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W-2

GOVERNMENT OF UTTAR PRADESH

UTTAR PRADESH SODIC LAND RECLAMATION III PROJECT

IFB Number : 06/2016-17

Package No. 06/W-2

NATIONAL COMPETITIVE BIDDING

(CIVIL WORKS)

NAME OF WORK	:	REHABILITATION OF JOR DRAIN FROM KM. 0.000 TO KM. 0.700 IN DISTT. KANNAUJ		
PERIOD OF DOWNLOAD OF BIDDING DOCUMENT	:	FROM	18.11.2016	17:00 HOURS
		TO	17.12.2016	17:00HOURS
LAST DATE AND TIME FOR RECEIPT OF BIDDING DOCUMENT	:	DATE	18.12.2016	
		TIME	17.00 HOURS	
TIME AND DATE OF PREBID CONFERENCE	:	DATE	29.11.2016	
	:	TIME	15:00 HOURS	
TIME AND DATE OF OPENING TECHNICAL BIDS	:	DATE	20.12.2016	
		TIME	2:30 HOURS	
PLACE OF OPENING BIDS	:	Office of Executive Engineer Drainage Division, Aligarh		
OFFICER INVITING BIDS	:	Office of Executive Engineer Drainage Division, Aligarh		

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INVITATION FOR BID

(IFB)

GOVERNMENT OF UTTAR PRADESH
U.P. SODIC LAND RECLAMATION PROJECT

INVITATIONS FOR BIDS (IFB)

NATIONAL COMPETITIVE BIDDING

Date :

Bid No.: 06/2016-17

1. The Government of India has received a credit from the International development Association/ loan from the International Bank for Reconstruction & Development towards the cost of UPSLRPIII Project and intends to apply a part of the funds to cover eligible payments under the contracts for construction of works as detailed below. Bidding is open to all bidders from eligible source countries as defined in the IBRD Guidelines for Procurement. Bidders from India should, however, be registered with the Government of INDIA or other State Government/Government of India, or State/Central Government Undertakings. Bidders are advised to note the minimum qualification criteria specified in Clause 5 of the instructions to Bidders to qualify for the award of the contract.
2. The Executive Engineer, Drainage Division, Aligarh invites bids for the construction of works detailed in the table. The bidders may submit bids for any or all of the works indicated in the table below.
3. Bidding documents may be seen and downloaded by interested eligible bidders from the website <http://etender.up.nic.in> w.e.f. **18.11.2016 5:00 PM to 17.12.2016 5:00 PM** and document cost as mentioned will have to be paid in the form of D.D. drawn on any schedule bank as indicated. Interested bidders may obtain further information at the same address. Bidding documents can be downloaded from website www.upbsn.org and cost of bidding document should be deposit by cash or through demand draft at the time of bid submission .
4. Bids documents must be accompanied with **Earnest Money** of the amount specified. Earnest money will have to be paid in the form as specified in the bidding document and shall be valid for 90 days beyond the validity of the bid. Demand Draft for Bid document fee and Earnest money along with required supporting document hard copy will necessarily be deposited in the **Office of Executive Engineer, Drainage Division, Aligarh** on or before **18.12.2016 upto 5:00 PM** and scanned copy of the same will be uploaded with **e-Tender**.
5. Bids must be delivered by e-Tendering process only on the <http://etender.up.nic.in> web site by **17.12.2016 upto 5:00 PM**. The Technical Bids will be opened on Date :**20.12.2016 at 2:30 PM in The Office of Executive Engineer, Drainage Division, Aligarh**. The financial bids shall be opened after

Technical Bids Evaluation. Date and time of which will be intimated in due course of time.

6. A pre-bid meeting will be held on 29.11.2016 at 15:00 hrs. at the office of Executive Engineer, Drainage Division, Aligarh to clarify the issues and to answer questions on any matter that may be raised at that stage as stated in Clause 9.2 of 'Instructions to Bidders' of the bidding document.

Other details can be seen in the bidding documents.

The address for communication is as under:

- (a) Name & Designation of Officer : Vikas Agrawal, Executive Engineer
 (b) Official Address: Drainage Division, Aligarh
 (c) Email : eedrainaligarh@gmail.com
 (d) Telephone : 0571-2523164

TABLE

Seal of office

Package No.	Name of work	Approximate value* of work (Rs.)	Bid security* (Rs.)	Cost of document Including Vat (Rs.)	Period of completion
1	2	3	4	5	6
01/W-2	REHABILITATION OF JOR DRAIN FROM KM. 0.000 TO KM. 0.700 IN DISTT. KANNAUJ	Rs 16.98 Lacs	Rs 0.34 lacs	Rs 2300.00	03 months

Section I. Instructions to Bidders
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Instructions to Bidders (ITB)

A. General

- 1. Scope of Bid**
- 1.1 The Employer as defined¹ in Section II “Bidding Data Sheet” (BDS), invites bids for the **REHABILITATION OF JOR DRAIN FROM KM. 0.000 TO KM. 0.700 IN DISTT. KANNAUJ**, as described in the BDS and Section VI, “Special Conditions of Contract” (SCC). The name and identification number of the Contract are provided in the BDS and the SCC.
- 1.2 The successful Bidder shall be expected to complete the Works by the Intended Completion Date specified in the BDS and SCC 1.1 (r).
- 1.3 Throughout these Bidding Documents:
- (a) the term “in writing” means communicated in written form (e.g. by mail, e-mail, fax, telex,) with proof of receipt;
 - (b) if the context so requires, “singular” means “plural” and vice versa; and
 - (c) “day” means calendar day.
- 2. Source of Funds**
- 2.1 The Government of India, intends to apply part of the funds of a loan from the World Bank, as defined in the BDS, towards the cost of the Project, as defined in the BDS, to cover eligible payments under the Contract for the Works. Payments by the World Bank shall be made only at the request of the Borrower and upon approval by the World Bank in accordance with the Loan Agreement, and shall be subject in all respects to the terms and conditions of that Agreement. Except as the World Bank may specifically otherwise agree, no party other than the Borrower shall derive any rights from the Loan Agreement or have any rights to the loan proceeds.
- 2.2 The loan agreement prohibits a withdrawal from the loan account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Bank, is prohibited by a decision of the United Nations Security Council, taken under Chapter VII of the Charter of the United Nations.

¹ See Section V, “General Conditions of Contract,” Clause I. Definitions.

3. Fraud and Corruption

3.1 It is the Bank's policy to require that Borrowers (including beneficiaries of Bank loans), as well as bidders, suppliers, and contractors and their subcontractors under Bank-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts.² In pursuance of this policy, the Bank:

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice"³ is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - (ii) "fraudulent practice"⁴ is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
 - (iii) "collusive practice"⁵ is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - (iv) "coercive practice"⁶ is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - (v) "obstructive practice" is
 - (aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt,

² *In this context, any action taken by a bidder, supplier, contractor, or a sub-contractor to influence the procurement process or contract execution for undue advantage is improper.*

³ *"another party" refers to a public official acting in relation to the procurement process or contract execution]. In this context, "public official" includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.*

⁴ *a "party" refers to a public official; the terms "benefit" and "obligation" relate to the procurement process or contract execution; and the "act or omission" is intended to influence the procurement process or contract execution.*

⁵ *"parties" refers to participants in the procurement process (including public officials) attempting to establish bid prices at artificial, non competitive levels.*

⁶ *a "party" refers to a participant in the procurement process or contract execution.*

fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

- (bb) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under sub-clause 3.1 (e) below.
- (b) will reject a proposal for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question;
- (c) will cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a beneficiary of the loan engaged in corrupt, fraudulent, collusive, or coercive practices during the procurement or the execution of that contract, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur;
- (d) will sanction a firm or individual, including declaring ineligible, either indefinitely or for a stated period of time, to be awarded a Bank-financed contract if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for, or in executing, a Bank-financed contract; and
- (e) will have the right to require that a provision be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers, and contractors and their sub-contractors to permit the Bank to inspect their accounts and records and other documents relating to the bid submission and contract performance and to have them audited by auditors appointed by the Bank.

3.2 Furthermore, bidders shall be aware of the provision stated in GCC Sub-Clause 60.

4. Eligible Bidders

4.1 A Bidder, and all parties constituting the Bidder, may have the nationality of any country, subject to the provisions of Section III, Eligible Countries. A Bidder shall be deemed to have the

nationality of a country if the Bidder is a citizen or is constituted, incorporated, or registered and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors.

- 4.2 A Bidder shall not have a conflict of interest. All Bidders found to have conflict of interest shall be disqualified. Bidders may be considered to have a conflict of interest with one or more parties in this bidding process, if they are associated, or has been associated in the past, directly or indirectly, with the consultant or any other entity that has prepared the design, specifications, and other documents for the Project or being proposed as Engineer-in-charge for the Contract. A firm that has been engaged by the Borrower to provide consulting services for the preparation or supervision of the Works, and any of its affiliates **shall not be eligible to bid.**
- 4.3 A Bidder that is under a declaration of ineligibility by the Bank in accordance with ITB Clause 3, at the date of contract award, shall be disqualified. The list of such debarred firms is available at the electronic address **specified in the BDS.**
- 4.4 A firm that has been determined to be ineligible by the Bank in relation to the Bank Guidelines On Preventing and Combating Fraud and Corruption in Projects Financed by IBRD Loans and IDA Credits and Grants shall be not be eligible to be awarded a contract.
- 4.4 Government-owned enterprises in the Employer's country may be eligible only if they can establish that they (i) are legally and financially autonomous, (ii) operate under commercial law, and (iii) that they are not a dependent agency of the Borrower or Sub-Borrower or Employer.
- 4.5 Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer, as the Employer shall reasonably request.

5. Qualifications of the Bidder

- 5.1 All bidders shall provide in Section IV, "Form of Bid, Qualification Information, Letter of Acceptance, and Agreement," a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary, as further elaborated in ITB Clause 5.3(k).
- 5.2 In the event that prequalification of potential bidders has been undertaken, only bids from prequalified bidders shall be

considered for award of Contract. These qualified bidders should submit with their bids any information updating their original prequalification applications. The update or confirmation should be provided in Section IV.

With the updated information the bidder must continue to be qualified in accordance with the criteria laid down in the prequalification document. All bidder shall also furnish the information for the following in Section IV irrespective of the bidders being pre-qualified:

- (i) Power of Attorney.
- (ii) Evidence of access to or availability of credit facilities certified by bankers.
- (iii) Details as stipulated in clause 5.3 (g) to (k)

5.3 If the Employer has not undertaken prequalification of potential bidders, all bidders shall include the following information and documents with their bids in Section IV, unless otherwise **stated in the BDS**:

- (a) copies of original documents defining the constitution or legal status, place of registration, and principal place of business of the Bidder; written power of attorney of the signatory of the Bid to commit the Bidder;
- (b) total monetary value of construction works 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 work under way 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;
- (e) qualifications and experience of key site management and technical personnel proposed for the 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 adequacy of working capital for this Contract (access to line(s) of credit and availability of other financial resources);

- (h) authority to seek references from the Bidder's bankers;
 - (i) information regarding any litigation, current or during the last five years, in which the Bidder was/is involved, the parties concerned, and the disputed amounts; and awards;
 - (j) proposals for subcontracting components of the Works amounting to more than 10 percent of the Contract Price. The ceiling for sub contractor's participation is **stated in the BDS** [*for each the qualification and experience of the identified sub-contractor in the relevant field should be annexed. No vertical splitting of work for subcontracting is acceptable*]
 - (k) the proposed methodology and program of construction including Environment Management Plan, backed with equipment, materials and manpower 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.
- 5.4 [*Where it is proposed to accept Joint Ventures, incorporate all changes as indicated at the end of this document; otherwise state here as **'Bids from Joint ventures are not acceptable'**.*]
- 5.5 To qualify for award of the Contract, the bidder in its name should have, in the last five years⁷, as specified in the BDS, the following experience and licenses:
- A** (a) achieved in at least two financial years, a minimum annual financial turnover (in all cases of civil engineering construction works of similar nature only) as specified in BDS⁸;
 - (b) satisfactorily completed (not less than 90% of contract value), as prime Contractor (or as a sub-contractor duly certified by the employer / main contractor) at least one similar work of value not less than the amount specified in

⁷ Specify the financial years: they should be those immediately preceding the financial year in which the bids are received.

⁸ Usually not less than two times the estimated annual payments under the contract.

BDS⁹

- (c) executed in any one year, the minimum quantities of work specified in BDS¹⁰.
- (d) The contractor or his identified sub-contractor should possess required valid electrical license for executing the building electrification works and should have executed similar electrical works for a minimum amount as indicated in BDS in any one year.
- (e) The contractor or his identified sub-contractor should possess required valid license for executing the water supply/sanitary engineering works and should have executed similar water supply/sanitary engineering works for a minimum amount as stated in BDS in any one year.

5.5 B : Each bidder should further demonstrate & confirm:

- (a) availability for construction work, either owned, or on lease or on hire, of the key and critical equipment stated in the BDS including equipment required for establishing field laboratory to perform mandatory tests, as stated in the BDS;
- (b) availability for construction work a Contractor's Representative and other key technical personnel with adequate experience as stated in the BDS. The bidder must not have in his employment¹¹.
 - (i) the near relations (defined as first blood relations, and their spouses, of the bidder or the bidder's spouse) of persons listed in the BDS¹²;
 - (ii) without Government permission, any person who retired as gazetted officer within the last two years;
- (c) availability of liquid assets and/or credit facilities, net of other contractual commitments and exclusive of any advance payments which may be made under the Contract, of not less than the amount specified in the BDS¹³.

⁹ Usually not less than 80% of estimated value of contract;

¹⁰ Usually 80% of the estimated production rate in peak year of construction.

¹¹ Applicable as per guidelines of the government. Delete if not applicable

¹² Indicate the persons of controlling departments inviting bids

¹³ Usually the estimate of accumulated payments flow over 2 to 3 months availability to be certified by the Bankers in the specified format

- 5.5 C: **To qualify for a package of contract made 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 contracts.
- 5.6 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 5.5 A above.
- 5.7 Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity for construction work is equal to or more than the total bid value. The available bid capacity will be calculated as under:

$$\text{Assessed Available bid capacity} = (A * N * 1.5 - B)$$

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 financial year and the percentage escalation as stated in the BDS, 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 (period up to 6 months to be taken as half-year and more than 6 months as one year).
- B= Value, at the current price level, of existing commitments and on-going works to be completed during the period of completion of the works for which bids are invited.

Note : *The statements in Section II 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.*

- 5.8 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, affidavits and attachments submitted in proof of the qualification requirement;

- record of poor performance such as abandoning the works, not properly completion or financial failures etc.;
- consistent history of litigation or arbitration awards against the bidder or any partner of the joint venture.
- participated in the previous bidding (*if this is a re-bidding*) for the same work and had quoted unreasonably high bid price and could not furnish rational justification to the employer.

6. One Bid per Bidder

6.1 Each Bidder shall submit only one Bid. 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) shall cause all the proposals with the Bidder's participation to be disqualified.

7. Cost of Bidding

7.1 The Bidder shall bear all costs associated with the preparation and submission of his Bid, and the Employer shall in no case be responsible or liable for those costs.

8. Site Visit

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

B. Bidding Documents

- 9. Contents of Bidding Documents**
- 9.1 The set of Bidding Documents comprises the documents listed in the table below and addenda issued in accordance with ITB Clause 11:
- | | |
|---------------------|--|
| Invitation for Bids | |
| Section I | Instructions to Bidders |
| Section II | Bidding Data Sheet |
| Section III | Eligible Countries |
| Section IV | Forms of Bid, Qualification Information, Letter of acceptance, Agreement |
| Section V | General Conditions of Contract |
| Section VI | Special Conditions of Contract |
| Section VII | Specifications |
| Section VIII | Drawings |
| Section IX | Bill of Quantities |
| Section X | Forms of Securities |
-
- 10. Clarification of Bidding Documents**
- 10.1 A prospective Bidder requiring any clarification of the Bidding Documents may notify the Employer in writing at the Employer's address **indicated in the BDS**. The Employer shall respond to any request for clarification received earlier than 21 days¹⁴ prior to the deadline for submission of bids. Copies of the Employer's response shall be forwarded to all purchasers of the Bidding Documents, including a description of the inquiry, but without identifying its source.
- 10.2 Pre-bid Meeting
- 10.2.1 The bidder or his official representative is invited to attend a per-bid meeting, which will take place at the place and time stated in BDS.
- 10.2.2 The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 10.2.3 The bidder is requested to submit any questions in writing or by facsimile or email to reach the Employer not later than one week before the meeting.

¹⁴ *It may be necessary to extend the deadline for submission of bids if the Employer's response results in substantial changes to the Bidding Documents. See ITB Clause 11 below.*

10.2.4 Minutes of the meeting, including the text of the questions raised (without identifying the source of inquiry) and the responses given will be transmitted without delay to all purchasers of the bidding documents. Any modification of the bidding documents listed in Sub-Clause 9.1 which may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause 11 and not through the minutes of the pre-bid meeting.

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

11. Amendment of Bidding Documents

11.1 Before the deadline for submission of bids, the Employer may modify the Bidding Documents by issuing addenda.

11.2 Any addendum thus issued shall be part of the Bidding Documents and shall be communicated in writing to all purchasers of the Bidding Documents.¹⁵ Prospective bidders shall acknowledge receipt of each addendum in writing to the Employer.

