

**Ministry of Jal Shakti
Department of Water Resources, RD & GR Division
Central Water Commission
River Data Compilation-I Directorate**

**NATIONAL COMPETITIVE BIDDING FOR
(Two-Envelope Bidding Process with e-Procurement)**

**SUPPLY OF WATER QUALITY TESTING
GOODS/EQUIPMENT**

IFB No.: NHP/2020-RDC-1/03

Date of issue: 03.01.2020

**Director, RDC-I Directorate,
Central Water Commission,
Wing-V, Ground Floor, West Block 2,
R K Puram, Sector-1, Pin code 110066**

SECTION I: INVITATION FOR BIDS (IFB)

NATIONAL COMPETITIVE BIDDING FOR
SUPPLY OF WATER QUALITY TESTING GOODS/EQUIPMENT
(Two-Envelope Bidding Process with e-Procurement)

INVITATION FOR BIDS (IFB)
E-Procurement Notice

Date : 03.01.2020

Loan No.: 8725IN

IFB No.: NHP/2020-RDC-1/03

1. This Invitation for Bid follows the General Procurement Notice for this Project that appeared in Development Business on 21.9.2016
2. The Government of India has received financing from the World Bank towards the cost of National Hydrology Project and it is intended that part of the proceeds will be applied to eligible payments under the contract for supply of Water Quality Testing Goods/Equipment's
3. The Director, River Data Compilation -1 Dte, Central Water Commission, Department of Water Resources, River Development and Ganga Rejuvenation, Ministry of Jal Shakti, now invites online bids from eligible bidders for supply of 04 nos. of Gas Chromatograph Mass Spectrometer (GCMS) and 03 nos. of Induced Coupled Plasma Mass Spectrometer (ICP-MS) at the location mentioned below to be delivered within 120 days of issuing of the supply order.

S.No	Name of Organisation	Address of Delivery	No. of GCMS	No. of ICPMS
1.	Yamuna Basin Organisation, CWC	National River Water Quality Laboratory, Yamuna Basin Organisation, Central Water Commission, Kalindi Bhawan, B5, Tara Crescent Road, Qutub Institutional Area, New Delhi-110016	01	01
2.	Krishna Godavari Basin Organisation, CWC	Krishna Godavari Basin Organisation, Central Water Commission, Krishna Godavari Bhawan, 1 st Floor, House No. 11-4-648, A.C. Guards, Hyderabad-500004	01	0
3.	Brahmaputra & Barak Basin Organisation, CWC	Middle Brahmaputra Division, Central Water Commission, Behind Adabari Bus Stand, Post- Jalukabari, Guwahati- 781024	01	01
4.	Upper Ganga Basin Organisation, CWC	Middle Ganga Division-III, Central Water Commission, Akashdeep, 2 nd Floor, Panna Lal Park, Varanasi-221002	01	01
	Total..		04	03

4. Bidding will be conducted through the National Competitive Bidding (NCB) procedures agreed with World Bank. The bidding is open to all eligible bidders as defined in the Bank's Procurement Guidelines. In addition, please refer to paragraphs 1.6 and 1.7 of the Guidelines setting forth the World Bank's policy on conflict of interest.
5. The prospective bidders are required to register on e-procurement website i.e. <https://eprocure.gov.in/eprocure/app> at no cost and prior to the submission of proposals. The bidders are also required to have a Digital Signature (DSC) from one of the Government of India authorized Certifying Authorities in order to submit a proposal online at the web address indicated above (<https://eprocure.gov.in/eprocure/app>), The list of the authorized Certifying Authorities can be found on <http://www.cca.gov.in/cca/>.
6. Bids must be submitted online on <https://etender.up.nic.in> (website) on or before the date and time for receipt of bids, and the 'Technical Part' of bids will be opened online on the specified time and date for opening of bids, as given above. The "Financial Part" shall remain unopened in the e-procurement system until the second public Bid opening for the financial part. Any bid or modifications to bid (including discount) received outside e-procurement system will not be considered. If the office happens to be closed on the date of opening of the bids as specified, the bids will be opened on the next working day at the same time. The electronic bidding system would not allow any late submission of bids.
7. Intending Bidders are advised to visit again NIC e-procurement web site URL <https://eprocure.gov.in/eprocure/app> and NHP website <http://nhp.mowr.gov.in> at least 1 days prior to closing date of submission of tender for any corrigendum / amendment.
8. All Bids must be accompanied by a Bid Security as **specified in Bid Document** drawn in favour of **Deputy Director, River Data Directorate, Central Water Commission, New Delhi**. Bid security will have to be in any one of the forms as specified in the bidding document and shall have to be valid for 45 days beyond the validity of the bid. Procedure for submission of bid security is described in Para 9.
9. The bidders are required to submit (a) original bid security in approved form; and (b) original affidavit regarding correctness of information furnished in bid document before **25.02.2020; 14:30 Hrs** in a separate envelop to **Director, River Data Compilation-I Dte, Central Water Commission, Wing 5, Ground Floor, West Block-II, R.K.Puram, New Delhi-110066, Tel & Fax: 011-26181267, E-mail: rdc-dte-cwc@nic.in** in either by registered post/speed post/courier or by hand, failing which the bids will be declared non-responsive and will not be opened.
10. A pre-bid meeting will be held on **21.01.2020; 11:30 Hrs** in the **Conference Room, Ground Floor, River Data Compilation-2 Dte, CWC, West Block-II, R.K.Puram, New Delhi- 110066**, to clarify the issues and to answer questions on any matter that may be raised at that stage.

11. Other details can be seen in the bidding document. The Purchaser shall not be held liable for any delays due to system failure beyond its control. Even though the system will attempt to notify the bidders of any bid updates, the Purchaser shall not be liable for any information not received by the bidder. It is the bidders' responsibility to verify the website for the latest information related to this bid.

**Director, River Data Compilation-I Dte,
Central Water Commission,
Wing 5, Ground Floor, West Block-II,
R.K.Puram, New Delhi-110066
Tel & Fax: 011-26181267
E-mail: rdcdte-cwc@nic.in**

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PART 1 – BIDDING PROCEDURES

SECTION I - INSTRUCTIONS TO BIDDERS [ITB]

Section I. Instructions to Bidders

A. General

1. **Scope of Bid**
 - 1.1 The Purchaser **indicated in the Bidding Data Sheet (BDS)**, issues these Bidding Documents for the supply of Goods and Related Services incidental thereto as specified in Section VII, Schedule of Requirements. The name, identification and number of lots (contracts) of this National Competitive Bidding (NCB) procurement are **specified in the BDS**.
 - 1.2 Throughout these Bidding Documents:
 - (a) the term “in writing” means communicated in written form (e.g. by mail, e-mail, fax, telex, including if **specified in the BDS**, distributed or received through the electronic-procurement system used by the Employer) 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 (hereinafter called “Borrower”) **specified in the BDS** has applied for or received financing (hereinafter called “funds”) from the International Bank for Reconstruction and Development or the International Development Association (hereinafter called “the Bank”) in an amount **specified in BDS** toward the project **named in the BDS**. The Borrower intends to apply a portion of the funds to eligible payments under the contract for which these Bidding Documents are issued.
 - 2.2 Payment by the Bank will be made only at the request of the Borrower and upon approval by the Bank in accordance with the terms and conditions of the Loan (or other financing) Agreement. The Loan (or other financing) Agreement prohibits a withdrawal from the loan or other financing) 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 decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the Loan (or other financing) Agreement or have any claim to the funds.
3. **Corrupt & Fraudulent Practices**
 - 3.1 The Bank requires compliance with its policy in regard to corrupt and fraudulent practices as set forth in Section VI.

- 3.2 In further pursuance of this policy, Bidders shall permit and shall cause its agents (whether declared or not), sub-contractors, sub-consultants, service providers or suppliers and to permit the Bank to inspect all accounts, records and other documents relating to the submission of the application, bid submission (in case prequalified), and contract performance (in the case of award), and to have them audited by auditors appointed by the Bank.

4. Eligible Bidders

- 4.1 A Bidder may be a firm that is a private entity, or a government owned entity subject to ITB 4.5.
- 4.2 A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this bidding process, if the Bidder:
- a. directly or indirectly controls, is controlled by or is under common control with another Bidder; or
 - b. receives or has received any direct or indirect subsidy from another Bidder; or
 - c. has the same legal representative as another Bidder; or
 - d. has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the bid of another Bidder, or influence the decisions of the Purchaser regarding this bidding process; or
 - e. participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which such Bidder is involved. However, this does not limit the inclusion of the same subcontractor in more than one bid; or
 - f. any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the goods/equipment that are the subject of the bid; or
 - g. any of its affiliates has been hired (or is proposed to be hired) by the Purchaser or Borrower for the Contract implementation; or
 - h. would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the project specified in the BDS ITB 2.1 that it provided or were provided by any of its affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or
 - i. has a close business or family relationship with a professional staff of the Borrower (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the bidding documents or specifications of the contract, and/or the bid evaluation process of such contract; or (ii) would be involved in the implementation or supervision of such contract unless the conflict stemming from such

relationship has been resolved in a manner acceptable to the Bank throughout the procurement process and execution of the contract.

- 4.3 A Bidder may have the nationality of any country, subject to the restrictions pursuant to ITB 4.7. A Bidder shall be deemed to have the nationality of a country if the Bidder is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed sub-contractors or sub-consultants for any part of the Contract including related Services.
- 4.4 A Bidder that has been sanctioned by the Bank in accordance with the above ITB 3.1, including in accordance with the Bank's Guidelines on Preventing and Combating Corruption in Projects Financed by IBRD Loans and IDA Credits and Grants ("Anti-Corruption Guidelines"), shall be ineligible to be prequalified for, bid for, or be awarded a Bank-financed contract or benefit from a Bank-financed contract, financially or otherwise, during such period of time as the Bank shall have determined. The list of debarred firms and individuals is available at the electronic address **specified in the BDS.**
- 4.5 Bidders that are Government-owned enterprises or institutions in the Purchaser's Country may participate only if they can establish that they (i) are legally and financially autonomous (ii) operate under commercial law, and (iii) are not dependent agencies of the Purchaser. To be eligible, a government-owned enterprise or institution shall establish to the Bank's satisfaction, through all relevant documents, including its Charter and other information the Bank may request, that it: (i) is a legal entity separate from the government (ii) does not currently receive substantial subsidies or budget support; (iii) operates like any commercial enterprise, and, inter alia, is not obliged to pass on its surplus to the government, can acquire rights and liabilities, borrow funds and be liable for repayment of its debts, and can be declared bankrupt; and (iv) is not bidding for a contract to be awarded by the department or agency of the government which under their applicable laws or regulations is the reporting or supervisory authority of the enterprise or has the ability to exercise influence or control over the enterprise or institution.
- 4.6 A Bidder shall not be under suspension from bidding by the Purchaser as the result of the operation of a Bid-Securing Declaration.

- 4.7 Firms and individuals may be ineligible if so indicated in Section V and (a) as a matter of law or official regulations, 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 goods or the contracting of works or services required; or (b) 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 or contracting of works or services from that country, or any payments to any country, person, or entity in that country.
- 4.8 A bidder shall provide such evidence of eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.
- 4.9 It is necessary for the bidders to quote their rates for all the items mentioned in the price schedule forms.
- 5. Eligible Goods and Related Services**
- 5.1 All the Goods and Related Services to be supplied under the Contract and financed by the Bank may have their origin in any country in accordance with Section V, Eligible Countries.
- 5.2 For purposes of this Clause, the term "goods" includes commodities, raw material, machinery, equipment, and industrial plants; and "related services" includes services such as insurance, installation, training, and initial maintenance.
- The term "origin" means the country where the goods have been mined, grown, cultivated, produced, manufactured or processed; or, through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

B. Contents of Bidding Document

- 6. Sections of Bidding Documents**
- 6.1 The Bidding Documents consist of Parts 1, 2, and 3, which include all the Sections indicated below, and should be read in conjunction with any Addendum issued in accordance with ITB Clause 8.

PART 1 Bidding Procedures

- Section I. Instructions to Bidders (ITB)
- Section II. Bidding Data Sheet (BDS)
- Section III. Evaluation and Qualification Criteria
- Section IV. Bidding Forms
- Section V. Eligible Countries

- Section VI Bank Policy-Corrupt and Fraudulent Practices

PART 2 Supply Requirements

- Section VII. Schedule of Requirements

PART 3 Contract

- Section VIII. General Conditions of Contract (GCC)
- Section IX. Special Conditions of Contract (SCC)
- Section X. Contract Forms

6.2 The Invitation for Bids issued by the Purchaser is not part of the Bidding Document.

6.3 Unless obtained directly from the Purchaser, the Purchaser is not responsible for the completeness of the document, responses to requests for clarification, minutes of pre-bid meeting (if any), or Addenda to the Bidding Document in accordance with ITB 8. In case of any contradiction, documents obtained directly from the Purchaser shall prevail.

6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents and to furnish with its Bid all information or documentation as is required by the Bidding Documents.

7. Clarification of Bidding Documents

7.1 The electronic bidding system **specified in the BDS** provides for online clarifications. A prospective Bidder requiring any clarification on the Bidding Documents may notify the Purchaser online. Clarifications requested through any other mode shall not be considered by the Purchaser. The Purchaser will respond to any request for clarification, provided that such request is received no later than fifteen (15) days prior to the deadline for submission of bids. Description of clarification sought and the response of the Purchaser shall be uploaded for information of all Bidders without identifying the source of request for clarification. Should the Purchaser deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under ITB Clause 8 and ITB Sub-Clause 22.2. It is the bidder's responsibility to check on the e-procurement system, for any addendum/ amendment/ corrigendum to the bidding document.

8. Amendment of Bidding Documents

8.1 At any time prior to the deadline for submission of bids, the Purchaser may amend the Bidding Documents by issuing addendum. The addendum will appear on the e-procurement system under "Latest Corrigendum" and email notification is also

automatically sent to those bidders who have started working on the tender, or as **otherwise specified in BDS**.

- 8.2 Any addendum thus issued shall be part of the Bidding Documents and shall be deemed to have been communicated to all the bidders.
- 8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Purchaser may, at its discretion, extend the deadline for the submission of bids, pursuant to ITB Sub-Clause 22.2

C. Preparation of Bids

- 9. Cost of Bidding**
 - 9.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- 10. Language of Bid**
 - 10.1 The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in English language. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages into English language, in which case, for purposes of interpretation of the Bid, such translation shall govern.
- 11. Documents Comprising the Bid**
 - 11.1 The Bid shall comprise two Parts, namely the Technical Part and the Financial Part. These two Parts shall be submitted simultaneously.
 - 11.2 **The Technical Part** shall contain the following:
 - (a) Letter of Bid – Technical Part, in accordance with ITB Clause 12;
 - (b) Bid Security, in accordance with ITB Clause 19.1, if required;
 - (c) Alternative bids– Technical Part, if permissible, in accordance with ITB 13, the Technical Part of any Alternative Bid;
 - (d) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB Clause 20.2;
 - (e) documentary evidence in accordance with ITB Clause 17 establishing the Bidder’s qualifications to perform the contract if its bid is accepted;
 - (f) documentary evidence in accordance with ITB 17 establishing the Bidder’s eligibility to bid;

- (g) documentary evidence in accordance with ITB Clause 16, that the Goods and Related Services to be supplied by the Bidder are of eligible origin;
- (h) documentary evidence in accordance with ITB Clauses 16, that the Goods and Related Services conform to the Bidding Documents;
- (i) Manufacturer's authorization form; and
- (j) any other document **required in the BDS.**

11.3 The **Financial Part** shall contain the following:

- (a) Letter of Bid – Financial Part: prepared in accordance with ITB 12 and ITB 14;
- (b) Price Schedules: completed prepared in accordance with ITB 12 and ITB 14;
- (c) Alternative Bid - Financial Part; if permissible in accordance with ITB 13, the Financial Part of any Alternative Bid; and
- (d) any other document **required in the BDS.**

11.4 The Technical Part shall not include any financial information related to the Bid price. Where material financial information related to the Bid price is contained in the Technical Part, the Bid shall be declared non-responsive.

