account of Secured Advances and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereafter called the said materials) shall be used by the Contractor solely in the Execution of the said works in accordance with the directions of the Engineer.

- (4) That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and on his own responsibility and shall at all times be open to inspection by the Engineer or any officer authorized by him. In the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the Contractor will forthwith replace the same with other materials of like quality or repair and make good the same required by the Engineer.
- (5) That the said materials shall not be any account be removed from the site of the said works except with the written permission of the Engineer or an officer authorized by him on that behalf.
- (6) That the advances shall be repayable in full when or before the Contractor receives payment from the Employer of the price payable to him for the said works under the terms and provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done than on the occasion of each such payment the Employer will be at liberty to made recovery from the Contractor's bill for such payment by deducting there from the value of the said materials that actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.
- (7) That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing of the Employer shall immediately on the happening of such default be repayable by the Contractor to be the Employer together with interest thereon at twelve per cent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs, charges, damages and expenses incurred by the Employer in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the Employer to reply and pay the same respectively to him accordingly.
- (8) That the Contractor hereby charges all the said materials with the repayment to the Employer of the said sum of Rupees ________ and any further sum of sums advanced as aforesaid and all costs, charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the power contained therein if and whenever the covenant for payment and repayment here in before contained shall become enforceable and the money owing shall not be paid in accordance there with the Employer may at by time thereafter adopt all or any of the following courses as he may deem best :
 - (a) Seize and utilise the said materials or any part thereof in the completion of the said works on behalf of the contractor in accordance with the provisions in that behalf contained in the said agreement debiting the contractor with the actual cost of effecting such completion and the amount due to the contractor with the value of work done as if he has carried it out in accordance with the said agreement and at the rests thereby provided. If the balance is against the contractor, he is to pay same to the Employer on demand.

- (b) Remove and sell by public auction the seized materials or any part there of and out of the moneys arising from the sale retain all the sums aforesaid repayable or payable to the Employer under these presents and pay over the surplus (if any) to the Contractor.
- (c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.
- (9) That except in the event of such default on the part of the contractor as aforesaid interest on the said advance shall not be payable.
- (10) That in the event of any conflict between the provisions of these present and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been here-in-before expressly provided for the same shall be referred to the Employer whose decision shall be final and the provision of the Indian Arbitration Act for the time being in force shall apply to any such reference.

Letter of Acceptance

(Letterhead paper of BUIDCo)

____(Date)

_____(Name and address of the Contractor)

Dear Sirs,

То

This is to notify you that your Bid dated______for execution of the ______(name of the contract and identification number, as given in the Instructions to Bidders) for the Contract Price of Rupees ______(_____) (amount in words and figures), as corrected and modified in accordance with the Instructions to Bidders¹ is hereby accepted by our agency.

We accept/ do not accept that ______be appointed as the Adjudicator². Your are hereby requested to furnish Performance Security, in the form detailed in Para 31.1 of ITB for an amount equivalent to Rs.______within 15 days of the receipt of this letter of acceptance valid up to 28 days from the date of expiry of defects Liability Period i.e. up to______and sign the contract, failing which action as stated in Para 31.3 of ITB will be taken.

Yours faithfully,

Authorized Signature Name and title of Signatory Name of Agency

¹Delete "corrected and" or "and modified" if only one of these actions applies. Delete as corrected and modified in accordance with the Instructions to Bidders, if corrections or modifications have not been affected.

²To be used only if the Contractor disagrees in his Bid with the Adjudicator proposed by the Employer in the "Instructions to Bidders".

Issue of Notice to proceed with the work

(Letter head of BUIDCo)

			(Date)
То	(Name and address	of th	e Contractor)
	(Name and address		ie contractory
Dear S	Sirs,		
-	Pursuant to your furnishing the requisite security as stipulated in g of the Contract for the construction of		
		_at	a Bid Price of
	You are hereby instructed to proceed with the execution of the sa dance with the contract documents.	id w	orks in

Yours faithfully,

(Signature, name and title of signatory authorized to sign ob behalf of Employer)

Agreement Form

Agreement

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

Whereas BUIDCo is desirous that the Contractor execute

(name and identification number of Contract) (hereinafter called "the Works") and BUIDCo has accepted the Bid by the Contractor for the execution and completion of such works and the remedying of any defects therein, at a cost of Rs.

NOW THIS AGREEMENT WITNESSETH as follows :

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to and they shall be deemed to form and be read and construed as part of this Agreement.

2. In consideration of the payments to be made by BUIDCo to the Contractor as hereinafter mentioned, the Contractor hereby covenants with BUIDCo to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the contract.

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

4. The following documents shall be deemed to form and be ready and construed as part of this Agreement viz.

- (i) Letter of Acceptance
- (ii) Notice to proceed with the works;
- (iii) Contractor's Bid
- (iv) Condition of Contract : General and Special
- (v) Contract Data
- (vi) Additional condition
- (vii) Drawings
- (viii) Bill of Quantities and
- (ix) Any other documents listed in the Contract Data as forming part of the Contract.

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

affixed	The Common Seal of affixed in the presence of :							was hereunto	
	Signed,	Sealed	and	Delivered	by	the	said		
in the	presence o	f:							

UNDERTAKING

I, the undersigned do hereby undertake that our firm M/s ______agree to abide by this bid for a period ______days for the date fixed for receiving the same and it shall be binding on us and may be accepted at any time before the expiration of that period.

(Signed by an Authorised Officer of the Firm)

Title of Officer

Name of Firm

DATE

SECTION 9 DOCUMENTS TO BE FURNISHED BY BIDDER) (Attached)