11.3 To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer shall extend, as necessary, the deadline for submission of bids, in accordance with ITB Sub-Clause 21.2 below.

C. Preparation of Bids

12. Language of Bid

12.1 All documents relating to the Bid shall be in the English.

13. Documents Comprising the Bid

13.1 The Bid submitted by the Bidder shall comprise the following:

- (a) The Bid (in the format indicated in Section IV);
- (b) Bid Security, in accordance with ITB Clause 17, if required;
- (c) Priced Bill of Quantities;
- (d) Qualification Information Form and Documents;
- (e) Alternative offers where invited;

and any other materials required to be completed and submitted

¹⁵ *It is therefore important that the Employer maintain a complete and accurate list of recipients of the Bidding Documents and their addresses.*

by bidders, as **specified in the BDS**.

The documents listed in Section IV, VI, and IX of sub-clause 9.1 shall be filled in without exception.

13.2 Bidders bidding for this contract together with other contracts stated in the IFB to form a package will so indicate in the bid together with any discounts offered for the award of more than one contract.

14. Bid Prices

14.1 The Contract shall be for the whole Works, as described in ITB Sub-Clause 1.1, based on the priced Bill of Quantities submitted by the Bidder.

14.2 The Bidder shall fill in rates and prices and line item total (both in figures & words) for all items of the Works described in the Bill of Quantities along with total bid price (both in figures and words). Items for which no rate or price is entered by the Bidder shall 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.

14.3 All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, shall be included in the rates, prices, and total Bid price submitted by the Bidder.

14.4 Bidders may like to ascertain availability of excise/custom duty exemption benefits available in India to the contracts financed under World Bank loan/credits. They are solely responsible for obtaining such benefits which they have considered in their bid and in case of failure to receive such benefits for reasons whatsoever, the employer will not compensate the bidder (contractor). Where the bidder has quoted taking into account such benefits, he must give all information required for issue of certificates in terms of such notifications as per form attached to the Qualification Information in the bid. To the extent the employer determines the quantity indicated therein are reasonable keeping in view the bill of quantities, construction program and methodology, the certificates will be issued within 60 [sixty] days of signing of contract and no subsequent changes will be permitted. No certificate will be issued for items where no quantity/capacity of equipment is indicated in the statement. The bids which do not conform to the above provisions will be treated as non responsive and rejected. Any delay in procurement of the construction equipment/machinery/goods as a result of the above shall not be a cause for granting any extension

of time.”

14.5 The rates and prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract if **provided for in the BDS** and SCC and the provisions of Clause 47 of the General Conditions of Contract.

15. Currencies of Bid and Payment

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

16. Bid Validity

16.1 Bids shall remain valid for the period¹⁶ **specified in the BDS**. A bid valid for a shorter period shall be rejected by the employer as non-responsive.

16.2 In exceptional circumstances, prior to the expiry of the original bid validity, the Employer may request that the bidders extend the period of validity for a specified additional period. The request and the bidders’ responses shall be made in writing. If a Bid Security is requested in accordance with ITB Clause 17, it shall be extended up to 45 days after the deadline of the extended bid validity period. A Bidder may refuse the request without forfeiting the Bid Security. A Bidder agreeing to the request shall not be required or permitted to modify its Bid, except as provided in ITB Clause 16.3.

16.3 In the case of contracts in which the Contract Price is fixed (not subject to price adjustment), in the event that the Employer requests and the bidder agrees to the extension of the validity period, the contract price, if the bidder is selected for award shall be the bid price corrected as follows: The price shall be increased by the factor (value of factor B specified in BDS) for each week or part of a week that has elapsed between the expiration of the initial bid validity and the date of issue of letter of acceptance to the successful bidder. Bid evaluation shall be based on the Bid Price without taking the above correction into consideration.

17. Bid Security

17.1 If required in the BDS the Bidder shall furnish, as part of its Bid, a Bid security, in original form for the amount shown in BDS for this particular work.

17.2 This bid security shall be in favour of, as specified in BDS, in one of the following forms:

- A bank guarantee issued by a nationalized/scheduled bank located

¹⁶ *The period is a realistic time, usually 90 days, allowing for bid evaluation, clarifications, and the World Bank’s “no objection” (where awards of Contract are subject to prior review).*

in India or a reputed bank located abroad in the form given in Section VIII; or

- Certified cheque or Bank draft payable at as specified in Appendix.
- If the institution issuing the guarantee is located outside India, it shall be counter signed by a Nationalised/Scheduled bank located in India, to make it enforceable.

17.3 Bank guarantee issued as Bid security for the bid shall be valid for 90 days beyond the validity of the bid.

17.4 Any bid not accompanied by an acceptable Bid Security and not secured as indicated in Sub-Clause 17.2 and 17.3 above shall be rejected by the Employer as non-responsive.

17.5 The Bid security of unsuccessful bidders will be returned within 42 days of the end of the bid validity period specified in Sub-Clause 16.1.

The Bid Security of successful bidders will be discharged and returned when the bidder has signed the Agreement and furnished the required Performance Security.

17.6 The Bid Security may be forfeited:

- (a) if a Bidder withdraws/modifies/substitutes its bid during the period of bid validity specified by the Bidder on the Bid Submission Sheet, except as provided in ITB Sub-Clause 16.2; or
- (b) if the Bidder does not accept the correction of its Bid Price pursuant to ITB Sub-Clause 28.
- (c) if the successful Bidder fails within the specified time to:
 - (i) sign the Contract Agreement; or
 - (ii) furnish the required performance security .

18. Alternative Proposals by Bidders

18.1 Bidders shall submit offers that comply with the requirements of the bidding documents, including the basic technical design as indicated in the drawing and specifications. Alternatives will not be considered.

19. Format and Signing of Bid

19.1 The Bidder shall prepare one original of the documents comprising the Bid as described in ITB Clause 13, bound with

the volume containing the Form of Bid, and clearly marked "ORIGINAL." In addition, the Bidder shall submit copies of the Bid, in the number **specified in the BDS**, and clearly marked as "COPIES." In the event of discrepancy between them, the original shall prevail.

- 19.2 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder, pursuant to ITB Sub-Clause 5.3 (a). A copy of the legally valid authorization should be attached alongwith the bid. All pages of the Bid where entries or amendments have been made shall be initialed by the authorized person or persons signing the Bid.
- 19.3 The Bid shall contain no alterations or additions, except those to comply with instructions issued by the Employer, or as necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the Bid.
- 19.4 The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.

D. Submission of Bids

20. Submission, Sealing and Marking of Bids

- 20.1 Bidders may always submit their bids by mail or by hand. When so **specified in the BDS**, bidders shall have the option of submitting their bids electronically. Bidders submitting bids electronically shall follow the procedures **specified in the BDS**. The Bidder shall seal the original and all copies of the Bid in two inner envelopes and one outer envelope, duly marking the inner envelopes as "ORIGINAL" and "COPIES."
- 20.2 The inner and outer envelopes shall
- (a) be addressed to the Employer at the address¹⁷ **provided in the BDS;**
 - (b) bear the name and identification number of the Contract as **defined in the BDS** and SCC; and

¹⁷ *The receiving address should be an office that is staffed during normal working hours by personnel authorized to certify time and date of receipt and assure safekeeping until Bid opening. A post office address is not satisfactory. The address must be the same as the receiving address described in the Invitation for Bids.*

- (c) provide a warning not to open before the specified time and date for Bid opening as **defined in the BDS.**

20.3 In addition to the identification required in ITB Sub-Clause 20.2, the inner envelopes shall indicate the name and address of the Bidder to enable the Bid to be returned unopened in case it is declared late, pursuant to ITB Clause 22.

20.4 If the outer envelope is not sealed and marked as above, the Employer shall assume no responsibility for the misplacement or premature opening of the Bid.

21. Deadline for Sub-mission of Bids

21.1 Bids shall be delivered to the Employer at the address specified above no later than the time and date **specified in the BDS.**

21.2 The Employer may extend the deadline for submission of bids by issuing an amendment in accordance with ITB Clause 11, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline shall then be subject to the new deadline.

22. Late Bids

22.1 Any Bid received by the Employer after the deadline prescribed in ITB Clause 21 shall be returned unopened to the Bidder.

23. Withdrawal, Substitution and Modification of Bids

23.1 Bidders may withdraw, substitute or modify their Bids by giving notice in writing before the deadline prescribed in ITB Clause 21.

23.2 Each Bidder's withdrawal, substitution or modification notice shall be prepared, sealed, marked, and delivered in accordance with ITB Clauses 19 and 20, with the outer and inner envelopes additionally marked or "WITHDRAWAL," "SUBSTITUTION," OR "MODIFICATION" as appropriate.

23.3 No Bid may be substituted or modified after the deadline for submission of Bids.

23.4 Withdrawal of a Bid between the deadline for submission of bids and the expiration of the period of Bid validity specified in the Bidding Data or as extended pursuant to ITB Sub-Clause 16.2 may result in the forfeiture of the Bid Security pursuant to ITB Clause 17.

23.5 Bidders may only offer discounts to, or otherwise modify the prices of their bids, by submitting Bid modifications in accordance with this clause or included in the initial Bid

E. Bid Opening and Evaluation

- 24. Bid Opening**
- 24.1 The Employer shall open the bids, including modifications made pursuant to Clause 23, in the presence of the bidders' representatives who choose to attend at the time and in the place **specified in the BDS**. Any specific opening procedures required if electronic bidding is permitted in accordance with ITB Sub-Clause 20.1, shall be as specified in the BDS.
- 24.2 Envelopes marked "WITHDRAWAL" shall be opened and read out first. Bids for which an acceptable notice of withdrawal has been submitted pursuant to ITB Clause 23 shall not be opened.
- 24.3 The bidders' names, the Bid prices, the total amount of each Bid and of any alternative Bid (if alternatives have been requested or permitted), any discounts, Bid withdrawals, substitutions, or modifications, the presence or absence of Bid Security, if required, and such other details as the Employer may consider appropriate, shall be announced by the Employer at the opening. No bid shall be rejected at bid opening except for the late bids pursuant to ITB Clause 22. Substitution Bids and modifications submitted pursuant to ITB Clause 23 that are not opened and read out at bid opening shall not be considered for further evaluation regardless of the circumstances. Late, withdrawn and substituted bids shall be returned un-opened to bidders
- 24.4 The Employer shall prepare Minutes of the Bid Opening, including the information disclosed, to those present, in accordance with ITB Sub-Clause 24.3.¹⁸
- 25. Confidentiality**
- 25.1 Information relating to the Examination, Clarification, Evaluation, and Comparison of Bids and Recommendations for the Award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process until publication of the award to the successful Bidder has been announced pursuant to ITB Sub-Clause 34.4. Any effort by a Bidder to influence the Employer's processing of bids or award decisions may result in the rejection of its Bid. Notwithstanding the above, from the time of bid opening to the time of Contract award, if any Bidder wishes to contact the Employer on any matter related to the bidding process, it should do so in writing.
- 26. Clarification of Bids**
- 26.1 To assist in the examination, evaluation, and comparison of Bids, the Employer may, at the Employer's discretion, ask any Bidder

¹⁸ *A copy of the minutes should be sent by the Employer to the World Bank together with the Bid evaluation report, for contracts subject to prior review.*

for clarification of the Bidder's Bid, including breakdown of unit rates. The request for clarification and the response shall be in writing, but no change in the price or substance of the Bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids in accordance with ITB Clause 28.

27. Examination of Bids and Determination of Responsiveness

27.1 Prior to the detailed evaluation of Bids, the Employer shall determine whether each Bid (a) meets the eligibility criteria defined in ITB Clause 4; (b) has been properly signed; (c) is accompanied by the Security, if required; and (d) is substantially responsive to the requirements of the Bidding Documents.

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

27.3 If a Bid is not substantially responsive, it shall be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

28. Correction of Errors

28.1 Bids determined to be substantially responsive shall be checked by the Employer for any arithmetic errors. Errors shall be corrected by the Employer as follows:

(a) where there is a discrepancy between the amounts in figures and in words, the amount in words shall govern; and

(b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted shall govern.

28.2 The amount stated in the Bid shall be adjusted by the Employer in accordance with the above procedure for the correction of errors and, with the concurrence of the Bidder, shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, the Bid shall be rejected, and the Bid Security may be forfeited in accordance with ITB Sub-Clause 17.6 (b).

29. Currency for Bid Evaluation The currency for bid evaluation shall be Indian Rupees only.

30. Evaluation and Comparison of Bids

- 30.1 The Employer shall evaluate and compare only the bids determined to be substantially responsive in accordance with ITB Clause 27.
- 30.2 In evaluating the bids, the Employer shall determine for each Bid the evaluated Bid price by adjusting the Bid price as follows:
- (a) making any correction for errors pursuant to ITB Clause 28;
 - (b) making an appropriate adjustment for any other acceptable variations, deviations, or alternative offers submitted in accordance with ITB Clause 18; and
 - (c) making appropriate adjustments to reflect discounts or other price modifications offered in accordance with ITB Sub-Clause 23.5.
- 30.3 The Employer reserves the right to accept or reject any variation, deviation, or alternative offer. Variations, deviations, and alternative offers and other factors which are in excess of the requirements of the Bidding Documents or otherwise result in unsolicited benefits for the Employer shall not be taken into account in Bid evaluation.
- 30.4 The estimated effect of any price adjustment conditions under GCC Clause 47, during the period of implementation of the Contract, shall not be taken into account in Bid evaluation.
- 30.5 Where bids are invited for several lots, the Employer shall determine the application of discounts so as to minimize the combined cost of all the lots, pursuant to ITB Sub-Clause 30.2 (c).
- 30.6 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, the Employer may require the Bidder to produce detailed price analyses for any or all items of the Bill quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the performance security set forth in Clause 35 be increased at the expense of the successful Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful bidder under the Contract.

31. Preference for Domestic Bidders

Not used

F. Award of Contract

- | | |
|---|--|
| 32. Award Criteria | 32.1 Subject to ITB Clause 33, the Employer shall award the Contract to the Bidder whose Bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid price, provided that such Bidder has been determined to be (a) eligible in accordance with the provisions of ITB Clause 4, and (b) qualified in accordance with the provisions of ITB Clause 5. |
| 33. Employer's Right to Accept any Bid and to Reject any or all Bids | 33.1 Notwithstanding ITB Clause 32, the Employer reserves the right to accept or reject any Bid, and to cancel the bidding process and reject all bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Employer's action. ¹⁹ |
| 34. Notification of Award and Signing of Agreement | 34.1 The Bidder whose Bid has been accepted shall be notified of the award by the Employer prior to expiration of the Bid validity period in writing. This letter (hereinafter and in the GCC called the "Letter of Acceptance") shall state the sum that the Employer shall pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price"). |
| Publication of Award & Recourse to unsuccessful Bidders | 34.2 The Letter of Acceptance shall constitute the formation of the Contract, subject to the Bidder furnishing the Performance Security in accordance with ITB Clause 35 and signing the Agreement in accordance with ITB Sub-Clause 34.3. |
| Publication of Award & Recourse to unsuccessful Bidders | 34.3 The Agreement shall incorporate all agreements between the Employer and the successful Bidder. It shall be kept ready in the office of the Employer for the signature of the Employer and the successful Bidder, within 28 days following the Letter of Acceptance's date. Within 21 days of receipt of letter of acceptance, the successful Bidder shall sign the Agreement and deliver it to the Employer alongwith performance security in accordance with ITB Clause 35.1 and revised construction methodology. |
| Publication of Award & Recourse to unsuccessful Bidders | 34.4 The Employer shall publish in a in website of UPID and UPBSN the results identifying the bid and lot numbers and the following information: (i) name of each bidder who submitted a bid; (ii) |

¹⁹ Employers shall not reject bids or annul bidding processes, except as permitted in the Procurement Guidelines.

bid prices as read out at bid opening; (iii) name and evaluated prices of each bid that was evaluated; (iv) name of bidders whose bids were rejected and the reasons for their rejection; and (v) name of the winning bidder, and the price it offered, as well as the duration and summary scope of the contract awarded. After publication of the award, unsuccessful bidders may request in writing to the Employer for a debriefing seeking explanations for the failure of their bids. The Employer shall promptly respond in writing to any unsuccessful Bidder who, after publication of contract award requests the Employer in writing to explain on which grounds its bid was not selected.

35. Performance Security

35.1 Within 21 days after receipt of the Letter of Acceptance, the successful Bidder shall sign the contract agreement and deliver to the Employer a Performance Security in the amount stipulated in the GCC and in the form (Bank Guarantee) **stipulated in the BDS**, in Indian Rupees.

35.2 If the Performance Security is provided by the successful Bidder in the form of a Bank Guarantee or cashier's cheque/certified cheque/Bank Demand Draft, it shall be issued at the Bidder's option, by a nationalized/ scheduled bank located in India, or by a foreign bank acceptable to the Employer, through a correspondent bank located in India.

35.3 Failure of the successful Bidder to comply with the requirements of ITB Sub-Clauses 35.1 and 34.3 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Bid Security and employers may resort to awarding the contract to the next lowest evaluated responsive bidder. Upon the successful Bidder's, signing of the Agreement and furnishing of the Performance Security pursuant to ITB Clause 35.1, the Employer shall promptly notify the name of the winning bidder to each unsuccessful bidder and shall discharge the Bid Securities of the unsuccessful bidders pursuant to ITB Clause 17.4.