11.5 The Bidder shall furnish in the Letter of Bid, information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid.

- 12. Process of Bid Submission**
- 12.1 The Letter of Bid – Technical Part, Letter of Bid – Financial Part, and Price Schedules shall be prepared using the relevant forms furnished in Section IV, Bidding Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITB 20.2. All blank spaces shall be filled in with the information requested.
- 12.2 Entire Bid including the Letter of Bid and filled-up Price Schedules shall be submitted online on e-procurement system specified in ITB 7.1. Details and process of online submission of the tender and relevant documents are given in the website mentioned above. Scanned copies of documents listed in clauses 11 and 12.3 should also be uploaded on this website.
- 12.3 **Submission of Original Documents:** The bidders are required to separately submit (i) original demand drafts towards the cost of bid document and (as per RFB); (ii) original bid security in approved form; and (iii) original affidavit regarding correctness of information furnished with bid document, with the office **specified in the BDS**, before the opening of the technical part of the Bid, either by registered/speed post/courier or by hand, failing which the bids will be declared non-responsive and will not be opened. Hard copy of rest of the bid is not to be submitted.
- 13. Alternative Bids**
- 13.1 Unless otherwise **specified in the BDS**, alternative bids shall not be considered.
- 14. Bid Prices and Discounts**
- 14.1 The prices and discounts quoted by the Bidder in the Letter of Bid – Financial Part and in the Price Schedules shall conform to the requirements specified below.
- 14.2 All lots (contracts) and items must be listed and priced separately in the Price Schedules.
- 14.3 The price to be quoted in the Letter of Bid – Financial Part, in accordance with ITB 12.1, shall be the total price of the bid, excluding any discounts offered.
- 14.4 The Bidder shall quote any discounts and indicate the methodology for their application in the Letter of Bid – Financial Part in accordance with ITB 12.1.
- 14.5 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account, **unless otherwise specified in the BDS**. A bid submitted with an adjustable price quotation shall be treated as nonresponsive and shall be rejected, pursuant to ITB 31. However, if in accordance with the BDS, prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract, a bid submitted with a fixed price quotation shall not be rejected, but the price adjustment shall be treated as zero.

- 14.6 If so specified in ITB 1.1, bids are being invited for individual lots (contracts) or for any combination of lots (packages). Unless otherwise **specified in the BDS**, prices quoted shall correspond to 100 % of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Bidders wishing to offer discounts for the award of more than one Contract shall specify in their bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITB 14.4 provided the bids for all lots (contracts) are submitted and opened at the same time.
- 14.7 The terms EXW and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by The International Chamber of Commerce, **as specified in the BDS**.
- 14.8 Prices shall be quoted as specified in the Price Schedule included in Section IV, Bidding Forms. The dis-aggregation of price components is required solely for the purpose of facilitating the comparison of bids by the Purchaser. This shall not in any way limit the Purchaser's right to contract on any of the terms offered. In quoting prices, the Bidder shall be free to use transportation through carriers registered in any eligible country, in accordance with Section V Eligible Countries. Similarly, the Bidder may obtain insurance services from any eligible country in accordance with Section V Eligible Countries. Prices shall be entered in the following manner:
- (a) **For Goods:**
 - (i) the price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable), including GST as applicable payable on the finished Goods;
 - (ii) any other taxes if payable in India on the Goods, if the contract is awarded to the Bidder; and
 - (iii) the price for inland transportation, insurance, and other local services required to convey the Goods to their final destination (Project Site) **specified in the BDS**.
 - (b) for the Related Services, other than inland transportation and other services required to convey the Goods to their final destination, whenever such Related Services are specified in the Schedule of Requirements:
 - (i) the price of each item comprising the Related Services (inclusive of any applicable taxes).

14.9 Deemed **Export Benefits**

Bidders may like to ascertain availability of tax/duty exemption benefits, if any, available for contracts financed under World Bank Credits/ Loans. 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 Purchaser will not compensate the bidder.

Where the bidder has quoted taking into account such benefits, it must give all information required for issue of necessary Certificates in terms of the Government of India's relevant Notification along with its bid as per form stipulated in Section IV Bidding Forms. Where the Purchaser issues such Certificates, such taxes and duties will not be reimbursed separately.

If the Bidder has considered the Deemed Export Benefits in its bid, the Bidder shall confirm and certify that the Purchaser will not be required to undertake any responsibilities of the deemed export scheme or the benefits available during contract execution except issuing the required certificates. Bids which do not conform to this provision or any condition by the Bidder which makes the bid subject to availability of deemed export benefits or compensation on withdrawal of or any variations in the deemed export benefits scheme will make the bid non responsive and hence liable to rejection.

15. Currencies of Bid& Payment

15.1 The Bidder shall quote the Price in Indian Rupees only.

16. Documents Establishing the Eligibility and conformity of the Goods and Related Services

16.1 To establish the eligibility of the Goods and Related Services in accordance with ITB Clause 5, Bidders shall complete the country of origin declarations in the Price Schedule Forms, included in Section IV, Bidding Forms.

16.2 To establish the conformity of the Goods and Related Services to the Bidding Documents, the Bidder shall furnish as part of its Bid the documentary evidence that the Goods conform to the technical specifications and standards specified in Section VII, Schedule of Requirements.

16.3 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification, and if applicable, a statement of deviations and exceptions to the provisions of the Section VII Schedule of Requirements.

- 16.4 The Bidder shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period **specified in the BDS** following commencement of the use of the goods by the Purchaser.
- 16.5 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by the Purchaser in the Schedule of Requirements, are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to the Purchaser's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in the Section VII Schedule of Requirements.
- 17. Documents Establishing the Eligibility & Qualifications of the Bidder**
- 17.1 To establish Bidder's eligibility in accordance with ITB 4, Bidders shall complete the Letter of Bid – Technical Part, included in Section IV, Bidding Forms.
- 17.2 The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Purchaser's satisfaction:
- (a) that the Bidder meets each of the qualification criterion Criteria specified in Section III, Evaluation and Qualification;
 - (b) (i) that, if **required in the BDS**, a Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section IV, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in the Purchaser's Country;
 - (ii) Supplies for any particular item in each schedule of the bid should be from one manufacturer only. Bids from agents offering supplies from different manufacturers for the same item of the schedule in the bid will be treated as non-responsive.
 - (iii) that, if **required in the BDS**, the Bidder is or will be (if awarded the contract) represented by an Agent in the country equipped and able to carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications;
 - (c) Bids from Joint Ventures are not acceptable.

- 18 Period of Validity of Bids**
- 18.1 Bids shall remain valid for the period **specified in the BDS** after the bid submission deadline date prescribed by the Purchaser in accordance with ITB 22.1. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.
- 18.2 In exceptional circumstances, prior to the expiration of the bid validity period, the Purchaser may request bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB Clause 19, it shall also be extended for a corresponding period. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its bid, except as provided in ITB Sub-Clause 18.3.
- 18.3 If the award is delayed by a period exceeding ninety (90) days beyond the expiry of the initial bid validity, the Contract price shall be determined as follows:
- (a) In the case of fixed price contracts, the Contract price shall be the bid price adjusted by the factor **specified in the BDS** for each week or part of the week that has elapsed from the expiration of the initial bid validity to the date of notification of award to the successful bidder.
 - (b) In the case of adjustable price contracts, no adjustment shall be made.
 - (c) In any case, bid evaluation shall be based on the bid Price without taking into consideration the applicable correction from the one indicated above.
- 19 Bid Security**
- 19.1 The Bidder shall furnish as part of the Technical Part of its bid, a Bid Security, if required, as **specified in the BDS**.
- 19.2 Not used.
- 19.3 The Bid Security shall be in the amount **specified in the BDS** and denominated in Indian Rupees or a freely convertible currency, and shall:
- (a) at the bidder's option, be in the form of either a certified check, demand draft, letter of credit, or a bank guarantee from a Nationalized /Scheduled Bank in India, or another security specified **in the BDS**;
 - (b) be substantially in accordance with one of the forms of Bid Security included in Section IV, Bidding Forms, or other form approved by the Purchaser prior to bid submission;

- (c) be payable promptly upon written demand by the Purchaser in case the conditions listed in ITB Clause 19.7 are invoked;
 - (d) be submitted in its original form; copies will not be accepted;
 - (e) remain valid for a period of 90days beyond the original validity period of the bids, or beyond any period of extension of bid validity, if so requested under ITB Clause 18.2.
- 19.4 If a Bid Security is required in accordance with ITB Sub-Clause 19.1, any bid not accompanied by a substantially responsive Bid Security shall be rejected by the Purchaser as non-responsive.
- 19.5 The Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's signing the contract and furnishing the Performance Security pursuant to ITB Clause 44.
- 19.6 The Bid Security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the contract and furnished the required performance security.
- 19.7 The Bid Security may be forfeited:
- (a) if a Bidder
 - (i) withdraws its bid during the period of bid validity specified by the Bidder in the Letter of Bid (Technical Part and/or Financial Part), except as provided in ITB Sub-Clause 18.2;
or
 - (ii) does not accept the correction of errors in pursuant to ITB35,
or
 - (b) if the successful Bidder fails to:
 - (i) sign the Contract in accordance with ITB Clause 43;
or
 - (ii) furnish a Performance Security in accordance with ITB Clause 44.
- 19.8 Not used.
- 19.9 If a bid security is **not required in the BDS**, and

- (a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Letter of Bid Form, except as provided in ITB 18.2, or does not accept the correction of errors pursuant to ITB 35; or
- (b) if the successful Bidder fails to sign the Contract in accordance with ITB 43; or furnish a performance security in accordance with ITB 44;

the Borrower may, **if provided for in the BDS**, declare the Bidder ineligible to be awarded a contract by the Purchaser for a period of time **as stated in the BDS**.

20 Format and Signing of Bid

- 20.1 The Bidder shall prepare the Bid as per details given in ITB 21.
- 20.2 The bid shall be signed by a person duly authorized to sign on behalf of the Bidder. The authorization shall consist of a written confirmation **as specified in the BDS** and shall be uploaded along with the bid.
- 20.3 Not used.
- 20.4 Corrections if any in the bid can be carried out by editing the information before electronic submission on e-procurement portal.

D. Online Submission of Bids

21 Preparation of Bids

- 21.1 Bids, both Technical and Financial Parts, shall be submitted online on the e-procurement system specified in BDS 7.1. Detailed guidelines for viewing bids and submission of online bids are given on the website. The Invitation for Bids under this Project is published on this website. Any citizen or prospective bidder can logon to this website and view the Invitation for Bids and can view the details of goods for which bids are invited. A prospective bidder can submit its bid online; however, the bidder is required to have enrolment/registration in the website, and should have valid Digital Signature Certificate (DSC) in the form of smart card/e-token obtained from any authorised certifying agency of Government of India (for class of DSC **specified in BDS**). The bidder should register in the website using the relevant option available. Then the Digital Signature registration has to be done with the e-token, after logging into the website. The bidder can then login the website through the secured login by entering the password of the e-token & the user id/ password chosen during registration. After getting the bid schedules, the Bidder should go through them carefully and submit the specified documents, along with the bid, otherwise the bid will be rejected.
- 21.2 The completed bid comprising of documents indicated in ITB 12, should be uploaded on the e-procurement portal along with scanned copies of requisite certificates as are mentioned in

different sections in the bidding document and scanned copy of the bid security.

- 21.3 All the documents are required to be signed digitally by the bidder. After electronic on line bid submission, the system generates a unique bid identification number which is time stamped as per server time. This shall be treated as acknowledgement of bid submission.
- 21.4 Physical, Email, Telex, Cable or Facsimile bids will be rejected as non-responsive.
- 22 Deadline for Submission of Bids**
- 22.1 Bids must be uploaded online no later than the date and time **specified in the BDS.**
- 22.2 The Purchaser may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents in accordance with ITB Clause 8, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.
- 23 Late Bids**
- 23.1 The electronic bidding system would not allow any late submission of bids after due date & time as per server time.
- 24 Withdrawal, Substitution, and Modification of Bids**
- 24.1 Bidders may modify their bids by using appropriate option for bid modification on the e-procurement portal, before the deadline for submission of bids. For this the bidder need not make any additional payment towards the cost of bid document. For bid modification and consequential re-submission, the bidder is not required to withdraw his bid submitted earlier. The last modified bid submitted by the bidder within the bid submission time shall be considered as the bid. For this purpose, modification/withdrawal by other means will not be accepted. In online system of bid submission, the modification and consequential re-submission of bids is allowed any number of times. A bidder may withdraw his bid by using appropriate option for bid withdrawal, before the deadline for submission of bids, however, if the bid is withdrawn, re-submission of the bid is not allowed (or allowed **if specified in BDS**).
- 24.2 Bids requested to be withdrawn in accordance with ITB Sub-Clause 24.1 shall not be opened.
- 24.3 No bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Letter of Bid (Technical Part and/or Financial Part) or any extension thereof.

E. Public Opening of Technical Parts of Bids

- 25 Public Opening of Technical Parts of Bids** 25.1. The Purchaser shall publicly open Technical Parts of all bids received by the deadline, at the date, time and place **specified in the BDS**, in the presence of Bidder's designated representatives and anyone who chooses to attend, and this could also be viewed by the bidders online. The Financial Parts of the bids shall remain unopened in the e-procurement system, until the subsequent public opening, following the evaluation of the Technical Parts of the Bids. In all cases, original documents submitted as specified in ITB 12.3 shall be first scrutinized, and Bids that do not comply with the provisions of ITB 12.3 will be declared non-responsive and will not be opened. Thereafter, bidder's names, and such other details as the Purchaser may consider appropriate will be notified online as Technical Part bid opening summary.

In the event of the specified date of bid opening being declared a holiday for the Purchaser, the bids will be opened at the appointed time and location on the next working day.

- 25.2 The electronic summary of the bid opening will be generated and uploaded online. The Purchaser will also prepare minutes of the Bid opening, including the information disclosed and upload the same for viewing online. Only Technical Parts of Bids, alternative bids - Technical Parts if permitted in ITB 13 that are opened at Bid opening shall be considered further for evaluation.