36. Advance Payment and Security

36.1 The Employer shall provide an Advance Payment on the Contract Price as stipulated in the GCC, subject to a maximum amount, as **stated in the BDS**. The Advance Payment shall be guaranteed by a Security. Section X "Security Forms" provides a Bank Guarantee for Advance Payment form.

37. Adjudicator /Disputes Review Expert

37.1 The Employer proposes the person **named in the BDS** to be appointed as Adjudicator under the Contract, at a daily fee **specified in the BDS**, plus reimbursable expenses. If the Bidder disagrees with this proposal, the Bidder should so state in the Bid. If, in the Letter of Acceptance, the Employer has not agreed

on the appointment of the Adjudicator, the Adjudicator shall be appointed by the Appointing Authority designated in the BDS and the SCC at the request of either party.

Section II. Bidding Data Sheet²⁰

A. General	
ITB 1.1	The Employer is Executive Engineer, Drainage Division, Aligarh <i>The name and identification of the contract is W-2 REHABILITATION OF JOR DRAIN FROM KM. 0.000 TO KM. 0.700 IN DISTT. KANNAUJ</i>
ITB 1.2	The Intended Completion Date is : 3 month from date of sign of contract
ITB 2.1	The Borrower is Government of India
ITB 2.1	The “World Bank” means “International Development Association (IDA) and loan refers to “ <i>IDA credit,</i> ” which, as of the date of issue of the bidding documents <i>has been approved,</i> by the World Bank.
ITB 2.1	The Project is Uttar Pradesh Sodic Land Reclamation III Project The loan/credit number is 4640 IN
ITB 4.3	The list of firms debarred from participating in World Bank projects is available at: http://www.worldbank.org/debarr/ .
ITB 5.3	The information required from bidders in ITB Sub-Clause 5.3 is modified as follows: None
ITB 5.3 (j)	The ceiling for sub contractor's participation is: not allowed
ITB 5.4	The qualification data required from bidders in ITB Sub-Clause 5.4 are modified as follows: None
ITB 5.5	The previous financial years turnover of civil engineering construction works of similar nature of last five year is required (2010-11 to 2014-15)
ITB 5.5	The qualification criteria in ITB Sub-Clause 5.5 are modified as follows:- None
ITB 5.5 (A)*	(a) Financial turnover:* not less than Rs. 16.98 Lakh in any two financial year of last five year (b) Completion of similar work of value of Rs 16.98 Lacs The following work will be considered as similar- Earth work and

*@....prprice level. Financial turn over and cost of completed works of previous years shall be given weightage @5% per year based on rupees value to bring them to base year price level of the financial year in which bids are received.

	<p>construction of Bridges/Structure on Drain or Canal at least in one year</p> <p>(c) Execution of minimum quantities of major components of work in any one year.</p> <p>Cement concrete (including RCC and PCC) 70.15 Cum</p> <p>Brick work 130.64 Cum</p> <p>Earthwork in both excavation and embankment (combined quantities) 28366 Cum</p>																				
<p>ITB 5.5 B</p>	<p>(a) The essential equipment to be made available for the Contract by the successful Bidder shall be as under:</p> <table border="0" data-bbox="440 630 1443 997"> <tr> <td data-bbox="440 630 479 661">A</td> <td data-bbox="479 630 1266 661">Hydraulic excavator of 1.0 cubic meter capacity (e.g. Poclain or equivalent)</td> <td data-bbox="1266 630 1315 661">1</td> <td data-bbox="1315 630 1443 661">Nos</td> </tr> <tr> <td data-bbox="440 756 479 787">B</td> <td data-bbox="479 756 1266 787">Standard mechanical concrete mixer with hopper (14/10 cft or 10/7 cft)</td> <td data-bbox="1266 756 1315 787">1</td> <td data-bbox="1315 756 1443 787">Nos</td> </tr> <tr> <td data-bbox="440 819 479 850">C</td> <td data-bbox="479 819 1266 850">Vibrators</td> <td data-bbox="1266 819 1315 850">1</td> <td data-bbox="1315 819 1443 850">Nos</td> </tr> <tr> <td data-bbox="440 882 479 913">D</td> <td data-bbox="479 882 1266 913">Air compressor with blowers for cleaning old surfaces</td> <td data-bbox="1266 882 1315 913">1</td> <td data-bbox="1315 882 1443 913">Nos</td> </tr> <tr> <td data-bbox="440 945 479 976">E</td> <td data-bbox="479 945 1266 976">Generator set</td> <td data-bbox="1266 945 1315 976">1</td> <td data-bbox="1315 945 1443 976">Nos</td> </tr> </table> <p>(b) the minimum amount of liquid assets and/or credit facilities net of other contractual commitments of the successful Bidder availability to be certified by a Scheduled Bank in the specified format shall be: Rs. 16.98 Lacs</p>	A	Hydraulic excavator of 1.0 cubic meter capacity (e.g. Poclain or equivalent)	1	Nos	B	Standard mechanical concrete mixer with hopper (14/10 cft or 10/7 cft)	1	Nos	C	Vibrators	1	Nos	D	Air compressor with blowers for cleaning old surfaces	1	Nos	E	Generator set	1	Nos
A	Hydraulic excavator of 1.0 cubic meter capacity (e.g. Poclain or equivalent)	1	Nos																		
B	Standard mechanical concrete mixer with hopper (14/10 cft or 10/7 cft)	1	Nos																		
C	Vibrators	1	Nos																		
D	Air compressor with blowers for cleaning old surfaces	1	Nos																		
E	Generator set	1	Nos																		
<p>ITB 5.7</p>	<p>Assessed Available Bid capacity = (A*N*1.5 - B)</p> <p>Where,</p> <p>A= Maximum value of civil engineering works executed in any one year during the last five years (updated to the price level of the financial year and the percentage escalation as stated in the BDS, taking into account the completed as well as works in progress).</p> <p>N = Number of years prescribed for completion of the works for which bids are invited (period up to 6 months to be taken as half-year and more than 6 months as one year).</p> <p>B= Value, at the current price level, of existing commitments and on-going works to be completed during the period of completion of the woks for which bids are invited.</p>																				

B. Bidding Documents	
ITB 10.1	The Employer's address for clarification is: Executive Engineer, Drainage Division, Aligarh
ITB 10.2	Pre-bid Meeting shall be held on 29.11.16 at 15:00 hrs At the address given below: Office of The Executive Engineer, Drainage Division, Aligarh
C. Preparation of Bids	
ITB 13.1	Any additional materials required to be completed and submitted by the Bidders are None
ITB 14.5	The price quoted by bidder shall not be adjustable.
ITB 16.1	The Bid shall be valid for 90 days.
ITB 16.2	The factor 'B' is not applicable.
ITB 17.1	Bid shall include a Bid Security issued by a nationalized/scheduled bank. The form for bid security (bank guarantee) included in Section X, Security Forms. The Bid Security shall be in Indian rupees.
ITB 17.2	The Bid Security amount is Rs. 0.34 Lacs
ITB 19.1	In addition to original Bid copy of bid is required : one
D. Submission of Bids	
ITB 20.1	Only Electronic bid accepted.
ITB 20.2 (a)	The Employer's address for the purpose of Bid submission is : Office of Executive Engineer Drainage Division, Aligarh PIN Code: 202001
ITB 20.2 (b)	Name and Identification number of the contract as given in ITB 1.1 above in this sheet. W-2 REHABILITATION OF JOR DRAIN FROM KM. 0.000 TO KM. 0.700 IN DISTT. KANNAUJ

ITB 20.2 (c)	The warning should read “DO NOT OPEN BEFORE 2:30 hrs on 20.12.16
ITB 21.1	The deadline for submission of bids shall be 17:00 hrs on 17.12.16. In the event the specified date is declared as a holiday for the employer, the bids will be received upto the appointed time on the next working day.
E. Bid Opening and Evaluation	
ITB 24.1	<p>The bid opening shall take place at: Office of Executive Engineer, Drainage Division, Aligarh</p> <p>Date: 20.12.16 Time: 2:30 hrs</p> <p>In the event specified date is declared as a holiday for the employer, the bids will be received up to the appointed time on the next working day.</p>
F. Award of Contract	
ITB 35.1	<p>The Standard Form of Performance Security acceptable to the Employer shall be in the form a Bank Guarantee which shall be unconditional and equivalent to the amount of 5% of the quoted bid price on prescribed format given in section X of bidding document.</p> <p>If the performance security is given as a cheque or demand draft, the same shall be drawn from a nationalized/scheduled bank in India in favour of Executive Engineer, Drainage Division, Aligarh payable at Aligarh</p>
ITB 36.1	Deleted
ITB 37.1	<p>The Adjudicator proposed by the Employer is a retired Chief Engineer of Department of State all Government of India</p> <p>The daily fee for this proposed Adjudicator shall be <i>Rs 5000 per day</i>. The biographical data of the proposed Adjudicator is as follows:</p> <p>Adjudicator shall be retired Chief Engineer of Department of State all Government of India, having a minimum ten years experience of drainage works.</p> <p>The Appointing Authority is Chairman-Institution of Engineers, India.</p>

Section III. Eligible Countries

Eligibility for the Provision of Goods, Works and Services in Bank-Financed Procurement

1. In accordance with Para 1.8 of the Guidelines: Procurement under IBRD Loans and IDA Credits, dated May 2004, the Bank permits firms and individuals from all countries to offer goods, works and services for Bank-financed projects. As an exception, firms of a Country or goods manufactured in a Country may be excluded if:

Para 1.8 (a) (i): as a matter of law or official regulation, the Borrower's Country prohibits commercial relations with that Country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply of the Goods or Works required, or

Para 1.8 (a) (ii): by an Act of Compliance with a Decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's Country prohibits any import of goods from that Country or any payments to persons or entities in that Country.

2. For the information of borrowers and bidders, at the present time firms, goods and services from the following countries are excluded from this bidding:

(a) With reference to paragraph 1.8 (a) (i) of the Guidelines:
NIL

(b) With reference to paragraph 1.8 (a) (ii) of the Guidelines:
NIL

Section IV. Forms of Bid, Qualification Information, Letter of Acceptance, and Agreement

1. Contractor's Bid

The **Bidder** shall fill in and submit this Bid form with the Bid. If the Bidder objects to the Adjudicator proposed by the Employer in the Bidding Documents, it should so state in its Bid, and present an alternative candidate, together with the candidate's daily fees and biographical data, in accordance with ITB Clause 37.

[date]

Identification No and Title of Contract: **W-2 REHABILITATION OF JOR DRAIN FROM KM. 0.000 TO KM. 0.700 IN DISTT. KANNAUJ**

To:

Office of
Executive Engineer
Drainage Division, Aligarh
PIN Code: 202001

Having examined the Bidding Documents, including addenda [insert list], we offer to execute the **REHABILITATION OF JOR DRAIN FROM KM. 0.000 TO KM. 0.700 IN DISTT. KANNAUJ** in accordance with the GCC accompanying this Bid for the Contract Price of [insert amount in numbers], [insert amount in words] [Indian currency].

The advance payment required is: Nil

We accept the appointment of [insert name proposed in Bid Data Sheet] as the Adjudicator.

[or]

We do not accept the appointment of [insert name proposed in Bid Data Sheet] as the Adjudicator, and propose instead that [insert name] be appointed as Adjudicator, whose daily fees and biographical data are attached.

This Bid and your written acceptance of it shall constitute a binding Contract between us. We understand that you are not bound to accept the lowest or any Bid you receive.

We hereby confirm that this Bid complies with the Bid validity and, if required, Bid Security as required by the Bidding Documents and specified in the BDS.

We, including any subcontractors or suppliers for any part of the Contract, have nationalities from eligible countries in accordance with ITB Sub-Clause 4.1;

We have no conflict of interest in accordance with ITB Sub-Clause 4.2;

Our firm, its affiliates or subsidiaries—including any subcontractors or suppliers for any part of the contract—has not been declared ineligible by the Bank, or under the Employer’s country laws or official regulations, in accordance with ITB Sub-Clauses 4.3 and 4.4.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery or any collusive arrangements with competitors.

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

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address of agent	Amount and Currency	Purpose of Commission or gratuity
_____	_____	_____
_____	_____	_____
_____	_____	_____
(if none, state “none”)		

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Bidder: _____

Address: _____

2. Qualification Information

Notes on Form of Qualification Information

The information is to be filled in by individual bidders and by each member of Joint Venture in case of JV participating in the Bid. 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. Attach additional pages as necessary.

Individual Bidders Qualification									
1	(i) Constitution or legal status of Bidder (ii) Place of registration: (iii) Principal place of business: (iv) Power of attorney of signatory of Bid						[attach copy] [attach]		
Total annual volume of civil engineering construction work executed and payments received in the last five years proceeding the year in which bids are invited. <i>(Attach certificate from Chartered Accountant)</i>						Year (Rs. In millions) 2012 -2013 2013 -2014 2014-2015 2015-2016 2016-2017			
(A) Work performed as prime Contractor <i>(in the same name and style)</i> on construction works of a similar nature and volume over the last five years ²¹ . <i>[Attach certificate from the Engineer-in-charge.]</i>									
Project Name	Name of Employer	Description of work	Contract No.	Value of contract	Date of Issue of Work Order	Stipulated Date of Completion	Actual Date of Completion	Remarks explaining reasons for Delay, if any	
(B) Quantities of work executed as prime contractor <i>(in the same name and style)</i> in the last five years: ²²									
Year	Name of the Work	Name of Employer*	Quantity of work performed(cum) @			Remarks*			
2012 -2013			Cement concrete	Masonry	E/works	(indicate contract Ref)			
2013 -2014			(including						
2014-2015			RCC&PCC)						
2015-2016									
2016-2017									

[@ The items or work for which date is requested should tally with that specified in ITB 5.5A(c)]

²¹ Immediately preceding the financial year in which bids are received.

²² Immediately preceding the financial year in which bids are received.

2.4	Proposed sub-contractors and firms: Refer to ITB Clause 5.3(j) and GCC Clause 7. NA				
	Sections of the Works	Value of subcontract	% of Bid price	Sub-contractor (name and address)	Experience in similar work
	Note : <i>The capability of the sub-Contractor will also be assessed (on the same lines as for the main Contractor) before according approval to him.</i>				
2.5	Financial reports or the last five years: Balance sheets, profit and loss statements, auditors' reports, etc. List below and attach copies.				
2.6	Financial Resources: Evidence of access to financial resources to meet the qualification requirements[<i>cash in hand, lines of credit, etc.</i>] List below and attach copies of support documents. [<i>Attach a certificate from Bank in the format at the end of this section. Other. Certificate, will not be accepted</i>]				
2.7	Banker's References: Name, address, and telephone, telex, and facsimile numbers of banks that may provide references if contacted by the Employer.				
2.8	Information on current litigation in which the Bidder is involved.				
	Name of Other party(s) 1	Cause of dispute 2	Litigation where (Court or Arbitration) 3	Amount involved 4	Remarks regarding present status 5
2.9	Proposed work method and schedule: The bidder should attach descriptions, drawings, and charts as necessary, to comply with the requirements of the bidding documents. [<i>Refer Clause 5. 1 and 5.3(k)</i>]				

2.10	Statement of Compliance under the requirements of Sub-Clause 4.2 of ITB.							
2.11	Financial Statements Summary: To be submitted by each bidder including each members of JV.							
	SUMMARY OF FINANCIAL STATEMENTS							
	Name of bidder/JV Member:							
	(Equivalent Rs. Million)							
	S.No.	Financial Information in Rupee equivalent with exchange rate at the end of concerned year	Actuals for Previous five years excluding the current financial year					Ref. of Page Nos. of Balance Sheets
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	1.	Total Assets						
	2.	Total Turnover						
	3.	Current Assets						
	4.	Current Assets + Loan & Advances						
	5.	Total Liabilities						
	6.	Current Liabilities						
	7.	Current liabilities & provision						
	8.	Profit before Interest and Tax						
	9.	Profit before Tax						
	10.	Profit after Tax						
	11.	Shareholder's Funds (Net Worth)=(Paid up equity +Reserves)-(revaluation reserves + Miscellaneous expenditure not written off)						
	12.	Depreciation						
	13.	Current Ration (2)/(5)						
	14.	Net cash accruals= Profit after Tax + depreciation						
	This information should be extracted from the Annual Financial Statements/ Balance sheets, which should be enclosed. Year 1 will be the latest year for which audited financial statements are available. Year 2 shall be the year immediately preceding year 1 and year 3 shall be the year immediately preceding Year 2.							
2.12	Additional Requirements : Bidders should provide any additional information required to fulfill the requirement of Clause 5 of ITB.							

**2.13 SAMPLE FORMAT FOR EVIDENCE OF ACCESS TO OR AVAILABILITY
OF CREDIT FACILITIES-***
CLAUSE 5.5 [B] [c] 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 **REHABILITATION OF JOR DRAIN FROM KM. 0.000 TO KM. 0.700 IN DISTT. KANNAUJ** *funded by the World Bank* is awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of Rs. to meet their working capital requirements for executing the above contract.

---Sd.---

Name of Bank

Senior Bank Manager

Address of the Bank

3. Letter of Acceptance

[letterhead paper of the Employer]

[The Letter of Acceptance shall be the basis for formation of the Contract as described in ITB Clauses 34 and 35. This Standard Form of Letter of Acceptance shall be filled in and sent to the successful Bidder only after evaluation of bids has been completed, subject to any review by the World Bank required under the Loan Agreement.]

[insert date]

Identification No and Title of Contract: **W-2 REHABILITATION OF JOR DRAIN
FROM KM. 0.000 TO KM. 0.700 IN
DISTT. KANNAUJ**

To: *[insert name and address of the Contractor]*

This is to notify you that your Bid dated *[insert date]* for execution of the **REHABILITATION OF JOR DRAIN FROM KM. 0.000 TO KM. 0.700 IN DISTT. KANNAUJ** as given in the SCC for the Contract Price *[insert amount in numbers and words]* as corrected and modified²³ in accordance with the Instructions to Bidders is hereby accepted by our Agency.

[insert one of the following (a) or (b) options]

- (a) We accept that *[insert name proposed by bidder]* be appointed as the Adjudicator.²⁴
- (b) We do not accept that *[insert name proposed by bidder]* be appointed as Adjudicator, and by sending a copy of this Letter of Acceptance to *[insert name of the Appointing Authority]*, we are hereby requesting *[insert name]*, the Appointing Authority, to appoint the Adjudicator in accordance with ITB Clause 37.1.²⁵

We note that as per your bid, you do not intend to subcontract any component of work.

[OR]

²³ Delete "corrected and" or "and modified" if not applicable. See Notes on Standard Form of Agreement, next page.

²⁴ To be used only if the Contractor disagrees in the Bid with the Adjudicator proposed by the Employer in the Instructions to Bidders, and has accordingly offered another candidate.

²⁵ To be used only if the Contractor disagrees in the Bid with the Adjudicator proposed by the Employer in the ITB, has accordingly offered another candidate, and the Employer does not accept the counterproposal.

We note that as per your bid, you propose to employ M/s. as sub-contractor for executing

[Delete whatever is inapplicable]

You are hereby requested to furnish Performance Security, plus additional security for unbalanced bids in terms of ITB clause 30.6, in the form detailed in ITB Clause 35.1 for an amount of Rs. ____ within 15 days of the receipt of this letter of acceptance, valid upto 28 days from the date of expiry of Defects Liability Period i.e. upto and sign the contract, failing which action as stated in ITB Clause 35.3 will be taken.

We have reviewed the construction methodology submitted by you alongwith the bid in response to ITB Clause 5.3[k] and our comments are given in the attachment. You are requested to submit a revised Program including environmental management plan as per Clause 27 of General Conditions of Contract within 14 days of receipt of this letter of acceptance.

Yours faithfully,

Authorized Signature.....

Name and Title of Signatory.....

Name of Agency.....

Issue of Notice to proceed with the work
(letterhead of the Employer)

_____ (date)

To

_____ (name and address of the Contractor)

Dear Sirs:

Pursuant to your furnishing the requisite security as stipulated in ITB clause 35.1, construction methodology as stated in letter of acceptance and signing of the contract agreement for **REHABILITATION OF JOR DRAIN FROM KM. 0.000 TO KM. 0.700 IN DISTT. KANNAUJ @ a Bid Price of Rs. _____**, you are hereby instructed to proceed with the execution of the said works in accordance with the contract documents.

Yours faithfully,

**Executive Engineer,
Drainage Division, Aligarh**

4. Agreement

[The Agreement shall incorporate any corrections or modifications to the Bid resulting from corrections of errors (ITB Clause 28), price adjustment during the evaluation process (ITB Sub-Clause 16.3, selection of an alternative offer (ITB Clause 18), acceptable deviations (ITB Clause 27), or any other mutually-agreeable changes allowed for in the Conditions of Contract, such as changes in key personnel, subcontractors, scheduling, and the like.]

This Agreement, made the *[insert day]* between Executive Engineer, Drainage Division, Aligarh, Aligarh payable at Aligarh (hereinafter called “the Employer”) and (insert name and address of Contractor] (hereinafter called “the Contractor”) of the other part.

Whereas the Employer is desirous that the Contractor execute **REHABILITATION OF JOR DRAIN FROM KM. 0.000 TO KM. 0.700 IN DISTT. KANNAUJ** (hereinafter called “the Works”) and the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein at a contract price of Rs.....

Now this Agreement witnesseth as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects wherein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

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

The Common Seal of *[Witness entity]* _____
was hereunto affixed in the presence of: _____

Signed, Sealed, and Delivered by the said _____
in the presence of: _____

Binding Signature of Employer *[signature of an authorized representative of the Employer]*

Binding Signature of Contractor [*signature of an authorized representative of the Contractor*]

Section V: Conditions of Contract

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General Conditions of Contract

A. General

1. Definitions

1.1 Boldface type is used to identify defined terms.

- (a) The **Adjudicator** is the person appointed jointly by the Employer and the Contractor to resolve disputes in the first instance, as provided for in GCC Clauses 24 and 25 hereunder.
- (b) **Bill of Quantities** means the priced and completed Bill of Quantities forming part of the Bid.
- (c) **Compensation Events** are those defined in GCC Clause 44 hereunder.
- (d) The **Completion Date** is the date of completion of the Works as certified by the Engineer-in-charge, in accordance with GCC Sub-Clause 55.1.
- (e) The **Contract** is the Contract between the Employer and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in GCC Clause 2.3 below.
- (f) The **Contractor** is a person or corporate body whose Bid to carry out the Works has been accepted by the Employer.
- (g) The **Contractor's Bid** is the completed bidding document submitted by the Contractor to the Employer.
- (h) The **Contract Price** is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.
- (i) **Days** are calendar days; months are calendar months.
- (j) **Dayworks** are varied work inputs subject to payment on a time basis for the Contractor's employees and Equipment, in addition to payments for associated Materials and Plant.
- (k) A **Defect** is any part of the Works not completed in accordance with the Contract.
- (l) The **Defects Liability Certificate** is the certificate issued

by Engineer-in-charge upon correction of defects by the Contractor.

- (m) The **Defects Liability Period** is the period **named in the SCC** Sub-Clause 35.1 and calculated from the Completion Date.
- (n) **Drawings** include calculations and other information provided or approved by the Engineer-in-charge for the execution of the Contract.
- (o) The **Employer** is the party who employs the Contractor to carry out the Works, **as specified in the SCC**.
- (p) **Equipment** is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.
- (q) The **Initial Contract Price** is the Contract Price listed in the Employer's Letter of Acceptance.
- (r) The **Intended Completion Date** is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is **specified in the SCC**. The Intended Completion Date may be revised only by the Engineer-in-charge by issuing an extension of time or an acceleration order.
- (s) **Materials** are all supplies, including consumables, used by the Contractor for incorporation in the Works.
- (t) **Plant** is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function.
- (u) The **Engineer-in-charge** is the person **named in the SCC** (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Engineer-in-charge) who is responsible for supervising the execution of the Works and administering the Contract.
- (v) **SCC** means Special Conditions of Contract
- (w) The **Site** is the area **defined as such in the SCC**.
- (x) **Site Investigation Reports** are those that were included in the bidding documents and are factual and interpretative reports about the surface and subsurface conditions at the Site.
- (y) **Specification** means the Specification of the Works

included in the Contract and any modification or addition made or approved by the Engineer-in-charge.

- (z) The **Start Date** is **given in the SCC**. It is the latest date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.
- (aa) A **Subcontractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site.
- (bb) **Temporary Works** are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.
- (cc) A **Variation** is an instruction given by the Engineer-in-charge which varies the Works.
- (dd) The **Works** are what the Contract requires the Contractor to construct, install, and turn over to the Employer, **as defined in the SCC**.

2. Interpretation

- 2.1 In interpreting these GCC, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Engineer-in-charge shall provide instructions clarifying queries about these GCC.
- 2.2 If sectional completion is **specified in the SCC**, references in the GCC to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).
- 2.3 The documents forming the Contract shall be interpreted in the following order of priority:
 - (a) Agreement,
 - (b) Letter of Acceptance,
 - (c) Contractor's Bid,
 - (d) Special Conditions of Contract,
 - (e) General Conditions of Contract,
 - (f) Specifications,

- (g) Drawings,
 - (h) Priced bill of Quantities, and
 - (i) any other document **listed in the SCC** as forming part of the Contract.
- 3. Language and Law**
- 3.1 The language of the Contract and the law governing the Contract are **stated in the SCC**.
 - 3.2 Salient features of major labour and other laws that are applicable to construction industry in India are given as Appendix 1 to these General Conditions of Contract.
- 4. Engineer-in-charge's Decisions**
- 4.1 Except where otherwise specifically stated, the Engineer-in-charge shall decide contractual matters between the Employer and the Contractor in the role representing the Employer.

However, if the Engineer-in-charge is required, under the rules and regulations and orders of the Employer, to obtain approval of some other authorities for specific actions, he will so obtain the approval. Provided further that any requisite approval shall be deemed to have been given by the Employer for any such authority exercised by the Engineer-in-charge.
- 5. Delegation**
- 5.1 The Engineer-in-charge may delegate any of his duties and responsibilities to other people, except to the Adjudicator, after notifying the Contractor, and may cancel any delegation after notifying the Contractor.
- 6. Communications**
- 6.1 Communications between parties that are referred to in the Conditions shall be effective only when given in writing. A notice shall be effective only when it is delivered. All oral instructions shall be confirmed in writing in seven working days.
- 7. Subcontracting**
- 7.1 The Contractor may subcontract with the approval of the Engineer-in-charge upto the ceiling specified in Contract Data, but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations.
 - 7.2 The Engineer-in-charge should satisfy himself before recommending to the Employer whether:
 - a) the circumstances warrant such sub-contracting; and,

- b) the sub-Contractor so proposed for the Work possesses the experience, qualifications and equipment necessary for the job proposed to be entrusted to him in proportion to the quantum of Works to be sub-contracted.

7.3 If payments are proposed to be made directly to that sub-contractor, this should be subject to specific authorization by the prime contractor so that his arrangement does not alter the contractor's liability or obligations under the contract.

7.4 The Contractor shall not be required to obtain any consent from the Employer for:

- (a) the sub-contracting of any part of the Works for which the Sub-Contractor is already named in the contract;
- (b) the provision for labour, or labour component, and,
- (c) the purchase of materials which are in accordance with the standards specified in the contract.

8. Other Contractors

8.1 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of other Contractors, as **referred to in the SCC**. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification.

9. Personnel

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

9.2 The Engineer-in-charge may require the Contractor to remove from the Site of Works, a member of the Contractor's staff or his work force, who:

- (a) persists in any misconduct or lack of care,
- (b) carries out duties incompetently or negligently,
- (c) fails to conform with any provisions of the Contract, or

- (d) persists in any conduct which is prejudicial to safety, health, or the protection of the environment.

The contractor shall ensure that the person leaves the site within seven days and has no further connection with the work in the contract. The Contractor shall appoint a suitable replacement within 28 days or earlier as may be agreed to between the Engineer-in-charge and the Contractor.

- 9.3 The Contractor shall not employ any retired Gazetted officer who has either not completed two years after the date of retirement or has not obtained permission from the Government authorities for employment with the Contractor²⁶.

- 9.4 The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport. The Contractor shall, if required by the Engineer-in-charge, deliver to the Engineer-in-charge a return in detail, in such form and at such intervals as the Engineer-in-charge may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Engineer-in-charge may require.

**Compliance with
Labour
Regulations**

- 9.5 During continuance of the Contract, the Contractor and his Sub-Contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour laws (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law prevailing on the Base Date either by the State or the Central Government or the local authority. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contraventions including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the Engineer-in-charge/ Employer shall have the right to deduct any money due to the Contractor including his amount of performance security. The Employer/ Engineer-in-charge shall also have right to recover from the Contractor any sum required or estimated to be required for

²⁶ Based on Government Directives.

making good the loss or damage suffered by the Employer.

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

9.7 The Contractor shall duly comply with the provisions of the Apprentices Act 1961 (III of 1961) and the rules made there under, and comply, failure or neglect to shall be subject to all liabilities and penalties provided in the said Act and Rules.

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

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

10.2 Irrespective of the Employer's or Contractor's Risk the Contractor shall continue with the works as are appropriate and as directed by the Engineer-in-charge.

**11. Employer's
Risks**

11.1 From the Start Date until the Defects Liability Certificate has been issued, the following are Employer's risks:

(a) The risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to

(i) use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works or

(ii) negligence, breach of statutory duty, or interference with any legal right by the Employer or by any person employed by or contracted to him except the Contractor.

(b) The risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Employer or in the Employer's design, or due to war or radioactive contamination directly affecting the country where the Works are to be executed.

**12. Contractor's
Risks**

12.1 From the Starting Date until the Defects Liability Certificate has been issued, the risks of personal injury, death, and loss of or damage to property (including, without limitation, the Works, Plant, Materials, and Equipment) which are not Employer's risks are Contractor's risks.

13. Insurance

13.1 The Contractor shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the

end of the Defects Liability Period, in the amounts and deductibles **stated in the SCC** 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 to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and
- (d) personal injury or death.

13.2 Policies and certificates for insurance shall be delivered by the Contractor to the Engineer-in-charge for the Engineer-in-charge's approval before the Start Date. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.

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

13.4 Alterations to the terms of an insurance shall not be made without the approval of the Engineer-in-charge.

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

**14. Site
Investigation
Reports**

14.1 The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports **referred to in the SCC**, supplemented by any information available to the Bidder.

**15. Queries about
the Special
Conditions of
Contract**

15.1 The Engineer-in-charge shall clarify queries on the **SCC**.

-
- 16. Contractor to Construct the Works**
- 16.1 The Contractor shall construct and install the Works in accordance with the Specifications and Drawings and as per instructions of Engineer-in-charge.
- 16.2.1 The Contractor shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other cause arising as a consequence of his methods of operation.
- Protection of Environment**
- 16.2.2 During continuance of the contract, the contractor and his sub-contractors shall abide at all times by all existing enactments on environmental protection and rules made there under, regulations, notifications and by-laws of the State or Central Government, or local authorities and other law, bye-law, regulations that may be passed or notification that may be issued in this respect in future by the State or Central Government or the local authority. Salient features of the major laws are given in the attachment, Appendix 1 to there General conditions of contract.
- 17. The Works to Be Completed by the Intended Completion Date**
- 17.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Program submitted by the Contractor, as updated with the approval of the Engineer-in-charge, and complete them by the Intended Completion Date.
- 18. Approval by the Engineer-in-charge**
- 18.1 The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Engineer-in-charge, who is to approve them if they comply with the Specifications and Drawings.
- 18.2 The Contractor shall be responsible for design of Temporary Works.
- 18.3 The Engineer-in-charge's approval shall not alter the Contractor's responsibility for design of the Temporary Works.
- 18.4 The Contractor shall obtain approval of third parties to the design of the Temporary Works, where required.
- 18.5 All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Engineer-in-charge before this use.
- 19. Safety**
- 19.1 The Contractor shall be responsible for the safety of all activities

- on the Site.
- 20. Discoveries** 20.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Engineer-in-charge of such discoveries and carry out the Engineer-in-charge's instructions for dealing with them.
- 21. Possession of the Site** 21.1 The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date **stated in the SCC**, the Employer shall be deemed to have delayed the start of the relevant activities, and this shall be a Compensation Event.
- 22. Access to the Site** 22.1 The Contractor shall allow the Engineer-in-charge and any person authorized by the Engineer-in-charge access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.
- 23. Instructions, Inspections and Audits** 23.1 The Contractor shall carry out all instructions of the Engineer-in-charge which comply with the applicable laws where the Site is located.
- 23.2 The Contractor shall permit the Bank and/or persons appointed by the Bank to inspect the Site and/or the accounts and records of the Contractor and its sub-contractors relating to the performance of the Contract, and to have such accounts and records audited by auditors appointed by the Bank if required by the Bank. The Contractor's attention is drawn to Sub-Clause 60.1 [Corrupt or Fraudulent Practices] which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under Sub-Clause 23.2 constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility under the Procurement Guidelines).
- 24. Disputes** 24.1 If the Contractor believes that a decision taken by the Engineer-in-charge was either outside the authority given to the Engineer-in-charge by the Contract or that the decision was wrongly taken, the decision shall be referred to the Adjudicator within 14 days of the notification of the Engineer-in-charge's decision.
- 25. Procedure for Disputes** 25.1 The Adjudicator should be in position before "notice to proceed with work" is issued to the contractor and an agreement should be signed with the Adjudicator jointly by Employer/Contractor in the form attached – Appendix 3
- 25.2 The Adjudicator shall give a decision in writing within 28 days

of receipt of a notification of a dispute.

25.3 The Adjudicator shall be paid daily at the **rate specified in the BDS and SCC**, together with reimbursable expenses of the types specified in the Contract Data, and the cost shall be divided equally between the Employer and the Contractor. Whatever decision is reached by the Adjudicator, either party may refer a decision of the Adjudicator to an Arbitrator within 28 days of the Adjudicator's written decision. If neither party refers the dispute to arbitration within the above 28 days, the Adjudicator's decision shall be final and binding.

25.4 The arbitration shall be conducted in accordance with the arbitration procedures published by the institution named and in the place specified **in the SCC**.

The Arbitrators shall give a decision in writing within 120 days of start of the proceedings except otherwise agreed to by the Parties. The Arbitrators shall entertain only those issues which have been earlier referred to the Adjudicator and either party is dissatisfied with the decision given by the Adjudicator.