E. Evaluation of Bids – General Provisions

- 26 Confidentiality** 26.1 Information relating to the examination, evaluation, comparison, and post-qualification of bids, and recommendation of contract award, shall not be disclosed to bidders or any other persons not officially concerned with such process until information on Contract Award is communicated to all Bidders in accordance with ITB 42.
- 26.2 Any effort by a Bidder to influence the Purchaser in the examination, evaluation, comparison, and post-qualification of the bids or contract award decisions may result in the rejection of its Bid.
- 26.3 Notwithstanding ITB Sub-Clause 26.2, from the time of bid opening to the time of Contract Award, if any Bidder wishes to contact the Purchaser on any matter related to the bidding process, it should do so in writing.
- 27 Clarification of Bids** 27.1 To assist in the examination, evaluation, comparison of the bids and post-qualification of the Bidders, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid, that is not in response to a request by the Purchaser shall not be considered.

The Purchaser's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the Evaluation of the bids, in accordance with ITB Clause 35.

27.2 If a Bidder does not provide clarifications of its bid by the date and time set in the Purchaser's request for clarification, its bid may be rejected.

28 Deviations, Reservations, Omissions

28.1 During the evaluation of bids, the following definitions apply:

- (a) "Deviation" is a departure from the requirements specified in the Bidding Documents;
- (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Documents; and
- (c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Documents.

29 Nonconformities, Errors and Omissions

29.1 Provided that a Bid is substantially responsive, the Purchaser may waive any nonconformities or omissions in the Bid which do not constitute a material deviation, reservation or omission.

29.2 Provided that a Bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Bid related to documentation requirements. Such omission shall not be related to any aspect of the price or substance of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

29.3 Provided that a Bid is substantially responsive, the Purchaser shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component in the manner specified **in the BDS.**

G. Evaluation of Technical Parts of Bids

30 Evaluation of Technical Parts

30.1 In evaluating the Technical Parts of each Bid, the Purchaser shall use the criteria and methodologies listed in ITB 31, ITB 32, and Section III, Evaluation and Qualification Criteria. No other evaluation criteria or methodologies shall be permitted.

- 31 Determination of Responsiveness**
- 31.1 The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself as defined in ITB 11.
- 31.2 A substantially responsive Bid is one that meets the requirements of the Bidding Documents without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:
- (a) If accepted, would
 - (i) affect in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Contract; or
 - (ii) limit in any substantial way, inconsistent with the Bidding Documents, the Purchaser's rights or the Bidder's obligations under the Contract; or
 - (b) if rectified would unfairly affect the competitive position of other bidders presenting substantially responsive bids.
- 31.2.1 Bids from Agents, without proper authorization from the manufacturer as per Section IV, shall be treated as non-responsive.
- 31.3.1 The Purchaser shall examine the bids to confirm that all documents and technical documentation requested in ITB Clause 11 have been provided, and to determine the completeness of each document submitted.
- 31.3.2 The Purchaser shall examine the bid to confirm that the Bidder has accepted all terms and conditions specified in GCC and the SCC without material deviations or reservations. Deviations from or objections or reservations to critical provisions such as those concerning Performance Security (GCC Clause 18), Warranty (GCC Clause 28), Force Majeure (Clause 32), Limitation of liability (GCC Clause 30), Governing law (GCC Clause 9) and Taxes & Duties (GCC Clause 17) will be deemed to be a material deviation. The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- 31.4 If a bid is not substantially responsive to the Bidding Documents, it shall be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.
- 32 Qualification of the Bidders**
- 32.1 The Purchaser shall determine, to its satisfaction, whether all eligible Bidders, whose Bids have been determined to be substantially responsive to the bidding document, meet the

Qualification Criteria specified in Section III, Evaluation and Qualification Criteria.

- 32.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 17. The determination shall not take into consideration the qualifications of other firms such as the Bidder's subsidiaries, parent entities, affiliates, subcontractors (other than specialized subcontractors if permitted in the bidding document), or any other firm(s) different from the Bidder.
- 32.3 If a Bidder does not meet the qualifying criteria specified in Section III, Evaluation and Qualification Criteria, its Bid shall be rejected by the Purchaser and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.
- 32.4 Only Bids that are both substantially responsive to the bidding document, and meet all Qualification Criteria shall have the Financial Parts of their Bids opened at the second public opening

H. Public Opening of Financial Parts of Bids

33 Public Opening of Financial Parts

- 33.1 Following the completion of the evaluation of the Technical Parts of the Bids, and the Bank has issued its no objection (if applicable), the Purchaser shall notify in writing those Bidders who have failed to meet the Qualification Criteria and/or whose Bids were considered non-responsive to the requirements in the bidding document, advising them of the following information:
 - (a) their Technical Part of Bid failed to meet the requirements of the bidding document;
 - (b) their Financial Part of the Bid shall not be opened; and
 - (c) notify them of the date and time for public opening of the Financial Parts of the Bids. Financial Parts of the bids shall not be opened earlier than seven (7) days from the communication of technical evaluation results to the bidders.
- 33.2 The Purchaser shall, simultaneously, notify in writing those Bidders whose Technical Parts have been evaluated as substantially responsive to the bidding document and met the Qualification Criteria, advising them of the following information:
 - (a) their Bid has been evaluated as substantially responsive to the bidding document and met the Qualification Criteria;

- (b) their Financial Part of Bid will be opened at the public opening of Financial Parts;
 - (c) notify them of the date and time of the second public opening of the Financial Parts of the Bids, as **specified in the BDS**.
- 33.3 The opening date should allow Bidders sufficient time to make arrangements for attending the opening. The Financial Part of the Bid shall be opened publicly in the presence of Bidders' designated representatives and anyone who chooses to attend, and this could also be viewed by the bidders online. The bidder's names, the Bid prices, the total amount of each bid, including any discounts and Alternative Bid – Financial Part, and such other details as the Purchaser may consider appropriate will be notified online by the Purchaser at the time of bid opening.
- In the event of the specified date of bid opening being declared a holiday for the Purchaser, the bids will be opened at the appointed time and location on the next working day.
- 33.4 The electronic summary of the bid opening will be generated and uploaded online. The Purchaser will also prepare minutes of the Bid opening, including the information disclosed and upload the same for viewing online. Only Financial Part of Bids, Financial Parts of Alternative Bids and discounts that are opened and read out at Bid opening shall be considered further for evaluation.

I. Evaluation of Financial Parts of Bids

34 Evaluation of Financial Parts

- 34.1 To evaluate the Financial Part of each Bid, the Purchaser shall consider the following:
- (a) evaluation will be done for Items or Lots (contracts), as specified **in the BDS**; and the Bid Price as quoted in accordance with ITB 14;
 - (b) Not used;
 - (c) price adjustment due to discounts offered in accordance with ITB 14.4;
 - (d) Not used;
 - (e) price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITB 29.3; and
 - (f) the additional evaluation factors specified in the BDS as per ITB 34.5 from amongst those set out in Section III, Evaluation and Qualification Criteria.

	34.2	The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Bid evaluation.
	34.3	If this bidding document allows Bidders to quote separate prices for different lots (contracts), the methodology to determine the lowest evaluated cost of the lot (contract) combinations, including any discounts offered in the Letter of Bid - Financial Part, is specified in Section III, Evaluation and Qualification Criteria.
	34.4	The Purchaser's evaluation of a Bid shall include (i) price quoted EXW including GST as applicable on the finished goods; (ii) other taxes, if any, payable on finished goods; (iii) price for inland transportation, insurance, and other local services required to convey the Goods to their Final Destination; and (iv) price for Related Services, if any.
	34.5	The Purchaser's evaluation of a Bid may require the consideration of other factors, in addition to the Bid price quoted in accordance with ITB 14. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of Bids, unless otherwise specified in the BDS from amongst those set out in Section III, Evaluation and Qualification Criteria. The criteria and methodologies to be used shall be as specified in ITB 34.1 (f).
35 Correction of Arithmetical Errors	35.1	The e-procurement system automatically calculates the total amount from unit rates and quantities and the system also automatically populates the amount in words from the amount in figures and therefore there is no scope of discrepancy and need for arithmetic correction.
36 Conversion to Single Currency	36.1	Not applicable.
37 Margin of Domestic Preference	37.1	Not applicable.
38 Comparison of Financial Parts	38.1	The Purchaser shall compare the evaluated prices of all substantially responsive bids to determine the lowest-evaluated bid, in accordance with ITB Clause 34.
39 Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids	39.1	The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to Bidders. In case of annulment, all documents submitted and specifically, bid securities, shall be promptly returned to the Bidders.

J. Award of Contract

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| 40 Award Criteria | 40.1 Subject to ITB 39.1, the Purchaser shall award the Contract to the Bidder whose bid has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Documents, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily. |
| 41 Purchaser's Right to Vary Quantities at Time of Award | 41.1 At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in Section VII, Schedule of Requirements, provided this does not exceed the percentages specified in the BDS , and without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents. |
| 42 Notification of Award | 42.1 Prior to the expiration of the period of bid validity, the Purchaser shall notify the successful Bidder, in writing, that its Bid has been accepted. The notification letter (hereinafter called "Letter of Acceptance") shall specify the sum that the purchaser will pay in consideration of the supply of Goods (hereinafter called "the Contract Price"). |
| Publication of Award | 42.2 At the same time the Purchaser shall publish in GoI Central Public Procurement Portal https://etender.up.nic.in or on the Purchaser's website with free access if available, or in the official gazette, the results identifying the bid and lot numbers and the following information: (i) name of each Bidder who submitted a Bid; (ii) 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 successful Bidder, and the price it offered, as well as the duration and summary scope of the contract awarded. |
| Recourse to Unsuccessful Bidders | 42.3 The Purchaser shall promptly respond in writing to any unsuccessful Bidder who, after Publication of contract award, requests in writing the grounds on which its bid was not selected.
42.4 Until a formal Contract is prepared and executed, the notification of award shall constitute a binding Contract.
42.5 Upon the successful Bidder's furnishing of the performance security and signing the Contract Form pursuant to ITB Clause 43, the Purchaser will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 19.5 |
| 43 Signing of Contract | 43.1 Promptly after notification, the Purchaser shall send the successful Bidder the Contract Agreement.

43.2 Within twenty-one (21) days of receipt of the Contract Agreement, the successful Bidder shall sign, date, and return it to the Purchaser. |

44 Performance Security

44.1 Within twenty-one (21) days of the receipt of notification of award from the Purchaser, the successful Bidder, if required, shall furnish the Performance Security in accordance with the GCC, using for that purpose the Performance Security Form included in Section X Contract forms, or another Form acceptable to the Purchaser. Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event the Purchaser may award the Contract to the next lowest evaluated Bidder, whose bid is substantially responsive and is determined by the Purchaser to be qualified to perform the Contract satisfactorily.

SECTION II - BIDDING DATA SHEET

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

ITB Clause Reference	A. General
ITB 1.1	The Purchaser is: Director, River Data Compilation-I Dte, Central Water Commission, Wing 5, Ground Floor, West Block-II, R. K. Puram, New Delhi-110066, Tel & Fax: 011-26181267, E-mail: rdc-dte-cwc@nic.in
ITB 1.1	<p>The name of the NCB is: SUPPLY OF WATER QUALITY TESTING GOODS/EQUIPMENT</p> <p>Identification number of the NCB is: IFB No.: NHP/2020-RDC-1/03</p> <p>The number and identification of the lots (contracts) comprising this NCB are: One</p>
ITB 1.2(a)	The Purchaser shall use the electronic-procurement system specified in BDS 7.1 to manage this Bidding process.
ITB 2.1	<p>The Borrower is Government of India</p> <p>Loan or Financing Agreement Amount: US\$ 175 Million Loan no: 8725-IN</p>
ITB 2.1	The name of the Project is: National Hydrology Project
ITB 4.4	A list of firms debarred from participating in World Bank projects is available at http://www.worldbank.org/debarr

	B. Contents of Bidding Documents
ITB 7.1	<p>Electronic –Procurement System</p> <p>The Purchaser shall use the following electronic-procurement system to manage this Bidding process: https://etender.up.nic.in</p>
ITB 7.1a	<p><u>Add a sub-clause as 7.1 a:</u></p> <p>The pre-bid meeting shall be held to clarify the issues regarding bidding document. The details are as follows:</p> <p>Date: 21.01.2020</p> <p>Time: 11:30 Hrs</p> <p>Place : Conference Room, Ground Floor, River Data Compilation-2 Dte, CWC, West Block-II, R.K.Puram, New Delhi- 110066</p>
ITB 8.1	<p>The addendum will appear on the e-procurement system and notification is also automatically sent.</p>
	C. Preparation of Bids
ITB 11.2(j)	<p>The Bidder shall submit the following additional documents in its bid – technical part: <i>[insert list of documents, if any]</i></p> <ol style="list-style-type: none"> 1. Certification of incorporation of the bidder and manufacturer 2. The bidder shall clearly confirm that all facilities exist with him (or manufacturer, as applicable) in his factory for inspection and testing and these can be accessed by the Purchaser or his representative for inspection. 3. As e- procurement system is being used, there is no hard copy submission of bid. Only original copy of the power of attorney and affidavits for the correctness of the information furnished with the office, before the opening of the Technical Part of the Bid, either by registered/speed post/courier or by hand, failing which the bids will be declared non-responsive and will not be opened. Hard copy of rest of the bid is not to be submitted. 4. Technical schedules of goods as required by technical specifications. 5. Descriptive Documents, drawings, notes and references of operating and assembly of mechanical parts 6. A detailed description of the Goods essential technical and performance characteristics:

	<p>7. A clause-by-clause commentary on the Purchaser's technical specifications demonstrating substantial responsiveness of the Goods and Services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications.</p> <p>8. For purposes of the commentary to be furnished pursuant to Paragraph 6 above, the Bidder shall note that standards for workmanship, material and goods, and references to brand names or catalogue numbers designated by the Purchaser in its Technical Specifications are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names and/or catalogue numbers in its bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications</p> <p>9. The documentary evidence of the goods and services eligibility shall consist of a statement in the Price Schedule on the country of origin of the goods and services offered which shall be confirmed by a certificate of origin at the time of shipment.</p> <p>10. Manufacturer bidder will submit OEM certificate and non-manufacturer bidders will submit the manufacturer's authorization Form as per Proforma in Section IV.</p> <p>11. The following details shall also be provided by Indian Bidders:</p> <ol style="list-style-type: none"> Signed and scanned copy of PAN Signed and scanned copy of previous three Financial Years Income-tax filed copy/GST No./TIN No./Affidavit of partnership firm/ Pvt. Ltd. or public Ltd. company registered certificate. Signed and scanned copy of audited Balance sheet of last three years. Any other document in support of the Bid The bidders from outside India shall provide the corresponding details of Income Tax registration, details regarding Registration under GST or sale of goods (as may be applicable) etc The bidder shall disclose instance of previous past performance that may have resulted into adverse actions taken against the bidder during the last five years.
ITB 11.3(a)	Note for Bidders: Bidders have to submit filled up format of 'Letter of Bid – Financial Part' in 'Financial Folder' only.
ITB 11.3(d)	The Bidder shall submit the following additional documents in its bid – financial part: None
ITB 12	Note for Bidders: Bidders have to submit the bids on the e-procurement portal along with the relevant required documents. For this purpose, the bidders shall fill

	up online, the forms that are available for online filling on the e-portal. The rest of the forms shall be download by the bidders and filled up. The filled up pages shall then be scanned and uploaded on the e-procurement portal along with the scanned copies of the supporting documents.
ITB 12.3	For submission of original documents, the Purchaser's address is: River Data Compilation-I Dte, Central Water Commission, Wing 5, Ground Floor, West Block-II, R. K. Puram, New Delhi-110066, Tel & Fax: 011-26181267, E-mail: rdccte-cwc@nic.in
ITB 13.1	Alternative Bids shall not be considered.
ITB 14.5	The prices quoted by the Bidder shall not be adjustable.
ITB 14.6	Prices quoted shall correspond to 100 percent of the quantities specified items along with all the necessary ancillary goods, services and works.
ITB 14.7	The Incoterms edition is Incoterms 2010 or higher.
ITB 14.8 (a) (i)	Replace 14.8 (a) (i) with the following: (a) For Goods: (i) the price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable), excluding GST as applicable payable on the finished Goods;
ITB 14.8 (a) (iii)	Final destination (Project Site): <i>as mentioned in Schedule of Requirements.</i>
ITB 14.9	<i>As per latest instruction from Government of India.</i>
ITB 16.4	Period of time the Goods are expected to be functioning (for the purpose of spare parts): a minimum period of 10 years after commissioning.
ITB 17.2 (b) (i)	Manufacturer's authorization is: <i>required as per proforma in Section IV.</i>
ITB 17.2 (b)iii	After Sales service is required which shall be provided by the Supplier or alternatively by its Agent in case of a foreign bidder.
ITB 18.1	The bid validity period shall be 120 days.
ITB 18.3(a)	The factor will be <i>1.0007692% per week.</i> <i>[insert a figure based on current inflation factor in India]</i>
ITB 19.1	Bid shall include a Bid Security (issued by bank) included in Section IV Bidding Forms.