26. Replacement of Adjudicator

26.1 Should the Adjudicator resign or die, or should the Employer and the Contractor agree that the Adjudicator is not functioning in accordance with the provisions of the Contract, a new Adjudicator shall be jointly appointed by the Employer and the Contractor. In case of disagreement between the Employer and the Contractor, within 30 days, the Adjudicator shall be designated by the Appointing Authority **designated in the SCC** at the request of either party, within 14 days of receipt of such request.

B. Time Control

27. Program

27.1 Within the time **stated in the SCC**, after the date of the Letter of Acceptance, the Contractor shall submit to the Engineer-in-charge for approval, a revised Program (*revising the program given along with bid earlier*) including Environmental Management Plan showing the general methods, arrangements, order, and timing for all the activities in the Works.

27.2 An update of the Program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work, including any changes to the sequence of the activities.

27.3 The Contractor shall submit to the Engineer-in-charge for approval an updated Program at intervals no longer than the period **stated in the SCC**. If the Contractor does not submit an updated Program within this period, the Engineer-in-charge may withhold the amount **stated in the SCC** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program has been submitted.

27.4 The Engineer-in-charge's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Engineer-in-charge again at any time. A revised Program shall show the effect of Variations and Compensation Events.

27.5 The Contractor shall furnish monthly progress reports as directed by the Project Engineer by 7th of the succeeding month. The report shall include charts and detailed descriptions of the progress of identified activities, photographs showing status of progress at site, records of Contractor's personnel and equipment, Quality Assurance documents, comparison of actual and planned progress as per program.

28. Extension of the Intended Completion Date

28.1 The Engineer-in-charge shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work, which would cause the Contractor to incur additional cost.

28.2 The Engineer-in-charge shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Engineer-in-charge for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.

29. Acceleration

29.1 When the Employer wants the Contractor to finish before the Intended Completion Date, the Engineer-in-charge shall obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Employer accepts these proposals, the Intended Completion Date shall be adjusted accordingly and confirmed by both the Employer and the Contractor.

29.2 If the Contractor's priced proposals for an acceleration are

accepted by the Employer, they are incorporated in the Contract Price and treated as a Variation.

**30. Delays
Ordered by the
Engineer-in-
charge**

30.1 The Engineer-in-charge may instruct the Contractor to delay the start or progress of any activity within the Works.

**31. Management
Meetings**

31.1 Either the Engineer-in-charge or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.

31.2 The Engineer-in-charge shall record the business of management meetings and provide copies of the record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken shall be decided by the Engineer-in-charge either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

32. Early Warning

32.1 The Contractor shall warn the Engineer-in-charge at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work, increase the Contract Price, or delay the execution of the Works. The Engineer-in-charge may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Completion Date. The estimate shall be provided by the Contractor as soon as reasonably possible.

32.2 The Contractor shall cooperate with the Engineer-in-charge in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Engineer-in-charge.

C. Quality Control

- 33. Quality Assurance**
- 33.1 The Contractor shall institute Quality Assurance (QA) and Quality Control (QC) systems in accordance with Quality Assurance Plan to demonstrate compliance with the requirements of the Contract as approved by the Engineer-in-charge.
- 33.2 Compliance with the QA/QC systems shall not relieve the Contractor of any of his duties obligations or responsibilities under the Contract.
- 34. Tests**
- 34.1 The Contractor shall provide all apparatus, assistance, documents and other information, electricity, equipment, fuel, consumables, instruments, labour, materials, and suitably qualified and experienced staff, as are necessary to carry out the specified tests efficiently.
- 34.2 If the Engineer-in-charge instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect, the test shall be a Compensation Event.
- 35. Identifying and Correction of Defects**
- 35.1 The Engineer-in-charge shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Engineer-in-charge may instruct the Contractor to search for a Defect and to uncover and test any work that the Engineer-in-charge considers may have a Defect.
- 35.2 The contractor shall permit the Employer's Technical auditor to check the contractor's work and notify the Engineer-in-charge and Contractor of any defects that are found. Such a check shall not affect the Contractor's or the Engineer-in-charge's responsibility as defined in the Contract Agreement.
- 35.3 The Engineer-in-charge shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion, and is **defined in the SCC**. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
- 35.4 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Engineer-in-charge's notice.
- 36. Uncorrected Defects**
- 36.1 If the Contractor has not corrected a Defect within the time specified in the Engineer-in-charge's notice, the Engineer-in-

charge shall assess the cost of having the Defect corrected, and the Contractor shall pay this amount.

Note: Where in certain cases, the technical specifications provide for acceptance of works within specified tolerance limits at reduced rates, Engineer will certify payments to Contractor accordingly.

D. Cost Control

37. Bill of Quantities

37.1 The Bill of Quantities shall contain items for the construction, installation, testing, and commissioning work to be done by the Contractor.

37.2 The Bill of Quantities is used to calculate the Contract Price. The Contractor is paid for the quantity of the work done at the rate specified in the Bill of Quantities for each item.

38. Changes in the Quantities

38.1 If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item by more than 25 percent, provided the change exceeds 1 percent of the Initial Contract Price, the Engineer-in-charge shall adjust the rate to allow for the change.

(a) If the quantity of work executed exceeds the quantity of the item in BOQ beyond the higher specified limit the Engineer-in-charge shall fix the rate to be applied for the additional quantity of the work executed.

(b) If the quantity of work executed less than the quantity of the item in BOQ lesser than the lower specified limit, the Engineer-in-charge shall fix the rate to be applied for whole of the quantity of the work so executed.

38.2 The Engineer-in-charge shall not adjust rates from changes in quantities if thereby the Initial Contract Price is exceeded by more than 15 percent, except with the prior approval of the Employer.

38.3 If requested by the Engineer-in-charge, the Contractor shall provide the Engineer-in-charge with a detailed cost breakdown of any rate in the Bill of Quantities.

39. Variations

39.1 All Variations shall be included in updated Programs produced by the Contractor.

40. Payments for Variations

40.1 The Contractor shall provide the Engineer-in-charge with a quotation [*with breakdown of unit rates*]for carrying out the

Variation when requested to do so by the Engineer-in-charge. The Engineer-in-charge shall assess the quotation, which shall be given within seven days of the request or within any longer period stated by the Engineer-in-charge and before the Variation is ordered.

40.2 If the work in the Variation corresponds with an item description in the Bill of Quantities and if, in the opinion of the Engineer-in-charge, the quantity of work above the limit stated in Sub-Clause 38.1 or the timing of its execution do not cause the cost per unit of quantity to change, the rate in the Bill of Quantities shall be used to calculate the value of the Variation. If the cost per unit of quantity changes, or if the nature or timing of the work in the Variation does not correspond with items in the Bill of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of work.

40.3 If the Contractor's quotation is unreasonable, [*or if contractor fails to provide the Engineer-in-charge with a quotation within a reasonable time specified by Engineer-in-charge in accordance with GCC40.1*] the Engineer-in-charge may order the Variation and make a change to the Contract Price, which shall be based on the Engineer-in-charge's own forecast of the effects of the Variation on the Contractor's costs.

40.4 If the Engineer-in-charge decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.

40.5 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.

41. Cash Flow Forecasts

41.1 When the Program is updated, the Contractor shall provide the Engineer-in-charge with an updated cash flow forecast. The cash flow forecast shall be in Indian Rupees.

42. Payment Certificates

42.1 The Contractor shall submit to the Engineer-in-charge monthly statements of the estimated value of the work executed less the cumulative amount certified previously along with details of measurement of the quantity of works executed in a tabular form approved by the Engineer-in-charge.

42.2 The Engineer-in-charge shall check the details given in the Contractor's monthly statement and within 14 days certify the amounts to be paid to the Contractor after taking into account any credit or debit for the month in question in respect of materials for the works in the relevant amount and under conditions set

forth in GCC Sub-Clause 51.4 [*Secured Advance*]

- 42.3 The value of work executed shall be determined by the Engineer-in-charge after due check measurement of the quantities claimed as executed by the contractor.
- 42.4 The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- 42.5 The value of work executed shall include the valuation of Variations and Compensation Events.
- 42.6 The Engineer-in-charge may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

43. Payments

- 43.1 Payments shall be adjusted for deductions for advance payments, retention other recoveries in terms of contract & taxes to be deducted at source [TDS] as per applicable law.. The Employer shall pay the Contractor the amounts certified by the Engineer-in-charge within 28 days of the date of each certificate. If the Employer makes a late payment, the Contractor shall be paid interest on the late payment in the next payment. Interest shall be calculated from the date by which the payment should have been made up to the date when the late payment is made at 6% per annum.
- 43.2 If an amount certified is increased in a later certificate or as a result of an award by the Adjudicator or an Arbitrator, the Contractor shall be paid interest upon the delayed payment as set out in this clause. Interest shall be calculated from the date upon which the increased amount would have been certified in the absence of dispute.
- 43.3 Items of the Works for which no rate or price has been entered in shall not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.

44. Compensation Events

- 44.1 The following shall be Compensation Events:
 - (a) The Employer does not give access to a part of the Site by the Site Possession Date pursuant to GCC Sub-Clause 21.1.
 - (b) The Employer modifies the Schedule of Other Contractors in a way that affects the work of the Contractor under the Contract.

- (c) The Engineer-in-charge orders a delay or does not issue Drawings, Specifications, or instructions required for execution of the Works on time.
- (d) The Engineer-in-charge instructs the Contractor to uncover or to carry out additional tests upon work, which is then found to have no Defects.
- (e) The Engineer-in-charge unreasonably does not approve a subcontract to be let.
- (f) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of the Letter of Acceptance from the information issued to bidders (including the Site Investigation Reports), from information available publicly and from a visual inspection of the Site.
- (g) The Engineer-in-charge gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.
- (h) Other contractors, public authorities, utilities, or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.
- (i) The advance payment is delayed.
- (j) The effects on the Contractor of any of the Employer's Risks.
- (k) The Engineer-in-charge unreasonably delays issuing a Certificate of Completion.
- (l) Other compensation events, listed in SCC or mentioned in contract.

44.2 If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date shall be extended. The Engineer-in-charge shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.

44.3 As soon as information demonstrating the effect of each Compensation Event upon the Contractor's forecast cost has been provided by the Contractor, it shall be assessed by the Engineer-in-charge, and the Contract Price shall be adjusted

accordingly. If the Contractor's forecast is deemed unreasonable, the Engineer-in-charge shall adjust the Contract Price based on the Engineer-in-charge's own forecast. The Engineer-in-charge shall assume that the Contractor shall react competently and promptly to the event.

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

45. Tax

45.1 The rates quoted by the Contractor shall be deemed to be inclusive of the Vat, sales and other taxes that the Contractor will have to pay for the performance of this Contract. The Employer will perform such duties in regard to the deduction of such taxes at source [TDS] as per applicable law.

46. Currencies

46.1 All payments shall be made in Indian Rupees.

47. Price Adjustment

47.1 Contract price shall be adjusted for increase or decrease in rates and price of labour, materials, fuels and lubricants and other inputs to the works in accordance with the principles and procedures outlined below. A table of adjustment data is included in the SCC which indicates the coefficients of various inputs and the sources of indices for various schedules of BOQ. If the SCC does not include a table of adjustment data this sub clause shall not apply and there shall be no price adjustment.

(a) The price adjustment according to sub para (d) below, shall apply for the work done from the start date given in the SCC up to the end of the Intended Completion Date. If there is delay in completion beyond such date for reasons attributable to the contractor, the Price Adjustment for the work carried out during such period, for reasons attributable to the Contractor, shall be regulated by sub-para (g) below.

(b) The Contract Price shall be adjusted to take account of any increase or decrease in cost after the base date, which affect the Contractor in performance of obligations under the Contract.

(c) The total value (R) of the work done during the specified period[GCC 42.1]shall be as under:

$$R= \text{SUN} (R_{S1} + R_{S2} + R_{S3} + \dots R_{Sn}),$$

Where,

'R_{sn}' is the value of work done to which the price adjustment shall be applied for the relevant schedule of Bill of Quantities (BOQ) specified in S.C.C during the specified period, and represented as under:

$R_{sn} = (V_{sn} + S_{sn})$ minus (amount of secured advance recovered in the same period + value of works executed under variations for which price adjustments will be worked separately based on terms mutually agreed between the Project Engineer and the Contractor)

where,

V_{sn} is the total value of work done during the specified period for the respective schedule of BOQ, and

S_{sn} is the secured advance paid during the specified period for the respective schedule of BOQ,

- (d) The adjustment to be applied to the amount otherwise payable to the Contractor, as valued in accordance with the appropriate schedule of BOQ and certified in Payment Certificates, shall be determined from formulae which shall be of the following general type:

$$P_n = a + b L_n/L_o + c E_n/E_o + d M_n/M_o + \dots\dots\dots$$

where,

"P_n" is the adjustment multiplier to be applied to the estimated contract value of the work carried out in period "n", this period being a month unless otherwise stated in the SCC.

"a" is a fixed coefficient, stated in the relevant table of adjustment data, representing the non-adjustable portion in contractual payments;

"b", "c", "d",... are coefficients representing the estimated proportion of each cost element related to the execution of the Works, as stated in the relevant table of adjustment data; such tabulated cost elements may be indicative of resources such as labour, equipment and materials;

"L_n"[Labour], "E_n"[Equipment], "M_n"[Material], are the current cost indices or reference prices for period "n", each of

which is applicable to the relevant tabulated cost element [*Labour, Equipment, Steel, Cement, Fuel/Lubricants, Bitumen, others*] on the date, specified in the Table-2 of Adjustment Data, prior to the last day of the period (to which the particular Payment Certificate relates); and

“L_o”, “E_o”, “M_o”,are the base cost indices or reference prices, expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the Base Date.

- (e) The cost indices or reference prices stated in the tables of adjustment data given in SCC shall be used. The base date shall be date of opening of bids.
- (f) If the Contractor fails to complete the Works within the Intended Completion date, adjustment of prices thereafter shall be made using either:
 - (i) index or price applicable for each cost element tabulated in the tables of adjustment data on the specified date prior to the expiry of the Intended Completion Date, or
 - (ii) the current index or price applicable for the period in question whichever is more favourable to the Employer.
- (g) The weightings (coefficients) for each of the factors of cost stated in the table(s) of adjustment data shall only be varied by the Engineer-in-charge if they have been rendered unreasonable, unbalanced or inapplicable, as a result of Variations.
- (h) Unless otherwise stated in the S.C.C., the Price adjustment shall be done in each monthly IPC. The coefficients and indices are given in the Tables of Adjustment Data in Contract data.

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

48. Retention

- 48.1 The Employer shall retain from each payment due to the Contractor the proportion **stated in the SCC** until Completion of the whole of the Works.

48.2 On completion of the whole of the Works, half the total amount retained shall be repaid to the Contractor and half when the Defects Liability Period has passed and the Engineer-in-charge has certified that all Defects notified by the Engineer-in-charge to the Contractor before the end of this period have been corrected.

48.3 On completion of the whole Works, the Contractor may substitute retention money (balance half) with an “on demand” Bank guarantee.

49. Liquidated Damages

49.1 The Contractor shall pay liquidated damages to the Employer at the rate per day **stated in the SCC** for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount **defined in the SCC**. The Employer may deduct liquidated damages from payments due to the Contractor.

49.1.1 Time is the essence of the contract and payment or deduction of liquidated damages shall not relieve the contractor from his obligation to complete the work as per agreed construction program and milestones, or from any of the other contractor’s obligations and liabilities under the contract.

49.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Engineer-in-charge shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in GCC Sub-Clause 43.1.

50. Bonus

Not used.

51. Advance Payment

51.1 The Employer shall make advance payment to the Contractor of the amounts **stated in the SCC** by the date **stated in the SCC**, against provision by the Contractor of an Unconditional Bank Guarantee in a form and by a bank acceptable to the Employer in amounts and currencies equal to the advance payment. The Guarantee shall remain effective until the advance payment has been repaid, but the amount of the Guarantee can be progressively reduced by the amounts repaid by the Contractor. Interest shall not be charged on the advance payment.

51.2 The Contractor is to use the advance payment only to pay for Equipment, Plant, Materials, and mobilization expenses required specifically for execution of the Contract. The Contractor shall demonstrate that advance payment has been used in this way by

supplying copies of invoices or other documents to the Engineer-in-charge.

- 51.3 The advance payment shall be repaid by deducting proportionate amounts from payments otherwise due to the Contractor, following the schedule of completed percentages of the Works on a payment basis. No account shall be taken of the advance (mobilization & equipment) payment or its repayment in assessing valuations of work done, Variations, price adjustments, Compensation Events, or Liquidated Damages.
- Secured Advance** 51.4 The Engineer shall make advance payment in respect of materials intended for but not yet incorporated in the Works in accordance with conditions stipulated in the SCC.
- 52. Securities** 52.1 The Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount **specified in the SCC**, by a bank or surety acceptable to the Employer, and denominated in Indian Rupees. The Performance Security shall be valid until a date 28 days from the date of expiry of Defects Liability Period and the additional security for unbalanced bids shall be valid until a date 28 days from the date of issue of the certificate of completion.
- 53. Dayworks** Not used
- 54. Cost of Repairs** 54.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

E. Finishing the Contract

- 55. Completion** 55.1 The Contractor shall request the Engineer-in-charge to issue a certificate of Completion of the Works, and the Engineer-in-charge shall do so upon deciding that the work is completed.
- 56. Taking Over** 56.1 The Employer shall take over the Site and the Works within seven days of the Engineer-in-charge's issuing a certificate of Completion.