ITB 19.3	The amount of the Bid Security shall be: INR 16 Lakh
ITB 19.3 (a)	Other types of acceptable securities are: None
ITB 20.2	The written confirmation of authorization to sign on behalf of the Bidder shall consist of: Yes, Power of Attorney.
	D. Online Submission and Opening of Bids
ITB 21.1	Class of DSC required is: Class3 DSC
ITB 22.1	The deadline for uploading of bids is: Date& Time: 25.02.2020; 14:30 hrs
ITB 24.1	Re-submission of the bid is allowed only before the deadline of uploading of bid. In case of resubmission of bids only the latest bid shall be considered for evaluation. After that re-submission is not allowed.
	E. Public Opening of Technical Parts of Bids
ITB 25.1	<p>The online opening of the Technical Parts of Bids shall take place at the office of: River Data Compilation-I Dte, Central Water Commission, Wing 5, Ground Floor, West Block-II, R. K. Puram, New Delhi-110066, Tel & Fax: 011-26181267, E-mail: rdc-dte-cwc@nic.in Date: 25.02.2020 Time: 15:00 hrs</p> <p>The person attending the bid opening should have valid authorization from the authorized signatory of the bidder. In the event of the specified date of the bid opening being declared a holiday for the Purchaser, the bids shall be opened at the appointed time and location on the next working day.</p>
	F. Evaluation of Bids – General Provisions
ITB 29.3	The adjustment shall be based on the highest price of the item or component as quoted in other substantially responsive Bids, subject to a maximum of the estimated price of the item. If the price of the item or component cannot be derived from the price of other substantially responsive Bids, the Purchaser shall use its best estimate.
	H. Public Opening of Financial Parts of Bids
ITB 33.2 (c)	Following the completion of the evaluation of the Technical Parts of the Bids, the Purchaser will notify all Bidders of the date and time of the public opening of Financial Parts.

	<p>The online opening of the Financial Parts of bids (for technically qualified bidders) shall take place at:</p> <p>River Data Compilation-I Dte, Central Water Commission, Wing 5, Ground Floor, West Block-II, R. K. Puram, New Delhi-110066, Tel & Fax: 011-26181267, E-mail: rdccte-cwc@nic.in</p>
	I. Evaluation and Comparison of Bids
ITB 34.1(a)	<p>Evaluation will be done for: Single lot</p> <p><i>Bids will not be evaluated for each item separately and single Contract will be concluded with the successful bidder</i></p>
ITB 34.3	<i>Not Applicable</i>
ITB 34.4	<p>Replace ITB 34.4 as follows:</p> <p>The Purchaser's evaluation of a Bid will exclude and not take into account:</p> <ul style="list-style-type: none"> (a) in the case of Goods manufactured in India or goods of foreign origin already located in India, GST and other similar taxes, which will be payable on the goods if a contract is awarded to the Bidder; (b) Not used; (c) any allowance for price adjustment during the period of execution of the contract, if provided in the Bid. <p>But, the purchaser's evaluation of a bid will include i) price for inland transportation, insurance, and other local services required to convey the Goods to their Final Destination; and (ii) price for Related Services, if any.</p>
	J. Award of Contract
ITB 41.1	<p>The maximum percentage by which quantities may be increased is: <i>15%</i></p> <p>The maximum percentage by which quantities may be decreased is: <i>15%</i></p>

Section III. Evaluation and Qualification Criteria

This Section complements the Instructions to Bidders. It contains the criteria that the Purchaser shall use to evaluate a bid and determine whether a Bidder qualifies in accordance with ITB 34 & 36. No other criteria shall be used.

TECHNICAL PART

1. Qualification (ITB 32)

1.1 Qualification Criteria (ITB 32.1)

The Purchaser shall assess each Bid against the following Qualification Criteria. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications.

A. If the Bidder is a manufacturer:

(a) Financial Capability

The Bidder shall furnish documentary evidence that it meets the following financial requirement(s):

- (i) Capacity to have a cash flow: The bidder must provide a letter from Nationalized / Scheduled Bank stating the availability of liquid assets and/or credit facilities exclusively for the contract only, of not less than **INR 240 Lakhs**.
- (ii) The Minimum required annual turnover in respect of business operations for the successful bidder in any two of the last three (05) years shall be **INR 800 Lakhs**. Period of 05 years shall be reckoned from 31st march of financial year preceding the year in which bid is published.
- (iii) Should possess GST Registration.
- (iv) In case of foreign bidder, if presently bidder is not having any office(s) in India, he has to provide the GST registration certificate within one month of award of contract. Further, he has to open its office in India within one month of award of contract and to provide all statutory documents such PAN, GST, registration certificate etc.

(b) Experience and Technical Capacity

The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s):

- (i) The bidder must have manufactured and supplied at least 2nos. of Gas Chromatograph Mass Spectrometer (GCMS) and 2 nos. of Induced Coupled Plasma Mass Spectrometer (ICP-MS) as per the technical specifications provided in "Section – VI, Schedule of Requirements", and also must have installed and commissioned satisfactorily to the extent of and minimum 2 nos. of equipment of each type in any one of the last three years (Prior to the year of bid opening). And it should be in use satisfactorily with no adverse report for minimum of one year preceding the date of bid opening.
- (ii) The bidder should furnish the information on past supplies and satisfactory performance in the Proforma given under Section-IV.

- (iii) Bidders shall invariably furnish documentary evidence (End User's certificate) in support of the satisfactory operation of the goods as specified above.
- (iv) The bidder shall furnish data to support that he has the financial and production capacity to perform the contract and complete the supplies within the stipulated delivery period.
- (v) Further, bidder should be in continuous business of manufacturing / supplying and after sale services of products similar to that specified in the 'Schedule of requirement' during the last 5 years prior to bid opening year.
- (vi) The legal status, place of registration and principal place of business of the company or firm or partnership, etc.;
- (vii) Details of experience and past performance of the bidder on equipment offered and on those of similar nature within the past five years (Prior to the year of bid opening) and details of current contracts in hand and other commitments (suggested Proforma given in Section IV).
- (viii) The Bidder should furnish a brief write-up, backed with adequate data, explaining his available capacity and experience (both technical and commercial) for the manufacture and supply of the required equipment within the specified time of completion after the meeting all their current commitments.
- (ix) The bidder should clearly confirm that all the facilities exist in his factory for inspection and testing and these will be made available to the purchaser or his representative for inspection.
- (x) In case of foreign bidder, the bidder should provide documentary proof, issued by competent authority, that after sale services set up for the equipment being proposed exist in India at least for the last one year from the month of bid opening. If the bidder does not have any after sales service offices at the time of bidding, the same has to be created by bidder within one month of award of contract. Such facilities may be inspected by purchaser.

B. If Bidder is not manufacturer:

If a Bidder is not a manufacturer, but is offering the Goods on behalf of the Manufacturer under Manufacturer's Authorization Form (Section IV, Bidding Forms), the Manufacturer shall demonstrate the above qualifications A (a) and (b) and the Bidder shall demonstrate that it has successfully completed at least one no of each equipment listed in "Section – VII, Schedule of Requirements" in the past 3 years.

- a. Should possess GST registration
- b. The bidder should furnish the information on past supplies and satisfactory performance in the Proforma given under Section-IV.
- c. Bidders shall invariably furnish documentary evidence (End User's certificate) in support of the satisfactory operation of the goods as specified above.

- d. The bidder shall furnish data to support that he has the financial capacity to perform the contract and complete the supplies within the stipulated delivery period.
 - e. Further, bidder should be in continuous business of supplying and after sale services of products similar to that specified in the 'Schedule of requirement' during the last 5 years prior to bid opening year.
 - f. The documentary evidence of the Bidder's eligibility to bid shall establish to the Purchaser's satisfaction that the Bidder, at the time of submission of its bid, is from an eligible country as defined under ITB Clause 4.
 - g. The legal status, place of registration and principal place of business of the company or firm or partnership, etc.;
 - h. Details of experience and past performance of the bidder on equipment offered within the past five years (Prior to the year of bid opening) and details of current contracts in hand and other commitments (suggested Proforma given in Section IV).
 - i. The Bidder should furnish a brief write-up, backed with adequate data, explaining his available capacity and experience (both technical and commercial) for the supply of the required equipment within the specified time of completion after the meeting all their current commitments.
 - j. Reports on financial standing of the bidder such as profit and loss statements, balance sheets and auditor's report for the past three years, bankers certificate, etc.
- C) Notwithstanding anything stated above, the purchaser reserves the right to assess the bidder's capabilities and capacity to execute the contract satisfactorily before deciding on award.
- D) Further, the manufacturer furnishes a legally enforceable authorization in the prescribed Form [Section IV] assuring full guarantee and warranty obligations as per GCC and SCC for the goods offered;
- E) The bidder, as authorized by the manufacturers has after sales support in the region (**within a radius of about 500 km from the CWC headquarters at New Delhi**). In case the service center is not available, then same is required to be established by successful bidder before signing of this contract.
- F) Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or record of poor performance such as, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.

Note:

- 1) The above post qualification requirements are to be met by the bidder (in case of manufacturer bidders) and the bidder and the manufacturer respectively (in case of non-manufacturer bidders) and qualification of group/sister/parent companies will not be considered for meeting the above requirement.

FINANCIAL PART

2. Margin of Preference (ITB 37) – Not Applicable

3. Evaluation (ITB 30, 31 and 34)

3.1. Evaluation Criteria (ITB 34.5)

The Purchaser shall use the criteria and methodologies listed in this Section to evaluate Bids. By applying the criteria and methodologies, the Purchaser shall determine the substantially responsive lowest-evaluated bid.

3.2. Multiple Contracts (ITB 34.3): Not Applicable

SECTION IV – BIDDING FORMS

1A. LETTER OF BID– TECHNICAL PART

The Bidder must prepare the Letter of Bid on stationery with its letterhead clearly showing the Bidder's complete name and address.

Note: All italicized text is for use in preparing these forms and shall be deleted from the final products.

No alterations to the text except as provided in ITB20.2, shall be permitted and no substitutions shall be accepted except as provided in ITB 12.]

Date: *[insert date (as day, month and year) of Bid Submission]*

NCB No.: *[insert number of bidding process]*

Invitation for Bid No.: *[insert No of IFB]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Purchaser]*

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda No. issued in accordance with ITB 8: *[insert the number and issuing date of each Addenda]*;
- (b) We meet the eligibility requirements and have no conflict of interest in accordance with ITB 4;
- (c) We have not been suspended nor declared ineligible by the Purchaser based on execution of a Bid Securing Declaration in the Purchaser's country in accordance with ITB 4.6;
- (d) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services *[insert a brief description of the Goods and Related Services]*;
- (e) Our bid shall be valid for the period of time specified in ITB Sub-Clause 18.1, from the date fixed for the bid submission deadline in accordance with ITB Sub-Clause 22, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;
- (g) We are not participating, as a Bidder or as a subcontractor, in more than one bid in this bidding process in accordance with ITB 4.2(e), other than alternative bids submitted in accordance with ITB 13;
- (h) We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any

entity or individual that is subject to, a temporary suspension or a debarment imposed by the World Bank Group or a debarment imposed by the World Bank Group in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the World Bank and other development banks. Further, we are not ineligible under the Purchaser's Country laws or official regulations or pursuant to a decision of the United Nations Security Council;

- (i) We are not a government owned entity/ We are a government owned entity but meet the requirements of ITB 4.5;¹
- (j) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- (k) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive;
- (l) We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any type of fraud and corruption; and
- (m) We 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."

Name of the Bidder ***[insert complete name of person signing the Bid]***

Name of the person duly authorized to sign the Bid on behalf of the Bidder** ***[insert complete name of person duly authorized to sign the Bid]***

Title of the person signing the Bid ***[insert complete title of the person signing the Bid]***

Signature of the person named above ***[insert signature of person whose name and capacity are shown above]***

Date signed ***[insert date of signing]*** day of ***[insert month]***, ***[insert year]***

** : Person signing the Bid shall have the power of attorney given by the Bidder to be attached with the Bid Schedules.

¹*Bidder to use as appropriate*

1B. LETTER OF BID- FINANCIAL PART

The Bidder must prepare the Letter of Bid on stationery with its letterhead clearly showing the Bidder's complete name and address.

Note: All italicized text is for use in preparing these forms and shall be deleted from the final products.

No alterations to the text except as provided in ITB 20.2, shall be permitted and no substitutions shall be accepted except as provided in ITB 12.]

Date: *[insert date (as day, month and year) of Bid Submission]*

NCB No.: *[insert number of bidding process]*

Invitation for Bid No.: *[insert No of IFB]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Purchaser]*

We, the undersigned Bidder, hereby submit the second part of our Bid, the Financial Part. In submitting our Financial Part we make the following additional declarations:

- (a) Our bid shall be valid for the period of time specified in ITB Sub-Clause 18.1, from the date fixed for the bid submission deadline in accordance with ITB Sub-Clause 22, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

- (b) The total price of our Bid, excluding any discounts offered in item (c) below, is:

In case of only one lot, total price of the Bid ***[insert the total price of the bid in words and figures];***

In case of multiple lots, total price of each lot [insert the total price of each lot in words and figures];

In case of multiple lots, total price of all lots (sum of all lots) [insert the total price of all lots in words and figures];

- (c) The discounts offered and the methodology for their application are:

- (i) The discounts offered are: ***[Specify in detail each discount offered.]***

- (ii) The exact method of calculations to determine the net price after application of discounts is shown below:***[Specify in detail the method that shall be used to apply the discounts];Discounts.***

- (d) The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*

Name of Recipient	Address	Reason	Amount
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(If none has been paid or is to be paid, indicate “none.”)