- 57. Final Account** 57.1 The Contractor shall supply the Engineer-in-charge with a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Engineer-in-charge shall issue a Defects Liability Certificate and certify any final payment that is due to the Contractor within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, the Engineer-in-charge shall issue within 56 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Engineer-in-charge shall decide on the amount payable to the Contractor and issue a payment certificate within 56 days of receiving the Contractor's revised account.
- 58. Operating and Maintenance Manuals** 58.1 If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates **stated in the SCC**.
- 58.2 If the Contractor does not supply the Drawings and/or manuals by the dates **stated in the SCC**, or they do not receive the Engineer-in-charge's approval, the Engineer-in-charge shall withhold the amount **stated in the SCC** from payments due to the Contractor.
- 59. Termination** 59.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.
- 59.2 Fundamental breaches of Contract shall include, but shall not be limited to, the following:
- (a) the Contractor stops work for 28 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Engineer-in-charge;
 - (b) the Engineer-in-charge instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within 28 days;
 - (c) the Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
 - (d) a payment certified by the Engineer-in-charge is not paid by the Employer to the Contractor within 84 days of the date of the Engineer-in-charge's certificate;
 - (e) the Engineer-in-charge gives Notice that failure to correct a

particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer-in-charge;

- (f) the Contractor does not maintain a Security, which is required; and
- (g) The Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as **defined in the SCC**.
- (h) The contractor has contravened Sub-clause 7 of GCC read with SCC and Clause 9.0 of GCC.
- (i) The contractor does not adhere to the agreed construction program and agreed environmental management plan (Clause 27 of GCC) and also fails to take satisfactory remedial action as per agreements reached in the management meetings (Clause 31) for a period of 60 days.
- (j) The contractor fails to carry out of the instructions of Engineer within a reasonable time determined by the Engineer in accordance with GCC Clause 16.1 and 23.1.

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

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

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

60. Corrupt or Fraudulent Practices

60.1 If the Employer determines that the Contractor has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Employer may, after giving 14 days notice to the Contractor, terminate the Contractor's employment under the Contract and expel him from the Site, and the provisions of Clause 59.5 shall apply.

60.2 Should any employee of the Contractor be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice during the execution of the Works, then that employee shall be removed in accordance with Clause 9.1 [*Personnel*].

60.3 For the purposes of this Sub-Clause:

- (i) “corrupt practice”²⁷ is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
- (ii) “fraudulent practice”²⁸ is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
- (iii) “collusive practice”²⁹ is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
- (iv) “coercive practice”³⁰ is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- (v) “obstructive practice” is
 - (aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
 - (bb) acts intended to materially impede the exercise of the Bank’s inspection and audit rights provided for under Clause 23 [*Instructions, Inspections and Audits*].

61. Payment upon Termination 61.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer-in-charge shall issue a

²⁷ “another party” refers to a public official acting in relation to the procurement process or contract execution]. In this context, “public official” includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.

²⁸ a “party” refers to a public official; the terms “benefit” and “obligation” relate to the procurement process or contract execution; and the “act or omission” is intended to influence the procurement process or contract execution.

²⁹ “parties” refers to participants in the procurement process (including public officials) attempting to establish bid prices at artificial, non competitive levels.

³⁰ a “party” refers to a participant in the procurement process or contract execution.

certificate for the value of the work done and Materials ordered less advance payments received up to the date of the issue of the certificate, less other recoveries due in terms of contract less taxed to be deducted at source [TDS] as per applicable law and less the percentage to apply to the value of the work not completed, as **indicated in the SCC**. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer.

61.2 If the Contract is terminated for the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Engineer-in-charge shall issue a certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works, and less advance payments received up to the date of the certificate less other recoveries due in terms of the contract, and less taxes due to be deducted at source [TDS] as per applicable law.

62 Property

62.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer if the Contract is terminated because of the Contractor's default.

63. Release from Performance

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

64. Suspension of World Bank Loan or Credit

64.1 In the event that the World Bank suspends the Loan or Credit to the Employer, from which part of the payments to the Contractor are being made:

- (a) The Employer is obligated to notify the Contractor of such suspension within 7 days of having received the World Bank's suspension notice.
- (b) If the Contractor has not received sums due it within the 28 days for payment provided for in Sub-Clause 43.1, the Contractor may immediately issue a 14-day termination notice.

Section VI. Special Conditions of Contract

A. General										
GCC 1.1 (o)	The Employer is Executive Engineer, Drainage Division, Aligarh Authorized representative: Assistant Engineer, Drainage Division, Aligarh									
GCC 1.1 (r)	The Intended Completion Date for the whole of the Works shall be 3 month from the date of signing contract .									
GCC 1.1 (u)	The Engineer-in-charge is Assistant Engineer, Drainage Division, Aligarh									
GCC 1.1 (w)	The Site is located at nearby Gursahay ganj town . Kannauj									
GCC 1.1 (z)	The Start Date shall be date of issue letter to start the work									
GCC 1.1 (dd)	The Works consist of REHABILITATION OF JOR DRAIN FROM KM. 0.000 TO KM. 0.700 IN DISTT. KANNAUJ									
GCC 2.2	Sectional Completions are: the work shall be started in one weak after issue of the letter to start the work. Following are mile stones for completing at defferent stages- <ol style="list-style-type: none"> 1. Mile stone 1 in first one month – completion of earth work. 2. Mile stone 2 in next second month- completion of pucca work upto ground level. 3. Mile stone 3 in rest contract period- completion of all work 									
GCC 2.3(i)	The following documents also form part of the Contract: <i>[list documents]</i> <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="width: 10%;">S.No.</th> <th style="width: 30%;">Document</th> <th style="width: 60%;">Description of the document</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Construction Methodology</td> <td>Construction methodology given in bid amended as per comments of employer given in letter of acceptance.</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Drawing</td> <td>Index map, L-section, X-section of the drain and drawing of Proposed structures.</td> </tr> </tbody> </table>	S.No.	Document	Description of the document	1.	Construction Methodology	Construction methodology given in bid amended as per comments of employer given in letter of acceptance.	2.	Drawing	Index map, L-section, X-section of the drain and drawing of Proposed structures.
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GCC 3.1	The language of the contract is English. The law that applies to the Contract is the laws of Union of India.									

GCC 8.1	Schedule of other contractors: not required.																												
GCC 9.1	Key Personnel: not required.																												
GCC 13.1	<p>The minimum insurance amounts and deductibles shall be:</p> <p><i>[Employers should fill these columns carefully in consultation with insurance companies. It should not be left blank]</i></p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Description</th> <th>Minimum cover for Insurance</th> <th>Maximum deductible for Insurance</th> </tr> </thead> <tbody> <tr> <td>(i)</td> <td>Works and Plant and Materials</td> <td>Rs. 12 lacs</td> <td>As per rate of GIC of India plus 20%</td> </tr> <tr> <td>(ii)</td> <td>Loss or damage to Equipment</td> <td>Rs. 02.00 lacs</td> <td>As per rate of GIC of India plus 20%</td> </tr> <tr> <td>(iii)</td> <td>Other Property</td> <td>Rs. 05.00 lacs</td> <td>As per rate of GIC of India plus 20%</td> </tr> <tr> <td>(iv)</td> <td>Personal injury or death insurance:</td> <td>Rs. 01.00 lacs</td> <td>As per rate of GIC of India plus 20%</td> </tr> <tr> <td></td> <td>a)for other people;</td> <td></td> <td></td> </tr> <tr> <td></td> <td>b)for Contractor's Employees</td> <td colspan="2">In accordance with the statutory requirements applicable in India</td> </tr> </tbody> </table>	S.No.	Description	Minimum cover for Insurance	Maximum deductible for Insurance	(i)	Works and Plant and Materials	Rs. 12 lacs	As per rate of GIC of India plus 20%	(ii)	Loss or damage to Equipment	Rs. 02.00 lacs	As per rate of GIC of India plus 20%	(iii)	Other Property	Rs. 05.00 lacs	As per rate of GIC of India plus 20%	(iv)	Personal injury or death insurance:	Rs. 01.00 lacs	As per rate of GIC of India plus 20%		a)for other people;				b)for Contractor's Employees	In accordance with the statutory requirements applicable in India	
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GCC 14.1	<p>Site Investigation Reports are:</p> <ol style="list-style-type: none"> 1. Initial and final level of drain 2. Material testing reports 																												
GCC 15.1	Queries. <i>[list if appropriate]</i>																												
GCC 21.1	The Site Possession Date(s) shall be the date of issue letter to start the work																												
GCC 25.3	Fees and types of reimbursable expenses to be paid to the Adjudicator: Rs. 5000 per day and reimbursable expenses.																												
GCC 25.4	<p>The procedure for arbitration will be as follows:</p> <p>(a) In case of Dispute or difference arising between the Employer and a domestic contractor relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996. The arbitral tribunal shall consist of 3 Arbitrators one each to be appointed by the Employer and the Contractor. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties and shall act as Presiding Arbitrator. In</p>																												

	<p>case of failure of the two Arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the Arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the President of the Institution of Engineers (India).</p> <p>(b) Arbitration proceedings shall be held at Farrukhabad, India, and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English.</p> <p>(c) The decision of the majority of Arbitrators shall be final and binding upon both parties. The cost and expenses of Arbitration proceedings will be paid as determined by the arbitral tribunal. However, the expenses incurred by each party in connection with the preparation, presentation, etc. of its proceedings as also the fees and expenses paid to the Arbitrator appointed by such party or on its behalf shall be borne by each party itself.</p> <p>(d) Where the value of the contract is Rs.50 millions and below, the disputes or differences arising shall be referred to the Sole Arbitrator. The Sole Arbitrator should be appointed by agreement between the parties; failing such agreement, by the appointing authority, namely the President of the Institution of Engineers (India).</p> <p>(e) Performance under the contract shall continue during the arbitration proceedings and payments due to the contractor by the owners shall not be withheld, unless they are the subject matter of the arbitration proceedings.</p>
GCC 26.1	(a) Appointing Authority for the Adjudicator: The Chairman of the Institution of Engineers (India).
B. Time Control	
GCC 27.1	<p>The Contractor shall submit a revised Program including Environmental Management Plan for the Works (in such form and detail as the engineer shall reasonably prescribe) within 07 days of delivery of the Letter of Acceptance.</p> <p><i>[This program should be in adequate detail and generally conform to the program submitted along with bid in response to ITB Clause 5.3(k). Deviations if any from that should be clearly explained and should be satisfactory to the Engineer]</i></p>
GCC 27.3	The period between Program updates is 07 days.

	The amount to be withheld for late submission of an updated Program is <i>one thousand</i> .
C. Quality Control	
GCC 35.1	The Defects Liability Period is: 180 days including one rainy season.
D. Cost Control	
GCC 47.1	Price Adjustment: Not applicable.
GCC 48.1	The proportion of payments retained (Retention Money) shall be 6% from each bill subject to the maximum of 5% of final contract price.
GCC 49.1	<p>The liquidated damages for the whole of the Works are 0.5% per week. The maximum amount of liquidated damages for the whole of the Works is 10% of the final Contract Price.</p> <p>For milestone 1 Rs. 600.00 per day</p> <p>For milestone 2 Rs. 500.00 per day</p> <p>For milestone 3 Rs. 400.00 per day</p> <p>All works Rs. 1500.00 per day</p>
GCC 52.1	<p>The Performance Security for 5 percent of contract price plus Rs.-- as additional security for unbalanced bids[<i>in terms of ITB Clause 30.6</i>]</p> <p>The standard form of Performance Security acceptable to the Employer shall be an unconditional Bank Guarantee of the type as presented in Section X of the Bidding Documents.</p>
E. Finishing the Contract	
GCC 58.1	<p>The date by which operating and maintenance manuals are required is within 28 days of issue of certificate of completion of whole of work- within one month.</p> <p>The date by which “as-built” drawings supper imposed on working drawing in 2 sets are required is within 28 days of issue of certificate of completion of whole of the work- within one month.</p>

GCC 58.2	The amount to be withheld for failing to produce “as built” drawings and/or operating and maintenance manuals by the date required in G.C.C. 58.1 is Rs.2000.00
GCC 59.2 (g)	The maximum number of days is: <ol style="list-style-type: none">1. Mile stone 1 in first one month – completion of earth work.2. Mile stone 2 in next second month- completion of all work upto ground level.3. Mile stone 3 in rest contract period- completion of all work
GCC 61.1	The percentage to apply to the value of the work not completed, representing the Employer’s additional cost for completing the Works, is 20%.

Appendices

Salient Features of Labour Laws

SALIENT FEATURES OF SOME MAJOR LABOUR LAWS APPLICABLE TO ESTABLISHMENTS ENGAGED IN BUILDING AND OTHER CONSTRUCTION WORK

(The law as current on the date of bid opening will apply)

Labour Laws	<p>(a) <u>Workman Compensation Act 1923</u> : The Act provides for compensation in case of injury by accident arising out of and during the course of employment.</p> <p>(b) <u>Payment of Gratuity Act 1972</u>: gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed 5 years service or more or on death the rate of 15 days wages for every completed year of service. The Act is applicable to all establishments employing 10 or more employees.</p> <p>(c) <u>Employees P.F. and Miscellaneous Provision Act 1952 (since amended)</u>: The act Provides for monthly contribution by the employer plus workers @ 10% or 8.33%. The benefits payable under the Act are: (i) Pension or family pension on retirement or death, as the case may be. (ii) Deposit linked insurance on the death in harness of the worker. (iii) Payment of P.F. accumulation on retirement/death etc.</p> <p>(d) <u>Maternity Benefit Act 1951</u>: The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.</p> <p>(e) <u>Contract Labour (Regulation & Abolition) Act 1970</u>: The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided, by the Principal Employer by Law. The Principal Employer is required to take Certificate of Registration and the Contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer if they employ 20 or more contract labour.</p> <p>(f) <u>Minimum Wage Act 1948</u>: The Employer is supposed to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act if the employment is a schedule employment. Construction of Buildings, Roads, Runways are schedule employments.</p> <p>(g) <u>Payment of Wages Act 1936</u>: It lays down as to by what date the wages are to be paid, when it will be paid and what</p>
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	<p>deductions can be made from the wages of the workers.</p> <p>(h) <u>Equal Remuneration Act 1979</u>: The Act provides for payment of equal wages for work of equal nature to Male and Female workers and for not making discrimination against Female employees in the matters of transfers, training and promotions etc.</p> <p>(i) <u>Payment of Bonus Act 1965</u>: The Act is applicable to all establishments employing 20 or more employees. The Act provides for payments of annual bonus subject to a minimum of 8.33% of wages and maximum of 20% of wages to employees drawing Rs.3500/- per month or less. The bonus to be paid to employees getting Rs.2500/- per month or above upto Rs.3500/- per month shall be worked out by taking wages as Rs.2500/- per month only. The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. Some of the State Governments have reduced the employment size from 20 to 10 for the purpose of applicability of this Act.</p> <p>(j) <u>Industrial Disputes act 1947</u>: the Act lays down the machinery and procedure for resolution of Industrial disputes, in what situations, a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.</p> <p>(k) <u>Industrial Employment (Standing Order) Act 1946</u>: It is applicable to all establishments employing 100 or more workmen (employment size reduced by some of the States and Central Government to 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and get the same certified by the designated Authority.</p> <p>(l) <u>Trade Unions Act 1926</u>: The Act lays down the procedure for registration of trade unions of workmen and employers. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.</p> <p>(m) <u>Child Labour (Prohibition & Regulation) Act 1986</u>: The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulation of employment of children in all other occupations and processes. Employment of Child Labour is prohibited in Building and Construction Industry.</p> <p>(n) <u>Inter-State Migrant workmen's (Regulation of Employment & Conditions of Service) Act 1979</u>: The Act is applicable to an establishment which employs 5 or more inter-state</p>
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	<p>migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as housing, medical aid, traveling expenses from home upto the establishment and bank etc.</p> <p>(o) <u>The Building and Other Construction works (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996:</u> All the establishments who carry on any building or other construction work and employs 10 or more workers and covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the Building or construction work and other welfare measures, such as Canteens, First –Aid facilities, Ambulance, Housing accommodations for workers near the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.</p> <p>(p) <u>Factories Act 1948:</u> the Act lays down the procedure for approval at plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing 10 persons or more with aid of power or 20 or more persons without the aid of power engaged in manufacturing process</p>
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SALIENT FEATURES OF SOME OF THE MAJOR LAWS THAT ARE APPLICABLE FOR PROTECTION OF ENVIRONMENT.

<p>Laws on protection of Environment</p>	<p>1. The Water (Prevention and Control of Pollution) Act, 1974, this provides for the prevention and control of water pollution and the maintaining and restoring of wholesomeness of water. ‘Pollution’ means such contamination of water or such alteration of the physical, chemical or biological properties of water or such discharge of any sewage or trade effluent or of any other liquid, gaseous or solid substance into water(whether directly or indirectly) as may, or is likely to, create a nuisance or render such water harmful or injurious to public health or safety, or to domestic, commercial, industrial, agricultural or other legitimate uses, or to the life and health of animals or plants or</p>
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	<p>of aquatic organisms.</p> <ol style="list-style-type: none"><li data-bbox="561 233 1437 491">2. The Air (Prevention and Control of Pollution) Act, 1981, This provides for prevention, control and abatement of air pollution. 'Air Pollution' means the presence in the atmosphere of any 'air pollutant', which means any solid, liquid or gaseous substance (including noise) present in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment.<li data-bbox="561 495 1437 793">3. The Environment(Protection) Act, 1986, This provides for the protection and improvement of environment and for matters connected therewith, and the prevention of hazards to human beings, other living creatures, plants and property. 'Environment' includes water, air and land and the inter-relationship which exists among and between water, air and land, and human beings, other living creatures, plants, micro-organism and property.<li data-bbox="561 798 1437 1129">4. The Public Liability Insurance Act, 1991, This provides for public liability insurance for the purpose of providing immediate relief to the persons affected by accident occurring while handling hazardous substances and for matters connected herewith or incidental thereto. Hazardous substance means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act 1986, and exceeding such quantity as may be specified by notification by the Central Government.
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Appendix -3

Appointment of Adjudicator

Suggested Draft of Letter of Appointment of Adjudicators in civil works contracts

Sub: _____(Name of the Contract)

To

Name and address of the Adjudicator

We hereby confirm your appointment as adjudicator for the above contract to carry out the assignment specified in this Letter of Appointment.

For administrative purpose _____(*name of the officer representing the employer*) has been assigned to administer the assignment and to provide the Adjudicator with all relevant information needed to carry out the assignment on behalf of both the employer and the contractor. The services will be required during the period of contract for the work of (Name of the Contract)_____.

The Adjudicator shall visit the worksite once in 3 (three) months till the completion of the work indicated above or as specifically requested by employer/contractor for the period upto the end of defects liability period with prior intimation to the employer and the contractor. The duration of each visit shall ordinarily be for one day only. These durations are approximate and (*Name of the employer and Name of the Contractor*) may find it necessary to postpone or cancel the assignment and/or shorten or extend the duration.

The appointment will become effective upon confirmation of letter by you. The appointment of Adjudicator shall be liable for termination under a 30 (thirty) days written notice from the date of issue of the notice, if both Employer and the Contractor so desire. Also the appointment shall automatically stand terminated 14 days after the defect notice / correction period as stated in Clauses 35 and 36 of the Conditions of Contract is over.

The Adjudicator will be paid a fee of Rs. _____(Rupees _____only) per each day of visit at the worksite. The actual expenses for boarding and traveling in connection with the assignment will be reimbursed to the Adjudicator. The Adjudicator will submit a pre-receipted bill in triplicate to the employer indicating the date of the visit, fees for the visit and a proof in support of the actual expenditure incurred by him against boarding, lodging and traveling expenses after performing the visit on each occasion. The Employer will make the admissible payment(both the Employer's and the Contractor's share) to the Adjudicator within 30 days of the receipt of the bill. The Contractor's share on this account(half the paid amount) will be recovered by the Employer from the Contractor's bills against the work.

In accepting this assignment, the Adjudicator should understand and agree that he is responsible for any liabilities and costs arising out of risks associated with travel to an from the place of emergency repatriation, loss or damage to personal/professional effects and

property. The Adjudicator is advised to effect personal insurance cover in respect of such risks if he does not already have such cover in place. In this regard, the Adjudicator shall maintain appropriate medical, travel, accident and third-party liability insurance. The obligation under this paragraph will survive till termination of this appointment.

Procedures for resolution of disputes by the Adjudicator is described in the contract of _____(name of the contract) between the employer and the contractor vide clauses no.24,25 and 26 of the Conditions of Contract. Your recommendation should be given in the format attached, within 28 days of receipt of a notification of dispute.

The Adjudicator will carry out the assignment in accordance with the highest standard of professional and ethical competence and integrity, having due regard to the nature and purpose of the assignment, and will conduct himself in a manner consistent herewith. After visiting the worksite, the Adjudicator will discuss the matter with the Employer and if necessary with the Contractor before arriving at any decision.

The Adjudicator will agree that all knowledge and information not within the public domain, which may be acquired while carrying out this service shall be all time and for all purpose, regarded as strictly confidential and held in confidence, and shall not be directly or indirectly disclosed to any party whatsoever, except with the permission of the employer and the contractor. The Adjudicator's decision should be communicated in the form of a speaking order specifying the reasons.

The Adjudicator will agree that any manufacturing or construction firm with which he might be associated with, will not be eligible to participate in bidding for any goods or works resulting from or associated with the project of which this consulting assignment forms a part

Read and Agreed

Name of Adjudicator
Signature

Place:

Date:

Name of Employer
Signature of authorized representative of Employer

Name of the Contractor
Signature of authorized representative of Contractor

Attachment: Copy of contract document between the employer and contractor and format for recommendation.

SUMMARY OF ADJUDICATOR'S RESPONSIBILITIES

The Adjudicator has the following principal responsibilities:

1. Visit the site periodically.
2. Keep abreast of job activities and developments.
3. Encourage the resolution of disputes by the parties.
4. When a dispute is referred to it, conduct a hearing (no legal presentation), complete its deliberations, and prepare a recommendations in a professional and timely manner(as per sample format)

Sample Format of Adjudicator’s Recommendation

[Project Name]
Recommendation of Adjudicator

Dispute No. XX [*NAME OF DISPUTE*]

Hearing Date: _____

Dispute

Description of dispute. A one or two sentence summation of the dispute.

Contractor’s Position

A short summation of the contractor’s position as understood by the Adjudicator.

Employer’s Position

A short summation of the Employer’s position as understood by the Adjudicator.

Recommendation

The Adjudicator’s specific recommendation for settlement of the dispute. (*The recommended course is consistent with the explanation*).

Explanation

(*This section could also be called Considerations, Rationale, Findings, Discussion, and so on.*)

The Adjudicator’s description of how each recommendation was reached.

Respectfully submitted,

Date : _____

Date : _____

Date : _____

Description of the works/Scope of works

1. General –

The Government of Uttar Pradesh has received through Government of India, a credit from the International development, Association towards the cost of the UPSLR-III Project and it intends to apply part of the proceeds of this credit towards payments under the contract for **Rehabilitation of Jor Drain** with Earth Work & Pucca work in Distt. Aligarh The work of rehabilitation of internal section of the drain. Following works are included in the rehabilitation package.

- (a) Rehabilitation of internal and outer earthen section.
- (b) Construction of New 02 Nos VRB at Km.0.520 and km 0.600
- (C) Construction of New Toe Wall at km 0.050
- (D) 04 Nos Inlets for 02 Nos each New VRB

Methodology of works

The work under the proposed package comprises for **REHABILITATION OF JOR DRAIN FROM KM. 0.000 TO KM. 0.700 IN DISTT. KANNAUJ** as described earlier in the description of the works. The works are spread over Aligarh District of U.P.

The works involves rehabilitation of internal and external section of the drain along with Construction of Four no. **02 N0 VRB at Km.0.520 and km 0.600, New Too Wall at km 0.050, 04 Nos Inlets for 02 Nos each New VRB** earlier in description of the work as per designed, drawing & technical specifications, Since the major portion of these works shall be taken up in non rainy period, there is greater need of advance planning for arrangement of labour, material, equipments and managerial inputs. Planning should be based on these inputs.

1. Before commencement of earth work initial levels shall be taken jointly by the department and authorized representatives of the contractor and the same is to be recorded in the measurement book under their signatures. The certified copy of which will be made available to the contractor on demand. All the survey and leveling equipments and the labours required to carry out leveling, surveying and giving layout will be arranged by the contractor and intimated to the department. The cost of these items will be deemed to be included in the unit rates of the items of civil works of the Agreement.

Engineer of Drainage consultant shall check at 10% initial measurements Staggered in entire length.If required levels may also be checked by the officer or representative of the department in presence of the authorized representative of the contractor. The representative of the contractor shall have to record acceptance of levels taken jointly on Measurement Book (MB) before start of the work. The work shall be carried out as per drawing and Technical specifications.

The levels as recorded in M.B. shall be used for preparing working L-section and cross sections.

The procedure for taking final levels shall be same as followed in initial levels and these final levels will be at the location of initial levels.

2. Site Order Book system shall be introduced by the department and would be implemented by the contractor to ensure proper quality of work.

3. As the work mainly involves about earth work, and about concreting, the bidder may have to complement with the deployment of equipments as warranted to ensure completion of works within the stipulated period.

6. The works executed by the contractor shall be subjected to departmental checks and third party checks by independent technical examination/quality control agency. Compliance against such observations made by the checking agency will have to be ensured by the contractor within time specified by the checking agency.

7. Before carrying out any repairs, the structure should be thoroughly cleaned to remove any deleterious material so that the surface becomes free of any loose material as per specifications and directions of the Engineer.
 1. Construction of structures taken up must be finished before onset of coming monsoon other wise the department may face irreparable loss which will be the responsibility of the Contractor.
 2. Since the rehabilitation of works for sustainability includes involvement of farmers/ SIC in planning design construction operation and maintenance, these stake holders shall be kept informed about the construction activities. Suggestions of SIC/stake holders and social/ environmental safeguards shall be incorporated in the construction activities to the extent possible.
 3. Due care shall be taken by contractor to ensure - conservation of nearby water bodies, environmental and social safeguards while execution of work.

TECHNICAL SPECIFICATION FOR REHABILITATION OF DRAIN

Earth Work in drain

(a) General

All works shall be carried out according to the relevant Indian Standard Code of practice and IRC code and standard for earth work, UPID specification for earth work as far as applicable, and as directed by Engineer-in-charge, where necessary. All work shall be carried out as per design and drawings and as per instruction of Engineer-in-charge.

(b) Setting Out

- Before start of the work centre line of the drain shall be marked by suitable and firm pegs each at about 50 m. interval in straight reaches. In the curved reaches of the escape, the curve shall be laid out at top and bottom edges of excavation. The centre line in such reaches shall be marked by pegs at an interval of 25 m. to ensure smooth curve profile during excavation.
- All levels of drain profiles shall be referred to a specified and established firm bench mark not subject to subsidence or interference. Temporary bench mark pillars shall be constructed at suitable locations for reference of levels during construction.
- Kuchha namunas shall be made before start of earthwork at every 200 m interval, or as directed by Engineer-in-Charge before start of earth work.
- Dagbels should be laid down on the ground/existing escape indicating the bed, the berm and the spoil banks for the proper execution of earth work in drain and these shall be subject to checking by the Engineer-in-Charge. The contractor shall provide all facilities and assistance as may be required by the Engineer-in-Charge for the checking of the dagbel lines etc. The line/dagbels shall be preserved carefully by the contractor until they have served their purpose. Work shall be suspended at such points and for such reasonable time as may be required for checking layout. No compensation will be granted to the contractor for the required assistance in the checking of levels for loss of time on account of such suspensions of works.

(c) Clearing of Land

Before starting earthwork in drain, the area demarcated for excavation, construction of spoil banks/walkway, section, berms etc. shall be cleared off bushes, vegetation, rubbish, roots and any other objectionable material. All timber, logs of trees and fuel wood inside the demarcated land shall be the property of Government burnt, used or removed by the contractor or his labour without prior written permission of the Engineer-in-Charge. The land so cleared shall be maintained free from any growth and vegetation during progress of construction.

(d) Drawings

All works shall be carried out in accordance with the drawings to be supplied by the Engineer-in-Charge duly signed by Engineer from time to time. Construction drawings will be issued in stages, by the department before the start of actual construction of the structures.

After careful study of the drawings issued by the Employer, Contractor shall prepare where necessary supplementary drawings and fabrication drawings with field/construction information and shall submit the same to the Engineer for approval prior to construction. If some drawings are not available at the start of execution, the contractor shall make the construction programme so that work on drawings available will be taken up first.

(e) Jungle Clearance

- The work consists of removing Jungle namely Behaya and Gondi Grass. Before removing jungle, its area shall be measured and be recorded in measurement book in presence of contractor or its authorized representative, separately. Contractor or his representative shall give his acceptance of measurements taken by putting his sign on measurement book. This item shall be paid only in the reaches and places where either excavation of earth is done manually or where no excavation is done but only Jungle clearance is involved. If the contractor prefers to do earthwork in excavation by machines, then in such reaches and places this item shall not be paid.
- Before start of excavation of earthwork manually, beheads and gondi grass shall be cut and disposed off as per direction of Engineer-in-Charge.
- Its quantity shall be measured in square metre.

(f) Excavation

- Before commencement of the excavation in any reach the contractor shall obtain in writing from the Engineer-in-Charge instruction and schedule of quantities in regard to the disposal and utilization of the excavated materials.
- The contractor shall excavate whatever material may be encountered up to the depth of excavation shown on the Cross-section of the escape.
- Excavation to be carried out shall strictly conform to the plans, dimensions and level shown on the profile of excavation in the Cross-sections and Longitudinal section. The bed of the escape will have a longitudinal gradient as given in L-section and will be kept level transversely. The side slope shall also conform to those given in the drawings and shall be neatly finished. Any excavation below the prescribed bed level shall not be paid.
- The tendered rate shall include excavation and disposal of any type of soil like sand, silt, clay, kankar, chhari, moist or wet earth including cost of dewatering. No claim on account of the nature of the strata or on account of difficulties met with in excavation and disposal of the excavated material shall be entertained. The contractor is advised to see the site conditions thoroughly and make preliminary investigations in the manner he likes. This shall also include all leads, lifts, removal of tattis, matams and labour charges occurring in measurement and checking of the work during construction of escape.

(g) Disposal of Excavated Earth

- The excavated earth shall be disposed off to right side of the drain, so as to make 1.5 meter wide walkway. In case, in reaches, land is not available and / or extra earth is available, disposal may be done on both the banks with the permission of the Engineer-in-charge. All such disposal shall be done at least

one meter away from the outer edge of the section of the escape. The height and width of earthen banks shall be decided by the Engineer-in-charge. The side slopes of earthen banks shall generally be 1.5:1. Dressing of disposed earth in proper shape and slope shall be ensured. The earth to be used in banks/walkway shall be thoroughly broken of clods before lying.

- Contactor shall be responsible that no unwanted disposal is being made in the work area. Any such disposal shall be removed at his own cost to the satisfaction of Engineer-in-Charge. If anything found contrary, the contractor shall arrange to rectify at his own cost within the environmental regulations.

(h) Measurements

The measurement shall be taken correct to a cm. Before commencement of earthwork in escape, initial cross sections at every 50m interval in straight reaches and at every 25 m interval in curved reaches shall be taken jointly by the department and authorized representative of the contractor, which shall be recorded in M.B. Contractor or his authorized representative shall have to record his acceptance of levels and measurements on the M.B. before start of work. Similarly after completion of earthwork, as per design / drawing, final cross sections shall be taken at the same locations. All such cross sections shall be prepared on auto CAD which shall be signed by the contractor also. The final quantity of earthwork shall be calculated by these levels and measurements.

All measurers for facilitating recording of cross sections such as setting out of works, arrangement of necessary equipments and labour shall be provided by the contractor at his own cost.

4.3.2 RCC Works

(a) Earthwork in Foundation

Foundation trenches for fall shall be dug to the exact length & width of the foundation concrete. The sides shall be left plumb where the nature of the soil permits it, but the sides must be sloped back or shored up carefully when the soil appears likely to fall in or the depth of trench exceeds 1.5m. The disposal of excavated material shall be as per direction of Engineer-in-charge.

The bottom of the foundation trenches must be perfectly leveled both longitudinally and transversely. The bottom of the trenches shall be slightly watered and well rammed. If excavation is done deeper than shown in the drawing, the contractor shall fill the extra depth with concrete at his own expense and grade of concrete will be same as foundation concrete, Roots of all trees and plants encountered in digging trenches shall be removed carefully, if possible. Otherwise, they shall be cut up to a distance of 30cm. on sides and bottom of trench and shall then be burnt and smeared with boiling coal tar at the expense of contractor. If boulders are found in bed they shall be removed at contractor's own cost. The extra depth done by removal of roots of trees or removal of boulders from the trench shall be filled with concrete of the same grade as that of foundation concrete at contractor's own cost.

(b) Cement Concrete

(i) General

All works shall be carried out in accordance with IS codes, UPID Specification and as directed by Engineer-in-charge. The works shall be

carried out in a workman like manner to the lines, grades and dimensions shown on drawings.

(ii) Composition

The cement concrete shall be composed of cement, coarse aggregate, fine aggregate, water and, if considered necessary by Engineer-in-Charge, an air entraining admixture. The ingredient shall conform to IS Specification/UPID Specification and as per directions of Engineer-in-charge. The design of each concrete mix will be based on the water cement ratio necessary to secure a plastic workable mix for the specific condition of placement and when properly cured shall give a product having durability and strength in accordance with the requirement of these specification.

(iii) Materials

1. Cement - Cement to be used in the works shall be ordinary Portland cement, 33 grade conforming to IS : 269, or 43 grade (IS 8112) or 53 grade (IS 12269)
2. Coarse aggregate – Coarse aggregate shall consist of clean hard, strong, dense, non-porous and durable pieces of crushed stone, crushed gravel, natural gravel or a combination thereof. The aggregate shall not consist of pieces of disintegrated stones, soft, flaky, elongated particles, alkali vegetable matter of other deleterious material. Coarse aggregate shall confirm to IS: 383 and tests for conformity shall be carried out as per IS: 2386 Part-I and VIII. The gradation of the coarse aggregate shall be as follows:

Table 4.3.1

IS Sieve Size	Percent by Weight Passing the Sieve
40mm	100
20mm	95-100
10mm	25-55
4.75mm	0-10

3. Fine aggregate - Fine aggregate shall consist of clean, hard, strong and durable pieces of crushed stone, crushed gravel or a suitable combination of natural sand, crushed stone or gravel. They shall not contain dust, lumps, soft or flaky, materials, mica or organic impurities other deleterious materials, fine aggregate having positive alkali-silica reaction shall not be used. Sand of fineness modulus of not less than 2.0 may be used as fine aggregate. Grading of fine aggregate to be used in concrete, masonry and plaster is outlined in table 4.3..2.