- (e) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.

Name of the Bidder ***[insert complete name of person signing the Bid]***

Name of the person duly authorized to sign the Bid on behalf of the Bidder** ***[insert complete name of person duly authorized to sign the Bid]***

Title of the person signing the Bid ***[insert complete title of the person signing the Bid]***

Signature of the person named above ***[insert signature of person whose name and capacity are shown above]***

Date signed ***[insert date of signing]*** day of ***[insert month]***, ***[insert year]***

** : Person signing the Bid shall have the power of attorney given by the Bidder to be attached with the Bid Schedules.

2. BIDDER INFORMATION FORM

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid Submission]*

NCB No.: *[insert number of bidding process]*

Page _____ of _____ pages

1. Bidder's Legal Name <i>[insert Bidder's legal name]</i>
2. Bidder's actual or intended Country of Registration: <i>[insert actual or intended Country of Registration]</i>
3. Bidder's Year of Registration: <i>[insert Bidder's year of registration]</i>
4. Bidder's Legal Address in Country of Registration: <i>[insert Bidder's legal address in country of registration]</i>
5. Bidder's Authorized Representative Information Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
6. Attached are copies of original documents of: <i>[check the box(es) of the attached original documents]</i> <input type="checkbox"/> Articles of Incorporation or Registration of firm named in 1, above, in accordance with ITB Sub-Clauses 4.3. <input type="checkbox"/> In case of government owned entity from the Purchaser's country, documents establishing legal and financial autonomy and compliance with commercial law and not dependent agency of borrower or sub-borrower or purchaser, in accordance with ITB Sub-Clause 4.5. <input type="checkbox"/> Included are the organizational chart ,a list of Board of Directors, and the beneficial ownership

Price Schedule Forms

*[The Bidder shall fill in these Price Schedule Forms in accordance with the instructions indicated. The list of line items in column 1 of the **Price Schedules** shall coincide with the List of Goods and Related Services specified by the Purchaser in the Schedule of Requirements.]*

3. PRICE SCHEDULE FOR SUPPLY AS PER SCHEDULE OF REQUIREMENTS

					Prices in INR			Date: _____ NCB No: _____ Alternative No: _____ Page No _____ of _____	
1	2	3	4	5	6	7	8	9	10
Line Item No	Description of Goods	Country of Origin	Delivery Date	Quantity and physical unit	Unit price EXW [including GST as applicable]	Total EXW price per line item [including GST as applicable] (Col. 5×6)	Price per line item for inland transportation, insurance and other services required to convey the Goods to their final destination (ITB 14.8 (a)(iii))	Any other taxes if payable per item if Contract is awarded (in accordance with ITB 14.8(a)(ii))	Total Price per line item (Col. 7+8+9)
<i>[insert number of the item]</i>	<i>[insert name of Good]</i>		<i>[insert quoted Delivery Date]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert EXW unit price including GST as applicable]</i>	<i>[insert total EXW price including GST as applicable, per line item]</i>	<i>[insert the corresponding price per line item]</i>	<i>[insert any other taxes if payable per line item if Contract is awarded]</i>	<i>[insert total price per item]</i>
L.1	Gas Chromatograph Mass Spectrometer (GCMS)*		Within 120 days of receipt supply order by supplier	Four	Do not disclose bid price here. Bid price must be quoted and uploaded in the separate BOQ only in Excel Format; otherwise bid is liable to be rejected.				
L.2	Induced Coupled Plasma Mass Spectrometer (ICP-MS)*		Within 120 days of receipt supply order by supplier	Three					
								Total Price INR	
Name of Bidder <i>[insert complete name of Bidder]</i> Signature of Bidder <i>[signature of person signing the Bid]</i> Date <i>[insert date]</i> Note: *including 5 years standard warranty of the above equipment including all the spare parts.									

4. PRICE AND COMPLETION SCHEDULE - RELATED SERVICES

Prices in INR

Date: _____
 NCB No: _____
 Alternative No: _____
 Page No _____ of _____

1	2	3	4	5	6	7	
Service N°	Description of Services (excludes inland transportation and other services required in India to convey the goods to their final destination)	Country of Origin	Delivery Date at place of Final destination	Quantity and physical unit	Unit price	GST	Total Price per Service (Col. 5*6)
<i>[insert number of the Service]</i>	<i>[insert name of Services after modifying as appropriate deleting inapplicable items from the following]</i>	<i>[insert country of origin of the Services]</i>	<i>[insert delivery date at place of final destination per Service]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price per item]</i>		<i>[insert total price per item]</i>
Item S1: Gas Chromatograph Mass Spectrometer (GCMS)							
S.1.1	<i>Installation and demonstration of full operation of the equipment free of cost.</i>		<i>Within 30 days of receipt of goods.</i>	<i>04 (Four) nos.</i>	Do not disclose bid price here. Bid price must be quoted and uploaded in the separate BOQ only in Excel Format; otherwise bid is liable to be rejected.		
S.1.2	<i>Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods free of cost.</i>		<i>Within 30 days of receipt of goods.</i>	<i>04 (Four) set</i>			
S.1.3	<i>Comprehensive Annual Maintenance Charges (CAMC) after completion of Five-Year Standard Warranty period:</i>		<i>CAMC for 36 months after the end of Standard Warranty period.</i>				
	<i>1st Year CAMC Price</i>			<i>04 (Four) nos.</i>			
	<i>2nd Year CAMC Price</i>			<i>04 (Four) nos.</i>			
	<i>3rd Year CAMC Price</i>			<i>04 (Four) nos.</i>			
S.1.4	<i>Training for 2-3 persons for a week (twice) within a gap of six months for operation and maintenance at installation site free of cost.</i>		<i>Within 90 days of receipt of goods.</i>	<i>04 (Four) nos.</i>			
S.1.5	<i>Supply of consumables along with instrument at the time of delivery:</i>						

a) Filament, high temperature EI for GCMS		<i>At the time of delivery</i>	<i>04 (Four) nos. set of each item{a to w)}</i>	
b) Septa Non-Stick BTO Inlet 11mm 100 pk				
c) Septa Non-Stick BTO Inlet 11mm 50 pk				
d) Graphite O-ring for splitless, 10/pk				
e) Liner, UI, split, straight, Glass Wool, 5/pk				
f) Liner, UI, splitless, single taper, GW, 5/pk				
g) Ferrule, 0.5mm VG 0.32 col 10/PK				
h) Ferrule, 0.4mm Vespel 0.1-0.25 col 10/PK				
i) Ferrule, 0.5mm Vespel 0.32 col 10/PK				
j) Column nut, Self Tightening Inlet/Detect				
k) Glass wool, silane-treated, 50 grams				
l) Auto sampler clear vials with cap and septa (100 Nos.)				
m) Column: DB-5MS 30m, 0.25mm, 0.25um				
n) Column: CP-Wax 51 for Amines 25mx 0.25mm x 0.2um				
o) Column: DB-5 30m, 0.25mm, 0.25u				
p) Column: DB-1MS Ultra Inert 30m, 0.25mm, 0.25um				
q) Syringe, 5.0 uL FN 26 g bevel tip				
r) Auto Sampler Syringe				
s) Syringe, 10ul PTFE tip, FN 23-26/42/HP				
t) Electron multiplier horn, high gain				
u) PFTBA sample, 10 g				
v) Heater/Sensor Assembly				

	w) Split vent trap PM kit, single cartridge						
				Total S.1			
Item S2: Induced Coupled Plasma Mass Spectrometer (ICP-MS)							
S.2.1	Installation and demonstration of full operation of the equipment free of cost.		Within 30 days of receipt of goods.	03(Three) nos.	Do not disclose bid price here. Bid price must be quoted and uploaded in the separate BOQ only in Excel Format, otherwise bid is liable to be rejected.		
S.2.2	Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods free of cost.		Within 30 days of receipt of goods.	03(Three) set			
S.2.3	Comprehensive Annual Maintenance Charges (CAMC) after completion of Five Year Standard Warranty period:		CAMC for 36 months after the end of Standard Warranty period.				
	1st Year CAMC Price			03(Three) nos.			
	2nd Year CAMC Price			03(Three) nos.			
	3rd Year CAMC Price			03(Three) nos.			
S.2.4	Training for 2-3 persons for a week (twice) within a gap of six months for operation and maintenance at the installation site free of cost.		Within 90 days of receipt of goods.	03(Three) nos.			
S.2.5	Supply of consumables along with instrument at the time of delivery\$:		At the time of delivery	03 nos. set of each item{a) to k)}			
	a) Basic Supplies 77/78/79/88/8900, AVF 60						
	b) Vacuum Fluid 45 Gold, 1 Liter						
	c) Spray chamber double pass (Quartz)						
	d) Drain tubing assembly for ICP-MS						
	e) Work coil assembly, 7800/7900 ICP-MS 1/p						
	f) Deflect lens, ICP-MS, 1/pk						
	g) Omega lens for x-lens, 7900 ICP-MS, 1/pk						
h) Screw/Spacer/O-ring for cell, ICP-MS							

	i) Octopole assembly, ICP-MS, 1/pk						
	j) Electron multiplier for 7900 ICP-MS,1/pk						
	k) Oil Element for EMF20 Outlet Mist Filter						
	<p>The following additional spares should be supplied along with the system: (a) Torch kits- 2 nos; (b) Alumina Injector- 2 Nos (c) Quartz Injector – 1 nos (d) Sapphire injectors- 1 Nos (e) Spare nebulizer/spray chamber – 2nos; (f) Sample introduction kit. 1-nos (g) Auto Sampler Tubings – 24 nos . inclusive of all parts.</p> <p>Vendor should supply suitable Chiller re-circulator of appropriate capacity along with the system with warranty of minimum 5 years.</p> <p>Air compressor and purification panels for argon and nitrogen should be included. The vendor should take care of the installation of ducting from the gas cylinders to the instrument.</p> <p>Hydride generator kit should be included for hydride forming elements like As, Hg, Se. Suitable Fume exhaust system should be included.</p>			Total S2			
				Total Bid Price (S1+S2)			

Name of Bidder [insert complete name of Bidder] Signature of Bidder [signature of person signing the Bid] Date [insert date]

Note: ^SPrice of Consumables items shall be valid for 3 years.

5. Forms of Bid Security

Form of Bid Security - Bank Guarantee

[Guarantor letterhead or SWIFT identifier code]

Bank Guarantee No.....*[insert guarantee reference number]*

Date.....*[insert date of issue of the guarantee]*

WHEREAS, _____ *[name of Bidder]*² (hereinafter called "the Applicant") has submitted his Bid dated _____ *[date]* or will submit his Bid for the supply of _____ *[name of Contract]* (hereinafter called "the Bid") under Invitation for Bids No.....*[insert number]* (hereinafter called "the IFB")

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 Purchaser]* (hereinafter called "the Purchaser") in the sum of _____³ for which payment well and truly to be made to the said Purchaser the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of _____ 20____.

THE CONDITIONS of this obligation are:

- (1) If after Bid opening the Applicant (a) withdraws his bid during the period of Bid validity specified in the Letter of Bid; or (b) does not accept the correction of the Bid Price pursuant to ITB 35;

or

- (2) If the Applicant having been notified of the acceptance of his bid by the Purchaser during the period of Bid validity:
 - (a) fails or refuses to execute the Contract Agreement in accordance with the Instructions to Bidders, if required; or
 - (b) fails or refuses to furnish the Performance Security, in accordance with the Instruction to Bidders.

²*In the case of a JV, the bidder should be stated as "a Joint Venture consisting of, and".*

³*The Applicant 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 19.1 of the Instructions to Bidders.*

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

This Guarantee will remain in force up to and including the date _____⁴ 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 Purchaser, 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]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

⁴45 days after the end of the validity period of the Bid.

6. MANUFACTURER'S AUTHORIZATION

*[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are legally binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the **BDS**.]*

Date: *[insert date (as day, month and year) of Bid Submission]*

NCB No.: *[insert number of bidding process]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Purchaser]*

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* to submit a bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract against the above IFB.

We hereby extend our full guarantee and warranty in accordance with Clause 28 of the General Conditions of Contract, with respect to the Goods offered by the above firm against this IFB.

No company or firm or individual other than M/s. _____ are authorized to bid, and conclude the contract for the above goods manufactured by us against this specific IFB. *[This para should be deleted for simple items where manufacturers normally sell the product through different stockists].*

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Note – Modify this format suitably in cases where manufacturer's warranty and guarantee are not applicable for the items for which bids are invited. If the supply consists of number of items, indicate the specific item (s) for which alone the above authorization is required.

7. DECLARATION FOR CLAIMING TAX/DUTY EXEMPTION⁵

(Name of the Project)

Bid No.

Description of item to be supplied

.....

(Information for issue of certificate for claiming exemption of Tax/ Duty in terms of Government of India's relevant notification)

(Bidder's Name and Address):

To

(Name of Purchaser)

.....

Dear Sir:

1. We confirm that we are solely responsible for obtaining deemed export benefits which we have considered in our bid and in case of failure to receive such benefits for reasons whatsoever, Purchaser will not compensate us.
2. We are furnishing below the information required by the Purchaser for issue of necessary certificate in terms of Government of India's relevant notification.

(i) Ex-factory price per unit on which the tax/duty is payable: *Rs.

(ii) No of Units to be supplied:

(iii) Total cost on which the tax/duty is payable

(Rs.)

*(The requirements listed above are as per
Current notifications. These may be modified,
as necessary, in terms of the rules in force)*

(Signature) _____

(Printed Name) _____

(Designation) _____

(Common Seal) _____

⁵ This declaration refers to ITB 14.9 and shall be retained only if ITB 14.9 is retained. The format may be modified as per the latest instructions of Government of India.

** Please attach details item-wise with cost, if there are more than one items. The figures indicated should tally with what is given in the price schedule.*

8. PERFORMA FOR PERFORMANCE STATEMENT

[Please see ITB Clause 36.2 and Section III-
Evaluation and Qualification Criteria]

Proforma for Performance Statement (for a period of last three/five years)

Bid No. _____ Date of opening _____ Time _____ Hours

Name of the Firm _____

<u>Order placed by (full address of Purchaser)</u>	<u>Order No. and date</u>	<u>Description and quantity of ordered equipment</u>	<u>Value of order</u>	<u>Date of completion of delivery</u>		<u>Remarks indicating reasons for late delivery, if any</u>	<u>Has the equipment been satisfactorily functioning? (Attach a certificate from the Purchaser/Consignee)</u>
1	2	3	4	As per contract	Actual	7	8

Signature and seal of the Bidder _____

SECTION V. – ELIGIBLE COUNTRIES

Public Information Center

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

In reference to ITB 4.7 and 5.1, for the information of the Bidders, at the present time firms, goods and services from the following countries are excluded from this bidding process:

Under ITB 4.7(a) and 5.1: *[insert a list of the countries following approval by the Bank to apply the restriction or state “none”].*

Under ITB 4.7(b) and 5.1: *[insert a list of the countries following approval by the Bank to apply the restriction or state “none”]*

SECTION VI. BANK POLICY - CORRUPT AND FRAUDULENT PRACTICES

Guidelines for Procurement of Goods, Works, and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers, dated January 2011.

“Fraud and Corruption:

1.16 It is the Bank’s policy to require that Borrowers (including beneficiaries of Bank loans), bidders, suppliers, contractors and their agents (whether declared or not), sub-contractors, sub-consultants, service providers or suppliers, and any personnel thereof, observe the highest standard of ethics during the procurement and execution of Bank-financed contracts.⁶ 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” is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;⁷
 - ii) “fraudulent practice” 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;⁸
 - (iii) “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;⁹

⁶ In this context, any action to influence the procurement process or contract execution for undue advantage is improper.

⁷ For the purpose of this sub-paragraph, “*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.

⁸ For the purpose of this sub-paragraph, “*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.

⁹ For the purpose of this sub-paragraph, “*parties*” refers to participants in the procurement process (including public officials) attempting either themselves, or through another person or entity not participating in the procurement or selection process, to simulate competition or to establish bid prices at artificial, non-competitive levels, or are privy to each other’s bid prices or other conditions.

- (iv) “coercive practice” 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;¹⁰
- (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 paragraph 1.16(e) below.
- (b) will reject a proposal for award if it determines that the bidder recommended for award, or any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- (c) will declare misprocurement and cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement or the implementation of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- (d) will sanction a firm or individual, at any time, in accordance with the prevailing Bank’s sanctions procedures,¹¹ including by publicly declaring such firm or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Bank-financed contract; and (ii) to be a nominated¹²;

¹⁰ For the purpose of this sub-paragraph, “party” refers to a participant in the procurement process or contract execution.

¹¹ A firm or individual may be declared ineligible to be awarded a Bank financed contract upon: (i) completion of the Bank’s sanctions proceedings as per its sanctions procedures, including, inter alia, cross-debarment as agreed with other International Financial Institutions, including Multilateral Development Banks, and through the application the World Bank Group corporate administrative procurement sanctions procedures for fraud and corruption; and (ii) as a result of temporary suspension or early temporary suspension in connection with an ongoing sanctions proceeding. See footnote 14 and paragraph 8 of Appendix 1 of these Guidelines.

¹² A nominated sub-contractor, consultant, manufacturer or supplier, or service provider (different names are used depending on the particular bidding document) is one which has either been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

- (e) will require that a clause be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers and contractors, and their sub-contractors, agents, personnel, consultants, service providers, or suppliers, to permit the Bank to inspect all accounts, records, and other documents relating to the submission of bids and contract performance, and to have them audited by auditors appointed by the Bank.”

PART 2 - SUPPLY REQUIREMENTS

SECTION VII – SCHEDULE OF REQUIREMENTS

1. LIST OF GOODS AND DELIVERY SCHEDULE

Line Item N°	Description of Goods	Quantity	Physical unit	Final (Site) Destination as specified in BDS	Delivery (as per Incoterms) Date	
					Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
<i>[insert item No]</i>	<i>[insert description of Goods]</i>	<i>[insert quantity of item to be supplied]</i>	<i>[insert physical unit for the quantity]</i>	<i>[insert place of Delivery]</i>	<i>[insert the number of days following the date of effectiveness the Contract]</i>	<i>[Bidder to insert the number of days following the date of effectiveness the Contract]</i>
1.	Gas Chromatograph Mass Spectrometer (GCMS)*	Four	Nos.	New Delhi Hyderabad Guwahati Varanasi	Within 120 days of receipt supply order by supplier	
2.	Induced Coupled Plasma Mass Spectrometer (ICP-MS)*	Three	Nos.	New Delhi Guwahati Varanasi	Within 120 days of receipt supply order by supplier	

[The Purchaser shall fill in this table, with the exception of the column “Bidder's offered Delivery date” to be filled by the Bidder]

*Note: *including 5 years standard warranty of the above equipment including all the spare parts.*

2. List of Related Services [ITB Clause 14.8(b)] and Completion Schedule

Service	Description of Service	Quantity ¹	Physical Unit	Place where Services shall be performed	Final Completion Date(s) of Services
<i>[insert Service No]</i>	<i>[insert description of Related Services]</i> <i>[Insert after modifying as appropriate deleting inapplicable items from the following:]</i>	<i>[insert quantity of items to be supplied]</i>	<i>[insert physical unit for the items]</i>	<i>[insert name of the Place]</i>	<i>[insert required Completion Date(s)]</i>
Gas Chromatograph Mass Spectrometer (GCMS)					
S.1.1	Installation and demonstration of full operation of the equipment free of cost.	4 (Four)	Nos.	New Delhi Hyderabad Guwahati Varanasi	Within 30 days of receipt of goods.
S.1.2	Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods free of cost.	4 (Four)	Sets		Within 30 days of receipt of goods.
S.1.3	Comprehensive Annual Maintenance Charges (CAMC) after completion of Five Year Standard Warranty period:		Nos.		CAMC for 36 months after the end of Standard Warranty period.
	1st Year CAMC Price	4 (Four)			
	2nd Year CAMC Price	4 (Four)			
	3rd Year CAMC Price	4 (Four)			
S.1.4	Training for 2-3 persons for a week (twice) within a gap of six months for operation and maintenance at installation site free of cost.	4 (Four)	Nos.		Within 90 days of receipt of goods.

S.1.5	<i>Supply of consumables along with instrument at the time of delivery:</i> a) Filament,high temperature EI for GCMS b) Septa Non-Stick BTO Inlet 11mm 100 pk c) Septa Non-Stick BTO Inlet 11mm 50 pk d) Graphite O-ring for splitless, 10/pk e) Liner,UI,split,straight,Glass Wool, 5/pk f) Liner,UI,splitless,single taper,GW, 5/pk g) Ferrule, 0.5mm VG 0.32 col 10/PK h) Ferrule, 0.4mm Vespel 0.1-0.25 col 10/PK i) Ferrule, 0.5mm Vespel 0.32 col 10/PK j) Column nut,Self Tightening Inlet/Detect k) Glass wool, silane-treated, 50 grams l) Auto sampler clear vials with cap and septa (100 Nos.) m) Column: DB-5MS 30m, 0.25mm, 0.25um n) Column: CP-Wax 51 for Amines 25mx 0.25mm x 0.2um o) Column: DB-5 30m, 0.25mm, 0.25u p) Column: DB-1MS Ultra Inert 30m, 0.25mm, 0.25um q) Syringe, 5.0 uL FN 26 g bevel tip r) Auto Sampler Syringe s) Syringe, 10ul PTFE tip, FN 23-26/42/HP t) Electron multiplier horn, high gain u) PFTBA sample, 10 g v) Heater/Sensor Assy w) Split vent trap PM kit,single cartridge	4 (Four)	Set		At the time of delivery
Induced Coupled Plasma Mass Spectrometer (ICP-MS)					
S.2.1	<i>Installation and demonstration of full operation of the equipment free of cost.</i>	3 (Three)	Nos.	New Delhi Guwahati Varanasi	<i>Within 30 days of receipt of goods.</i>
S.2.2	<i>Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods free of cost.</i>	3 (Three)	Sets		<i>Within 30 days of receipt of goods.</i>

S.2.3	<i>Comprehensive Annual Maintenance Charges (CAMC) after completion of Five Year Standard Warranty period:</i>				<i>CAMC for 36 months after the end of Standard Warranty period.</i>
	<i>1st Year CAMC Price</i>	3 (Three)	Nos.		
	<i>2nd Year CAMC Price</i>	3 (Three)			
	<i>3rd Year CAMC Price</i>	3 (Three)			
S.1.4	<i>Training for 2-3 persons for a week (twice) within a gap of six months for operation and maintenance at installation site free of cost.</i>	3 (Three)	Nos.		<i>Within 90 days of receipt of goods.</i>
S.2.6	<i>Supply of consumables along with instrument at the time of delivery:</i> a) Basic Supplies 77/78/79/88/8900, AVF 60 b) Vacuum Fluid 45 Gold, 1 Liter c) Spray chamber double pass (Quartz) d) Drain tubing assembly for ICP-MS e) Work coil assembly, 7800/7900 ICP-MS 1/p f) Deflect lens, ICP-MS, 1/pk g) Omega lens for x-lens, 7900 ICP-MS, 1/pk h) Screw/Spacer/O-ring for cell, ICP-MS i) Octopole assembly, ICP-MS, 1/pk j) Electron multiplier for 7900 ICP-MS, 1/pk k) Oil Element for EMF20 Outlet Mist Filter	3 (Three)	Set		<i>At the time of delivery</i>

[This table shall be filled in by the Purchaser. The Required Completion Dates should be realistic, and consistent with the required Goods Delivery Dates (as per Incoterms)]

3. TECHNICAL SPECIFICATIONS

Summary of Technical Specifications. The Goods and Related Services shall comply with following Technical Specifications and Standards:

A.1	Gas Chromatograph Mass Spectrophotometer (GC-MS)	
S. No.	Specifications	Requirement
1.0	INSTRUMENT COMPOSITION	
	Gas Chromatograph with accessories	One Set
	Injectors	Two Sets, one for manual injections and another with Auto sampler
	Mass Spectrometer with accessories	One Set
	Capillary columns with accessories	One Set of each specified columns
	Software for Automatic control of the system, Data Acquisition and processing	One Set
	Vacuum Pump for MS with accessories	One Set
	Electron Capture Detector (ECD) with accessories	One Set
	Auto Sampler	One Set
2.0	TECHNICAL SPECIFICATIONS	
2.1	Gas Chromatograph	Fully Computer controlled with Injectors, Oven, Detector, EPC and related electronics
2.2	Make	Basic unit as well as other major components of the same manufacturer
2.3	Display	Alphanumeric digital display in at least four lines
2.4	Parameters setting & control	Through Application Software as well as through Keyboard of the Instrument
2.5	Injector/Detector mounting	2 Injectors
2.6	Capillary Column Mounting	Capable to hold two capillary columns of different diameter (100 µm to 530 µm)

2.7	Heated Zones	At least five Heated Zones including two Injectors, Oven, Detector and Auxiliary
2.8	Purge system	Gas Saver and Septum Purge System
2.9	Memory protection	Memory protection during Power Failure
2.10	Diagnostics & self-testing	Built in Diagnostics and Comprehensive Self-Testing
2.11	Data Acquisition	Simultaneous from two signal channels i.e. Mass Spectrometer and ECD
3.0	INJECTOR-1	Split/splitless Injector (for Manual Injection)
3.1	Constituents	Modular Injector with Heater, Temperature and Pressure Sensors
3.2	Modes of Injections	Splitless and Split Injections
3.3	Column compatibility	100 to 530 mm ID Capillary Columns
3.4	Provisions for	Overheat Protection , Septum Purge and Gas Saver
3.5	User Settings	User adjustable setting of Split Ratio, Purge Flow and Purge Time
3.6	Temperature Range	50°C to 400°C or more
3.7	Temperature Increments	Minimum 1°C in the entire operating range
3.8	Temperature programming capability	Injector temperature programming
3.9	Temperature Programme Ramps	At least 3
3.10	Temperature Ramp Rate Range	Up to 120°C/min or more
3.11	Pressure programming capability	Yes
3.12	Number of Pressure Programme Ramps	At least 3
3.13	EPC Pressure Range	0 to 100 psi
3.14	Operation Modes	Constant Pressure, Ramped Pressure, Constant Flow and Ramped Flow
3.15	Total Flow setting range	N ₂ : 0.1 to 100 ml/min, He: 0.1 to 100 ml/min, H ₂ : 0.1 to 1000 ml/min
3.16	Maintenance	Quick and easy maintenance provisions
4.0	INJECTOR-2	Multimode Injector (for use with Auto sampler) – Located at Back position
4.1	Constituents	Modular Injector with Heater, Temperature and Pressure sensor
4.2	Inlet Options	Split/split less, temperature programmable, Large Volume

		Injection and Cool on column injections
4.3	Modes of Injections	Hot or cold split/splitless, Pulsed split/ splitless, Solvent vent and Direct
4.4	Column compatibility	50 to 320 mm ID Capillary Columns
4.5	Provisions for	Overheat Protection , Septum Purge and Gas Saver
4.6	User Settings	User adjustable setting of Split Ratio, Purge Flow and Purge
4.7	Temperature Range	50°C to 450°C
4.8	Temperature Increments	Minimum 1°C in the entire operating range
4.9	Temperature programming capability	Upto 7 ramps at up to 450 °C/min or above.
4.10	Temperature Programme Ramps	At least 3
4.11	Temperature Ramp Rate Range	From 0.1 to 120°C/min
4.12	Pressure programming capability	Yes
4.13	EPC Pressure Range	0 to 100 psi
4.14	Operation Modes	Constant Pressure, Ramped Pressure, Constant Flow and Ramped Flow
4.15	Total Flow setting range	N ₂ : 0.1 to 100 ml/min, He: 0.1 to 100 ml/min, H ₂ : 0.1 to 1000 ml/min
4.16	Maintenance	Quick and easy maintenance provisions
5.0	OVEN	
5.1	Volume	More than 13 Liters; should have provision to accommodate minimum two nos. Capillary columns or more at a time.
5.2	Column Compatibility	Capillary (0.10 / 0.20 / 0.32 / 0.53 mm ID)
5.3	Temperature Range	50°C to 450°C or more
5.4	Temperature Increments	Minimum 1°C
5.5	Temperature Accuracy	± 1% for the entire range
5.6	Temperature Stability	± 0.1°C
5.7	Column Overheat Protection	User defined setting
5.8	Oven Safety Features	Oven power must turn off automatically when the lid /door is opened automatic carrier gas shut off if inlet pressure drops significantly.
5.9	Temperature Programming	Minimum 15 Ramps and 16 Plateaus
5.10	Programming Rate Range	0.1 to 150 °C/min or better

5.11	Heat Up Time	Less than 2.0 min (50°C or lower to 250°C)
5.12	Cool Down Time	Less than 4.0 min (450°C to 50°C)
5.13	Resetting of Program	Automatic by user defined sequence
5.14	Maximum Run Time	Minimum 650 minutes
5.15	Injector Compatibility	Split / Splitless Injector and Multimode Injector
5.16	Detector Compatibility	Mass Spectrometer (MS)
6.0	ELECTRONIC PNEUMATICS CONTROL (EPC) SYSTEM	
6.1	Type	Dual column, dual flow
6.2	Control of inlet pressure, flow rate of the carrier gas and split ratio	Through the Application Software
6.3	Parameters Display	On-screen digital display
6.4	Pressure and flow programming	Time programmable between the run
6.5	Dean's pressure switch	For bifurcating the column eluents to two different columns
7.0	CAPILLARY COLUMNS	
7.1	HP-5MS or equivalent	60 m x 0.25 mm x 0.25 µm
7.2	HP- ULTRA – 2 or Equivalent	25m x 0.20 mm x 0.33µm
7.3	Uncoated deactivated Silica Column(Guar Colum)	5m x 0.25 mm
8.0	MASS SPECTROMETER (DETECTOR)	
8.1	Control	Provisions for automatic Start and Shut Down through Application Software. Parameters should be set and controlled through the Software
8.2	GC Interface	Short heated Interface
8.3	Interface Temperature range	100°C to 350°C
8.4	Mass Source	Should have EI, CI, Positive CI, Negative CI facility with automatic tuning and acquire both SIM and scan data from single injection.
8.5	Electron Source	Easy access heated inert Filament
8.6	EI / CI Source Change-over	Easy & Quick changeover by user
8.7	Source Temperature Range	100°C to 350°C or better
8.8	Analyser Type	Transmission Quadrupole with pre-filter
8.9	Noise Reduction	Heated Quadrupole Pre-filter / Entrance lens / any other proven means for noise reduction.