Table: Gradation of sand to be used in concrete, Masonry and Plaster

IS Sieve Size	For Concrete works		For Masonry work	For Plaster work
	Zone I	Zone II	Zone III	Zone IV
	% age passing by weight			

10mm	100	100	100	100
4.75mm	90-100	90-100	100	95-100
2.38mm	60-95	75-100	90-100	95-100
1.18 mm	30-70	55-90	70-100	90-100
600 micron	15-34	35-59	40-100	80-100
300 micron	5-20	8-30	5-70	20-65
150 micron	0-10	0-10	0-15	0-50

Note: - Sand conforming to grading for zones III & IV (as per IS 383) can also be used for concrete works except that the sand conforming to grading for zone IV shall not be used for reinforced concrete work.

Water used for mixing and curing shall be clean and free from injurious amount of oils, acids, alkies, salt, sugar organic materials. Potable water is generally considered satisfactory for mixing concrete.

(iv) Proportioning of Concrete

The proportion of all materials entering into the concrete shall be as directed by Engineer-in-charge. The contractor shall provide all necessary equipment and plant to determine and control the actual amount of material entering into each batch. The coarse & fine aggregates, water and cement shall be batched and measured by weight. Specified air entraining agent or water proofing compound shall be batched or added separately to the mix as and if directed by Engineer-in-charge.

The design of concrete mix shall be done only for the specified materials to be procured for works at site in accordance with the relevant specifications.

(v) Batching of concrete by weight & mixing

- (a) The plant should be able to handle all the coarse aggregate, fine aggregate, water and cement. Air entraining agent and water proofing compound (if directed to be used by the Engineer-in-Charge) can be batched by weight separately and added direct to concrete mixer. The weigh batchers should be capable of weighing, controlling and determining accurately the prescribed amount of various materials for each mix. Facility should be available to obtain sample of each ingredient entering the mixer. The contractor shall maintain a record of the number of batches mixed and other details required for checking the correctness of the mix as per directions of the Engineer-in-charge.
- (b) Suitable hopper type mixers so as to mix uniformly the various ingredients and discharging the mix without segregation should be used. No hand mixing shall be allowed.
- (c) The time for obtaining uniform mix for a particular type of job shall be initially prescribed by the Engineer-in-Charge and the same time shall thereafter be adhered to for mixing all subsequent batches of that concrete, unless revised by the Engineer-in-Charge. The material shall be mixed for a period of not less than 2 minutes and until a uniform colour and consistency are obtained. The time shall be counted from the moment all the materials have been put into the drum.

Note: - 1. In case the quantity of concrete is small, the Engineer-in-Charge may allow nominal mix concrete instead of design mix concrete as per clause 9.3 of IS 456-2000

2. Cement level to be used in concrete mixes of various grades is given in table as below:

This is for reference for working out unit costs while quoting:

Table

Grade of Concrete	Cement level (Kg/M³ concrete) with coarse aggregate of maximum size of 20 mm
M 10	221
M 15	288
M 20	366

If the actual cement level used is more than that given in the above Table, as warranted by the 'Mix Design', the Contractor will be paid for the extra cost of Cement used in the Concrete Mix. In case the actual cement used is less, as per the 'Mix Design' requirement, the cost of cement used less will be deducted from the Contractors bill. The Engineer-in-Charge will intimate the cement level to be used (in the relevant grades of Concrete) to the Contractor from time to time. Cost of cement will be decided by the Engineer-in-Charge.

(vi) Consistency

The quantity of water shall be regulated by carrying out regular slump tests. The slump required for profile bed bars using vibrator shall be restricted to 25 mm.

(vii) Placing & Curing

(i) Wooden / metal shuttering of suitable thickness and properly strengthened, cut in shape and size of the concrete profile of the structure having smooth surface finish shall be used for placement of concrete.

(ii) The entire concrete used in the work shall be laid gently (not thrown) in layers not exceeding 15cm thick and shall be thoroughly vibrated by means of mechanical vibrators till a dense concrete is obtained. The thickness may vary as per direction of Engineer – in – charge. The layers of concrete shall be so placed that the bottom layer does not finally set before the top layer is placed. During cold weather concreting shall not be done when temperature falls below 4.5⁰ C.

(iii) Curing of CC, RCC and masonry work shall be suitably protected with moist gunny bags, or any other methodology approved by Engineer-in-Charge against quick drying. The curing shall be done for a minimum period of 14 days.

(viii) Quality

Regular mandatory tests on consistency & workability of the fresh concrete shall be done to achieve the specified compressive strength of concrete. These

tests shall be carried out as per IS: 516. The required compressive strength of the concrete is given below:

M- 20

Min. compressive strength at 7 days – 13.5 N/mm²

Min. compressive strength at 28 days – 20 N/mm²

M- 15

Min. compressive strength at 28 days – 15 N/mm²

A Sampling and acceptance criterion of concrete mix as given in points 15 and 16 of IS 456-2000 shall be adopted. Some of its parts are reproduced below: worked out to nearest 0.01 cubic meter.

(c) Brick Masonry in 1:4 Cement and sand

I. Material

(i) Quality of bricks

a) (IS 3495) Bricks shall be made of from good brick earth and shall be either machine moulded or table moulded with sand. The brick earth shall be free from all traces of gravel, kankar or ash or other alkaline deposits. Bricks shall have a uniform deep cherry red or copper colour, shall be thoroughly burnt but not over burnt and regular in shape. These edges must be straight, square and the bricks must emit a clear ringing sound on being struck. They must be free from cracks, chips, flaws and stones or lumps of any kind. They should not absorb water more than 14 percent by weight after immersion in cold water for 24 hours & show no efflorescence. Minimum compressive strength shall not be less than 150kg per Sq. Cm. for average of 5 specimens.

Size of Bricks shall be 230x 110x 70 mm .Tolerance of ±5 percent may be allowed.

Before the starting brick work at site, they shall be got approved at the site by the Engineer-in-charge of the work. Any sub standard brick carried to site shall be rejected and the contractor shall have to remove the rejected bricks at his own cost within 24 hours of their rejection.

b) Cement: Same as given in above item no. 2 for Cement Concrete.

c) Sand: Sand shall consist of natural sand, crushed stone or crushed gravel or a combination of any of these. It shall be hard, durable, clean and free from adherent coating and organic matter and shall not contain clay balls, harmful impurities such as iron pyrites, alkalis, salts, coal, mica, or other materials in such form or in such quantities to affect adversely the hardening, the strength, durability etc.

(ii)Proportioning & Mixing of Mortar

For preparation of mortar, cement & sand shall be mixed in proportion of 1:4/1:3 (as the case may be). Cement shall be proportioned by weight taking the unit weight of cement as 1.44 tones per cubic metre and sand shall be proportioned by volume taking into account due allowance for bulking. All mortar shall be mixed with a minimum quantity of water to produce desired workability consistent with maximum density of mortar.

The mortar shall be mixed in a mechanical mixer. No hand mixing shall be allowed unless otherwise permitted by the Engineer-in-charge in an exceptional case. The mortar on mixing shall be consumed preferably, within 30 minutes. In case the initial setting has begun, the re-tempered, partially set or lumpy mortar shall not be allowed to be used and shall be rejected and removed from the site by the contractor at his own cost.

Control shall be exercised on water content and it shall be ensured that the slump is kept between 4 cm. to 5 cm. The quantity of water to be added shall not exceed 46 liter per bag of cement.

(iii) Curing

The mortar is likely to dry up before it has attained its final set and may crumble. This shall be prevented by keeping the brickwork constantly wet for at least seven days.

(iv) Measurement

Measurement of brickwork will be made only to the neat lines of the structures as indicated on the drawing or as established by the Engineer-in-charge. Dimensions shall be measured nearest to 1 cm. The areas shall be worked out to nearest 0.01 square meters. The cubic contents shall be worked out to nearest 0.01 cubic meters.

(d) Pointing

Cement and Sand in the mortar shall be in a proportion as specified in the drawing. The preparation of mortar shall be done as specified in paragraph above.

(i) Struck Pointing

Pointing shall be done while the mortar in the joints is still green. The edge of the original mortar shall be struck to a slope, recessing it to about 6 mm or as specified in the drawing from the upper edge of the horizontal joint and slopping it to meet the edge of the brick on lower edge of the joint. The vertical joints shall be struck semi circular by means of an iron tool 6mm in diameter.

After pointing is completed, all mortar shall be washed from the face of the wall which shall be kept wet for 7 days.

(ii) Measurement

Pointing shall be measured in length and width of the surface pointed.

Dimension shall be measured nearest to 1.0 cm. The area shall be worked out nearest to 0.01 sq.m.

(c) Specification of repairs of RCC Works

Repairs of Masonry and CC Works

The work involved in repairs to masonry works shall mostly be by way of joining new masonry / CC / RCC with old masonry, in abutments, piers, wing walls, crest, railing/parapet of bridges, head and cross regulators, falls, weirs tail wall, siphons etc. In such situations the exposed joining surface of the set masonry / CC shall be cleaned, roughened and wetted so as to affect the best possible bond with the new work. All loose and set brick and mortar/CC shall be removed to the extent necessary. In the case of vertical or inclined joints, it shall be

further ensured, so that proper bonds between the old and new masonry/CC is obtained by interlocking the bricks/CC. Any portion of brick/CC work that has been completed shall remain undisturbed, until thoroughly set. The brick masonry shall generally conform to the requirements of IS 2212 “Code of practice for brick works” and the CC/RCC works to IS: 456 Plain and Reinforced Concrete Code of practice. The repairs shall be carried out to bring the structure to its original profile and the same shall match/merged with the existing structure.

While carrying out masonry work, templates prepared to the correct shape and approved by competent authority shall be used to ensure correct batter as well as correct shape of masonry specially cut and ease water end. The finished work shall be checked at every stage by competent authority to ensure that it has the correct shape and batter as required by design.

4.3.6 QUALITY CHECKING OF WORK ACTIVITIES

- (i) The tests shall be carried out in construction of RCC work. The quality checking of work activities shall be done by the contractor as per requirement, and third party technical checking by consultancy services. Second party checking shall be done by the department to the frequency considered necessary by the Department. Contractor shall keep the records of all tests as required by various IS Codes and as per instructions of Engineer-in-charge. All tools, men and materials, testing kits etc. needed for works shall be arranged by contractor for which no extra payment shall be made. The Department shall also keep permanent record of quality control tests.
- (ii) In all works it is desired to control the quality and standard of materials and control of confirmation that the required shape, dimension, strength etc. of the works are achieved.
- (iii) The tests shall be carried out as per relevant Indian Standard Codes and other Standard Codes. The frequency of testing is defined in the codes. Some of the tests (but not limited to these tests) to be performed for quality checks are given below:

- Cement:** (Initial / final setting time, Compressive strength, Specific gravity, Soundness. Fineness Chemical analysis)
- a) Aggregates:** (Sieve Analysis/ Fineness modulus Moisture Absorption, Bulkage. Flakiness/ Elongation Index, Impact Value, Los Angeles Abrasion Value, Crushing Value, Soundness, Organic impurities)
- c) Concrete:** (W.C. Ratio, Slump test, Compressive strength, Moisture content, Water absorption, Density, Drying shrinkage, Non-Destructive testing (NDT), Mix Design, Compression testing of cubes/ cylinders, Air content of concrete, Accelerated Curing Test)
- d) Bricks:** (Water absorption, Density, Size, compressive strength, Efflorescence)

Bill of Quantities

REHABILITATION OF JOR DRAIN from km. 0.000 to km. 0.700 in DISTT. Kannouj

Sl. No	Description of item (with brief specification and reference to Book of specification)	Unit	Qty.	Rate	
				In figure	In words.
A	Earthwork				
1	Earth work in drain including lead up to 30mtr. and lift up to 1.5mtr. with rough dressing.	M ³	1033.00		
2	Extra for dressing of disposed earth on bank of drain	M ³	1033.00		
3	Earth work in foundation in Dry Ordinary soil.	M ³	1.00		
4	Making profile with 1:2:4 cement concrete	M ³	1.00		
5	Centering & Shuttering for Profile.	M ²	6.00		
6	Jungle clearance on banks of drain before E/W	M ²	1680.00		
7	S/F of Sign Board	Nos	1		
B	Pucca Work				
8	Earth work in making bundha U/s & down stream of site Removing after completion of work	M ³	22.00		
9	Making road diversion earth work with dressing and ramming	M ³	419.00		
10	Removal of diversion after completion of work	M ³	419.00		
11	Making ramp	M ³	157.00		
12	Supply & fixing of caution board	Nos	4		
13	E/W in excavation of foundation in all type of soil including all lift and back filling	M ³	380.00		
14	Cement concrete 1:3:6 incement course sand and stone ballast 20-40mm mixing & laying in foundation	M ³	37.00		
15	M-150 class Brick work in 1:4 cement & course sand mortar	M ³	105.60		

16	C.C 1:2:4 cement, Course Sand & Stone Ballast 10-20 mm	M ³	0.50		
17	Cement pointing struck deep in 1:2 cement fine sand mortar	M ²	114.00		
18	Centering & shuttering for slab & bed block	M ²	63.00		
19	R.C.C. work in slab & Bed block in 1:1½:3 cement c.sand & 20mm nonimal size stone grit.	M ³	19.6		
20	C.C. work in 1:1:2 in wearing coat on top of slab	M ³	2.9		
21	Mild steel or reinforcement work in slab and bed block.	MT	1.4		
22	S/E for contraction joint filler material	M ²	7.5		
23	S/F 75mm dia PVC drainage pipe	No	8.00		
24	S/F of Bench mark plate marble stone size 150x150x25mm	No	2.00		
25	S/F of Wheel guard	No	8.00		
26	Dewatering by 5.00 HP Pump	Hrs.	40		
27	S/F of year mark marble plate size 300x300x25mm	No.	2		
28	Brick on edge soiling on Ramp	M ²	195		
29	S/L 450 mm dia NP-3 Hume Pipe	RM	2.50		

Signature of Contractor

Note:

- (1) Item for which no rate or price has been entered in 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 (refer: ITB Clause 13.2 and GCC Clause 43.3).
- (2) Unit rates and prices shall be quoted by the bidder in Indian rupee [ITB Clause 14.1].
- (3) Where there is a discrepancy between the rate in figures and words, the rates in words will govern. [ITB Clause 27.1(a)]
- (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 [ITB Clause 27.1 (b)].

Signature of Contractor

Section X. Security Forms

Samples of acceptable forms of Bid, Performance, and Advance Payment Securities are provided in this Section X. Bidders shall not complete the Performance and Advance Payment Security forms at this stage of the procurement process. Only the successful Bidder shall be required to provide these two securities.

Forms of Securities

Acceptable forms of securities are annexed. Bidders should not complete the Performance and Advance Payment Security forms at the time. Only the successful Bidder will be required to provide Performance and Advance Payment Securities in accordance with one of the forms, or in a similar form acceptable to the Employer.

Annex A :	Bid Security (Bank Guarantee)
Annex B :	Performance Bank Guarantee
Annex B1 :	Performance Bank Guarantee for Unbalanced Items
Annex C :	Bank Guarantee for Advance Payment

Form of Bid Security (Bank Guarantee)

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

KNOW ALL PEOPLE by these presents that We _____ [name of bank] of _____ [name of country] having our registered office at _____ (hereinafter called "the Bank") are bound unto _____ [name of Employer] (hereinafter called "the Employer") in the sum of _____³¹ for which payment well and truly to be made to the said Employer the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of _____ 19____.

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 of 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 of 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 28.

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

This Guarantee will remain in force up to and including the date _____³² days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, 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 OF THE BANK _____

WITNESS _____ SEAL _____

[Signature, name and address]

³¹ 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 of Bidders.

³² 45 days after the end of the validity period of the Bid.

Performance Bank Guarantee

To: _____ [name of Employer]
 _____ [address of Employer]

WHEREAS _____ [name and address of Contractor] (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. _____ dated _____ to execute _____ [name of Contract and brief description of Works] (hereinafter called "the Contract");

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

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

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of _____ [amount of guarantee]³³ _____ [in words], such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of _____ [amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

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

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

This guarantee shall be valid until.....(i.e.) 28 days from the date of expiry of the Defects Liability Period.

Signature and seal of the guarantor _____
 Name of Bank _____
 Address _____
 Date _____

³³ An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract and denominated in Indian Rupees.

PERFORMANCE BANK GUARANTEE (for unbalanced items)

To: _____ [name of Employer]
 _____ [address of Employer]

WHEREAS _____ [name and address of Contractor] (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. _____ dated _____ to execute _____ [name of Contract and brief description of Works] (hereinafter called "the Contract");

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

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

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of _____ [amount of guarantee]³⁴ _____ [in words], such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of _____ [amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

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

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

This guarantee shall be valid until.....(i.e.) 28 days from the date of issue of the certificate of completion of works.

Signature and seal of the guarantor _____
 Name of Bank _____
 Address _____
 Date _____

³⁴ An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract and denominated in Indian Rupees.