8.10	Analyser Temperature Range	150°C to 200°C
8.11	Mass Range	2 to 1000 amu or more
8.12	Mass Stability	Less than ± 0.1 amu accuracy over 48 hours
8.13	Ionisation Modes	Electron Ionisation, Positive / Negative Chemical Ionisation
8.14	Electron Ionisation Voltage	10 – 100 eV
8.15	Vacuum Pump	200 L/sec or better highly efficient Turbo-Molecular Pump
8.16	Pump Down Time	For air / water < 3 minutes
		For qualitative stability < 15 minutes
		For qualitative stability < 90 minutes
8.17	Detector	<p>FID detector with the following specification or better: MDL: < 3 pg c/s OR Better Dynamic range: > 10^7 range or better Maximum operating temperature 425° C or better <u>ECD Detector</u> ECD detector with the following specification or better: Minimum detection level: 5fg/ml lindane or less Linear Dynamic range better than 10^4 Maximum temp. should be 400 °C or better</p>
8.18	Mass Tuning Standard	PFTBA (FC-43), BFB, DFTPP
8.19	Resolution	1 amu or better
8.20	Scan Rate	Fully variable 12000 amu / sec or more
8.21	Scan Step Size	0.1 amu or less
8.22	Acquisition Rate	50 Full Scans or better / sec depending on mass range
8.23	Linear Dynamic Range	Concentration 10^5
		Electronic $10^6 - 10^7$ dependent on acquisition rate
8.24	Number of SIM Groups / Run	Minimum 60 Groups
8.25	Number of Ions/Group	Minimum 100 Ions
9.0	SENSITIVITY (DETECTION LIMITS)	
9.1	EI Scan	1500:1 S/N for 1 pg OFN scanning from 50-300 amu at nominal m/z 272 ion.
9.2	EI SIM Scan	15 fg or better

10.0	MASS SPECTRAL LIBRARIES	
10.1	NIST Mass Spectral Library	Version Year 2014 or latest preloaded on Data Station and Licensed backup CD Compatible with operation software.
10.2	NIST Chemical Structures Database	Latest version available on date of quotation preloaded on Data Station and backup Licensed CD compatible with operation software.
11.0	ADDITIONAL CAPABILITIES	
11.1	Acquisition	Simultaneous Full Scan as well as SIM Acquisition
11.2	Applying constant flow rate	To the MS regardless of column flow rate (use of any column at any flow rate)
11.3	Column replacement	Without cooling and venting the MS
11.4	Injector Maintenance	Without cooling and venting the MS / Back flushing
12.0	AUTOSAMPLER	
12.1	Number of Sample Vials	Capable of accommodating 50 Vials or more
12.2	Syringe capacity	Capable of accommodating up to six different syringe capacity
12.3	Injection volume	Selectable between 1 and 10 micro litre or more should be available
12.4	Washing solvent	Up to four different washing solvents in 4 ml Vials
12.5	Programming	Sequence and repetition programmable from workstation software
13.0	OPERATING CONDITIONS	
13.1	Power Supply	230 ± 10 Volts; 50 ± 1 Hz AC Power supply
13.2	Operating Temperature	15°C to 30°C
14.3	Relative Humidity	40 to 80 %, non-condensing
14.0	DATA STATION	
	Application Software	Multitasking software with programming facility
	Capabilities	Accurate and Reproducible Integration
		Reintegration / Replot
		Baseline Correction
		Multilevel Calibration
		Background Subtraction

		Library Search
		Quantitative Search
		Customizable Report Formats
	Software control	The whole system including GC – MS and Injectors
	Parameters control	Flow, Temperature, Pressure and Vacuum System
	System Auto Tuning	Through Tuning Standards
	Analytical Quality Control	Calibration check samples
		Spike recoveries
		Calibration verification and
		QC limits
15.0	COMPUTER SYSTEM	
		Compatible computer system with latest hardware and software with minimum 8 GB DDR 4 RAM upgradable to 32 GB, Minimum HDD 1 TB SATA, Intel Core i7 with latest generation, minimum 24” TFT monitor with Minimum Resolution 1920X1080, Latest in built MS Office and Anti-Virus with LaserJet colour Printer with Wi-Fi printing, Compatible UPS with minimum power back up of one hour.
16.0	Consumables	Quantity
	Filament,high temperature EI for GCMS	1
	Septa Non-Stick BTO Inlet 11mm 100 pk	1
	Septa Non-Stick BTO Inlet 11mm 50 pk	1
	Graphite O-ring for splitless, 10/pk	1
	Liner,UI,split,straight,Glass Wool, 5/pk	1
	Liner,UI,splitless,single taper,GW, 5/pk	1
	Ferrule, 0.5mm VG 0.32 col 10/PK	1
	Ferrule, 0.4mm Vespel 0.1-0.25 col 10/PK	1
	Ferrule, 0.5mm Vespel 0.32 col 10/PK	1
	Column nut,Self Tightening Inlet/Detect	1
	Glass wool, silane-treated, 50 grams	1
	Auto sampler clear vials with cap and septa (100 Nos.)	1

	Column: DB-5MS 30m, 0.25mm, 0.25um	1
	Column: CP-Wax 51 for Amines 25mx 0.25mm x 0.2um	1
	Column: DB-5 30m, 0.25mm, 0.25u	1
	Column: DB-1MS Ultra Inert 30m, 0.25mm, 0.25um	1
	Syringe, 5.0 uL FN 26 g bevel tip	1
	Auto Sampler Syringe	1
	Syringe, 10ul PTFE tip, FN 23-26/42/HP	1
	Electron multiplier horn, high gain	1
	PFTBA sample, 10 g	1
	Heater/Sensor Assy	1
	Split vent trap PM kit, single cartridge	1
17.0	Accessories	
	Analytical Manual	Analytical manual along with application notes for the analysis of VOCs, PAH and carbonyl compounds.
	Service manual	Service manual
	Starting kit	Starting kit with one set of required tools for each system/unit
	Spare Parts catalogue	Spare Parts catalogue
	Trouble shooting charts	Trouble shooting charts
	Methodology package software	Comprehensive EPA methodology package software (CD- ROM) for environmental application (VOCs, PAHs, carbonyl, etc.)
	Gas purification Panel	Complete with gas purification traps <ul style="list-style-type: none"> Moisture trap-silica gel-molecular sieve 50:50 – length 10 inch – 2 nos. Hydrocarbon trap – Activated charcoal filter for hydrocarbon removal – length 10 inch – 02 nos. Oxygen trap–High capacity oxy trap–capacity more than125CC-- length 10 inch- 2 no.
	Gas Cylinders	High Pressure Stainless Steel cylinder filled with high purity 99.99% analytical gases (as mentioned ahead) having gas capacity 7m ³ (water capacity 47l). Cylinder should ISI marked confirming to IS 7285 flat bottom fitted with valve as per IS:3224 complete with neck ring and cap painted as specified under Gas Cylinder Rule 1981.

		<ul style="list-style-type: none"> Gas cylinder should be supplied with hydraulic test certificate and explosive certificate from Chief Controller of Explosives, Nagpur. Helium – One No. Hydrogen – Two No. Nitrogen- Two no. Zero Air – Two No.
	Gas Cylinders Trolley	One No. Gas cylinders Trolley for transporting gas cylinder from transport vehicle to gas room/Laboratory Stainless steel trolley heavy-duty construction with rugged polypropylene straps, stainless steel cinch buckles with – 8-inch wheel made up of high strength polymer material for safe, easy and convenient transfer of single gas cylinder up to 12” in diameter.
A.2	Related Services:	
	<i>a) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods</i>	Free Installation and demonstration of full operation of the equipment.
	<i>b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods</i>	All tools and spare parts that are required for the operation of the equipment during the warranty period must be supplied with the equipment.
	<i>c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods</i>	Operational and Service Manuals: Firm should provide all the manuals i.e. operation service and reference manuals. Service manuals should contain full details of hardware and schematic diagrams (having details of gas control assembly, PCB assembly, detector assembly, RF assembly, power supply assembly, main cable routing& connections and other electrical circuit details) for the future repair. All the manuals should be in English Language.
	<i>d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract</i>	Warranty: The period of validity of the Standard Warranty shall be Five years (60 months) after successful installation, testing, commissioning and acceptance. Standard Warranty period shall be followed by Three years (36 months) Comprehensive AMC.
	<i>e) Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i>	Training: Free On-site Training for 2 numbers for 10 persons in each training for a week after installation testing commissioning and acceptance.

B.1 INDUCTIVELY COUPLED PLASMA MASS SPECTROMETER (ICP-MS)		
S. No.	Specifications	Requirement
1.0	INSTRUMENT COMPOSITION	
	RF System	One unit
	Nebulizer & Spray Chamber	One unit
	Peristaltic Pump	One unit
	Plasma Torch	One unit
	Mass Spectrometer	One unit
	Auto Sampler / Diluter	One unit
	Data Work Station	One unit
2.0	TECHNICAL SPECIFICATION	
2.1	System Application	Computer controlled fully automatic, data workstation based, ICP-MS System
		Sub-ppt analysis, simultaneous multi-elemental analysis with exceptional sensitivity and stability of diverse range of environmental, biological, geological and industrial samples.
2.2	System Operation	Computer controlled Solid State RF Generator without any consumable parts.
		Auto start from Switch or computer keyboard
		Automatic detector system controlled by Multitasking Windows based operating software with built-in diagnostics
		High-speed data acquisition system, quality control protocols, calibration, auto optimization and auto tuning of system with status display
2.3	RF System	Solid State, auto start RF generator (27/40 MHz or more), without any consumable parts.
	Wattage	Computer controlled from 400 Watt to 1600 Watt in 1 watt increment with auto tuning.
	Power Efficiency	Greater than 75% with < 0.1% variation in output power stability. Should provide high efficiency, superior performance for elements such as As, Se and Hg.
2.4	Sample Introduction System	<p>A. Sample introduction system should have low sample aspiration (approx. 0.40 ml/min or better) and should also work with samples with high TDS content.</p> <p>B. Standard single piece quartz injector torch with optimum diameter for matrix decomposition and sample ionization.</p> <p>C. Sample introduction system and assemble should be easily accessible for maintenance.</p>

		D. For HF digested samples appropriate accessories must be provided.
2.5	Spray Chamber	Temperature controlled spray chamber with efficient peltier cooling (-5°C to + 20 °C) device to prevent signal drift caused by large changes in room temperature and also to reduce solvent loading on the plasma so that a higher plasma temperature can be achieved reducing oxide interferences, and assisting in matrix decomposition
	Location	Cyclonic spray chamber should be located in a thermally controlled area
2.6	Plasma Torch	Easily demountable Quartz Torch for plasma. The computer controlled plasma torch adjustment/alignment for optimal analytical positioning relative to ion sampler interface.
	Torch design	Several multiple loops of an induction coil with three concentric tubes. Central tube to inject sample aerosol and carrier gas introduction, middle tube for plasma gas (argon) and outermost tube for Auxiliary gas
	Corrosion Resistance	Torch should be full corrosion resistant to all acids including Aqua- Regia
	Torch Adjustment	Computer controlled plasma torch adjustment / alignment for optimal analytical positioning relative to ion sample interface
	Neutral Plasma	Capable to produce electrically neutral plasma fully controllable through PC
2.7	Plasma Gas Control	Computer Controlled Plasma Gas (Argon) flow controlled by Mass Flow Controller
	Range	Range 0-20 LPM in 1 LPM increment
2.8	Safety Interlock	Monitoring and display the shear gas pressure, plasma gas pressure, sample compartment door closure, water flow, plasma stability, interlock status.
	Automation	Automatic shutdown of plasma, in case any of the features is interrupted.
2.9	Plasma Ignition	Computer controlled Plasma ignition. Software should have capability to ignite Plasma automatically at user determined time to warm up the system prior to analysis.
	Power Control	Automatic turn off of plasma after analysis.
2.10	Cooling System	Water re-circulating cooling system with appropriate flow & pressure and temperature between 15 to 25 °C.
2.11	Peristaltic Pump	Computer controlled, multi-channel (3-4) pumps.
	Speed	0.2 to 5.0 mL/min in 0.1 ml/min increments, precise computer controlled pumping of the sample
	Pump operation	Should be auto-fast for rapid rinse out, washout and analysis time

	Location	Located close to spray chamber for faster rise.
3.0	MASS SPECTROMETER	High Resolution Magnetic
3.1	Detector	Solid state dual stage dynode discrete over 8 orders of magnitude with count response range of 2×10^6 (low resolution) to 2×10^4 (high resolution) cps / ppb.
		Should be unique log amplifier circuit, features a high speed analog mode for transient signals and a true nine orders dynamic range.
		Minimum dwell time 100 μ s (in both pulse count and analog modes)
3.2	Dynamic Range	Complete periodic table inclusive of all isotopes, dynode electron multiplier detector or equivalent.
		Capable of analysis of all measurable elements including of high ionization potential in a single run including As, Hg, Sb, Bi, Se elements in up to ppt level.
3.3	Vacuum system	Noise free, Air cooled turbo molecular pump having capacity of producing 1×10^{-5} torr or less pressure in analyser.
3.4	Quadrupole	Quadrupole system should have 3.0 MHz or more quad resolution, best resolution and mass accuracy. Made of gold coated ceramic for a very low coefficient of thermal expansion.
3.5	Mass Calibration stability	Better than 0.05 amu/day.
3.6	Nebulizer	Cross flow.
3.7	Mass Range	2 – 260 amu or better.
3.8	Detection Limit (ng/l)	(A) Low Mass: 0.1 - 0.5ppt (B) Mid Mass: <0.1ppt (C) High Mass: <0.1ppt
3.9	Sensitivity	Should be capable to quantify from ppt to high ppm without dilution.
		(A) Low Mass: ≥ 15 Mcps/ppm (B) Mid Mass: ≥ 150 Mcps/ppm (C) High Mass: ≥ 100 Mcps/ppm
4.0	ION EXTRACTION	Ion extraction from plasma through two or more cones (sampler and skimmer) type interface, sampling cone orifice diameter shall be 0.8 mm or greater.
4.1	Cone Tip	Standard sampling cone tip and sharpener cone tip of Nickel.
		Additional 2 Nos. Ni sampling cone and skimmer cone and 2 Nos. platinum sampling cone and skimmer cone. Skimmer cone servicing shall be without the need of venting the high vacuum portion of spectrometer use.
		Should specify the life of sampler cone / skimmer cone with HNO ₃

4.2	Stability	Long term stability <4% RSD for >2-4 Hrs for 24 Mg 63Ca, 114 Cd; 208 Pb.
		Short term stability <4% RSD for 24 Mg; 63 Cu; 114 Cd; 208 Pb.
4.3	Background Signal	Less than 5 cps for mass 220
4.4	Ion Beam Detection	Dual stage discrete dynode electron multiplier with a count response range of 2×10^6 cps.
4.5	High TDS capability	Should be able to perform direct analysis of 1% solids or greater without dilution. The direct analysis must also be automatically tuned for robustness depending on solid content via integrated software.
5.0	WATER CHILLER	Efficient thermal management, noise free, re-circulating heat exchange water chiller of reputed make.
6.0	AUTO SAMPLER/DILUTER	Highly effective Auto sampler/Diluter compatible with operation along with ICP-MS without user intervention.
	Capacity	Auto sampler with 150 or more tubes holder space and cover with 500 nos. 15 ml capacity tubes.
	Programming facility	Programmable complete with inert PTFE coated probe with PTFE inner tubing
	Extension tube	Spare extension tube complete with 20 ml syringe for programmed auto dilution
7.1	Application Software (Features)	Programme facility with multitasking software displaying method sample and analysis status.
		Instrument control reintegration/report, multi-level calibration, automatic data acquisition and processing.
		Calculation of data and report formatting.
		External and dilution calibration, automatic correction for interferences and measurement with internal standards.
		Measurement of transient signals, self-diagnosis, remote diagnostics and LAN connectivity.
		Quality control protocols including preparation blanks, multiple quality control standards, calibration, check samples, spike recoveries, duplicates calibration failure and QC limits.
		Storage of complete spectrum of elements for future reference.
		Provision for statistical analysis, printer/plotter function and battery backup for memory protection.
		Linear least squares – weighted linear least squares, linear forced through zero least squares.
		Standard additions methods, addition calibration.

		Real time graphics with ability to display transient and continuous signal profile.
		Should control whole ICP MS system sample introduction, calibration, quantitative analysis, data retrieval data acquisition and reporting.
		Auto optimization of plasma parameter customizable instrument status display software control of MS and other accessories.
7.2	QUALITY CONTROL SUPPORT	Supplier should provide Certificate on Installation Qualification (IQ), Performance Qualification (PQ) & Operational Qualification (OQ) during the installation of the instrument. The activity should cover limit of detection and limit of quantification.
7.3	Computer System	
		Compatible computer system with latest hardware and software with minimum 8 GB DDR 4 RAM upgradable to 32 GB, Minimum HDD 1 TB SATA, Intel Core i7 with latest generation, minimum 24" TFT monitor with Minimum Resolution 1920X1080, Latest in built MS Office and Anti-Virus with LaserJet colour Printer with Wi-Fi printing, Compatible UPS with minimum power back up of one hour.
8.0	ADDITIONAL ITEMS	
8.1	Reference Standards	Multi elemental calibration standards having at least 30 elements should be supplied in 10 ppm range – 5 Nos.
8.2	Manual	Operation and maintenance manual for each unit.
8.3	Application notes	Application notes (CD-ROM) for elemental analysis in environmental, geological, metallurgical, biological and industrial samples.
8.4	Methodology package	Comprehensive EPA methodology package software (CD-ROM) for environmental application.
8.5	Service manual	Service manual with set of required tools for each system/unit.
8.6	Spare parts catalogue	One set
8.7	Trouble shooting charts	Trouble shooting charts of all sub units.
8.8	Dust cover	Dust cover for all sub units.
8.9	Operation kit	Operation kit comprising all required items pump tubings, transfer tubings, work coils etc. for start-up/regular operation of instrument.
8.10	Consumables	Quantity

	Basic Supplies 77/78/79/88/8900, AVF 60	1
	Agilent Vacuum Fluid 45 Gold, 1 Liter	1
	Spray chamber double pass (Quartz)	1
	Drain tubing assembly for ICP- MS	1
	Work coil assembly, 7800/7900 ICP-MS 1/p	1
	Deflect lens, ICP-MS, 1/pk	1
	Omega lens for x-lens, 7900 ICP-MS, 1/pk	1
	Screw/Spacer/O-ring for cell, ICP-MS	1
	Octopole assembly, ICP-MS, 1/pk	1
	Electron multiplier for 7900 ICP-MS,1/pk	1
	Oil Element for EMF20 Outlet Mist Filter	1
	Basic Supplies 77/78/79/88/8900, AVF 60	1
9.0	LOCAL SUPPLIES	
9.1	Stainless steel Hood and Duct	Corrosion resistant stainless steel hood and duct for exhausting of acidic fumes.
9.2	Pressure Regulator	Corrosion resistant / stainless steel two stage Argon and Helium gas regulators with max cylinders pressure 4000 psi / 280 kg /cm ² and line pressure 230 psi / 16 kg/cm.
9.3	Argon and Helium gas cylinders	Four Argon and two Nitrogen gas cylinders. High pressure seamless steel cylinder filled with High purity 99.999% Argon gas, and another Nitrogen gas with having gas capacity 7m ³ water capacity 47 litres, cylinders should be ISI marked, conforming to IS:7285. Specification, flat bottom fitted with valve as per IS:3224, complete with neck ring and cap, painted as specified under Gas Cylinders Rules, 1981 along with Hydraulic test certificate, ISI Inspection / Test certificate, Explosive certificate from Chief Controller of Explosives, Nagpur India as per BIS Standard with 47 liter cylinder: Argon – Four cylinder filled Helium – Two cylinder filled

B.2	Related Services:	
	<i>a) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods</i>	Free Installation and demonstration of full operation of the equipment.
	<i>b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods</i>	All tools and spare parts that are required for the operation of the equipment during the warranty period must be supplied with the equipment.
	<i>c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods</i>	Operational and Service Manuals: Firm should provide all the manuals i.e. operation service and reference manuals. Service manuals should contain full details of hardware and schematic diagrams (having details of gas control assembly, PCB assembly, detector assembly, RF assembly, power supply assembly, main cable routing & connections and other electrical circuit details) for the future repair. All the manuals should be in English Language.
	<i>d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract</i>	Warranty: The period of validity of the Standard Warranty shall be Five years (60 months) after successful installation, testing, commissioning and acceptance. Standard Warranty period shall be followed by Three years (36 months) Comprehensive AMC.
	<i>e) Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i>	Training: Free On-site Training for 2 numbers for 10 persons in each training for a week after installation testing commissioning and acceptance.

4. DRAWINGS

These Bidding Documents includes *[insert “the following “or “no”]* drawings.

[If documents shall be included, insert the following List of Drawings]

List of Drawings		
DRAWING NO.	Drawing Name	Purpose
Nil	Nil	Nil

5. INSPECTIONS AND TESTS

The following inspections and tests shall be performed at each delivery locations after delivery of equipment:

1. Copy of certificate for satisfactory functioning of the equipment at full operating capacity shall be provided by the bidder at its own expense and at no cost to the Purchaser.
2. Purchaser shall also do the inspections and tests at his own premises after delivery of the equipment in the presence of authorized representative of the firm. Following inspections and tests shall be conducted:
 - a. Inspection for damage of equipment or any part of it.
 - b. Availability of all spare parts, accessories, manuals, etc.
 - c. Desired warranty as per the bid document.
 - d. Checking for leaks and Autotuning.
 - e. Checking for EI Scan S/N Ratio.
 - f. Checking for EI MRM S/N Ratio.
 - g. Checking for Autotuning CI.
 - h. Checking for CI MRM S/N Ratio.
 - i. Checking for Autotuning NCI.
 - j. Checking NCI SIM S/N Ratio.
 - k. Checking for Direct Insertion.

6. PROFORMA OF CERTIFICATE FOR ISSUE BY THE PURCHASER AFTER SUCCESSFUL INSTALLATION AND STARTUP OF THE SUPPLIED GOODS

[This is to be attached for supply, erection, supervision of erection and startup contracts only]

No.

Date:

M/s.

Sub: Certificate of startup of the supplied Goods

1. This is to certify that the plant/s as detailed below has/have been received in good condition along with all the standard and special accessories (subject to remarks in Para No. 2) and a set of spares in accordance with the Contract/Specifications. The same has been installed and commissioned.

- (a) Contract No. _____ dated _____
- (b) Description of the plant _____
- (c) Plant Nos. _____
- (d) Quantity _____
- (e) Rail/Roadways Receipt No. _____ dated _____
- (f) Name of the consignee _____
- (g) Date of startup and proving test _____

2. Details of accessories/spares not yet supplied and recoveries to be made on that account.

<u>S. No.</u>	<u>Description</u>	<u>Amount to be recovered</u>
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3. The proving test has been done to our entire satisfaction and operators have been trained to operate the plant.

4. The supplier has fulfilled his contractual obligations satisfactorily. *

or

The supplier has failed to fulfill his contractual obligations with regard to the following:

- (a)
 - (b)
 - (c)
 - (d)
5. The amount of recovery on account of non-supply of accessories and spares is given under Para No. 2.
6. The amount of recovery on account of failure of the supplier to meet his contractual obligations is as indicated in endorsement of the letter.

Signature _____

Name _____

Designation with Stamp _____

* Explanatory notes for filling up the certificates:

- (a) He has adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to Technical Specifications.
- (b) He has supervised the startup of the plant in time i.e., within the period specified in the contract from the date of intimation by the Purchaser in respect of the installation of the plant.
- (c) Training of personnel has been done by the supplier as specified in the contract
- (d) In the event of documents/drawings having not been supplied or installation and startup of the plant have been delayed on account of the supplier, the extent of delay should always be mentioned.

PART 3 – CONTRACT

SECTION VIII – GENERAL CONDITIONS OF CONTRACT

Section VIII. General Conditions of Contract

1. Definitions

The following words and expressions shall have the meanings hereby assigned to them:

- (a) “Bank” means the World Bank and refers to the International Bank for Reconstruction and Development (IBRD) or the International Development Association (IDA).
- (b) “Contract” means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
- (c) “Contract Documents” means the documents listed in the Contract Agreement, including any amendments thereto.
- (d) “Contract Price” means the price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.
- (e) “Day” means calendar day.
- (f) “Completion” means the fulfillment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.
- (g) “GCC” means the General Conditions of Contract.
- (h) “Goods” means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract.
- (i) “Purchaser’s Country” is India.
- (j) “Purchaser” means the entity purchasing the Goods and Related Services, as specified in the SCC.
- (k) “Related Services” means the services incidental to the supply of the goods, such as insurance, installation, start-up, training and initial maintenance and other such obligations of the Supplier under the Contract.

- (l) “SCC” means the Special Conditions of Contract.
 - (m) “Subcontractor” means any natural person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.
 - (n) “Supplier” means the natural person, private or government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.
 - (o) “The Project Site,” where applicable, means the place named in the **SCC**.
- 2. Contract Documents**
- 2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.
- 3. Corrupt & Fraudulent Practices**
- 3.1 The Bank requires compliance with its policy in regard to corrupt and fraudulent practices as set forth in Appendix to the GCC.
- 3.2 The Purchaser requires the Supplier to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the bidding process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.
- 4. Interpretation**
- 4.1 If the context so requires it, singular means plural and vice versa.
- 4.2 Incoterms.
- (a) Unless inconsistent with any provision of the Contract, the meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms.
 - (b) The terms EXW and other similar terms, when used, shall be governed by the rules prescribed in the current edition of Incoterms specified in the **SCC** and published by the International Chamber of Commerce in Paris, France.

4.3 Entire Agreement

The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of Contract.

4.4 Amendment

No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

4.5 Nonwaiver

- (a) Subject to GCC Sub-Clause 4.5(b) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.
- (b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

4.6 Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

5. Language

- 5.1 The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be English. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in English language, in which case, for purposes of interpretation of the Contract, this translation shall govern.
- 5.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation, for documents provided by the Supplier.

6. Deleted

7. Eligibility

- 7.1 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.
- 7.2 All Goods and Related Services to be supplied under the Contract and financed by the Bank shall have their origin in Eligible Countries. For the purpose of this Clause, origin means the country where the goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

8. Notices

- 8.1 Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the **SCC**. The term “in writing” means communicated in written form with proof of receipt.
- 8.2 A notice shall be effective when delivered or on the notice’s effective date, whichever is later.

9. Governing Law

- 9.1 The Contract shall be governed by and interpreted in accordance with the laws of the Union of India.

10. Settlement of Disputes

- 10.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- 10.2 If, after twenty-eight (28) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract. Arbitration proceedings shall be conducted in accordance with the rules of procedure **specified in the SCC**.
- 10.3 Notwithstanding any reference to arbitration herein,

- (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
 - (b) the Purchaser shall pay the Supplier any monies due the Supplier.
- 11. Inspections and Audit by the Bank**
 - 11.1 The Supplier shall keep, and shall make all reasonable efforts to cause its Subcontractors to keep, accurate and systematic accounts and records in respect of the Goods in such form and details as will clearly identify relevant time changes and costs
 - 11.2 The Supplier shall permit, and shall cause its Subcontractors to permit, the Bank and/or persons appointed by the Bank to inspect the Supplier's offices and all accounts and records relating to the performance of the Contract and the submission of the bid, and to have such accounts and records audited by auditors appointed by the Bank if requested by the Bank. The Supplier's and its Subcontractors and consultants' attention is drawn to Clause 3 [Fraud and Corruption], which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under this Sub-Clause 11.1 constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures)
- 12. Scope of Supply**
 - 12.1 The Goods and Related Services to be supplied shall be as specified in the **Special Conditions of Contract**.
- 13. Delivery and Documents**
 - 13.1 Subject to GCC Sub-Clause 33.1, the Delivery of the Goods and Completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in the Schedule of Requirements. The details of shipping and other documents to be furnished by the Supplier are specified in the **SCC**.
- 14. Supplier's Responsibilities**
 - 14.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with GCC Clause 12, and the Delivery and Completion Schedule, as per GCC Clause 13.
- 15. Contract Price**
 - 15.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in the **SCC**.
- 16. Terms of Payment**
 - 16.1 The Contract Price, including any Advance Payments, if applicable, shall be paid as specified in the **SCC**.

- 16.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered and Related Services performed, and by the documents submitted pursuant to GCC Clause 13 and upon fulfillment of all other obligations stipulated in the Contract.
- 16.3 Payments shall be made promptly by the Purchaser, but in no case later than sixty (60) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.
- 16.4 The payments shall be made in Indian Rupees to the Supplier under this Contract.
- 16.5 In the event that the Purchaser fails to pay the Supplier any payment by its due date or within the period set forth in the **SCC**, the Purchaser shall pay to the Supplier interest on the amount of such delayed payment at the rate shown in the **SCC**, for the period of delay until payment has been made in full, whether before or after judgment or arbitration award.
- 17. Taxes and Duties**
- 17.1 The Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.
- 18. Performance Security**
- 18.1 If required as specified in the **SCC**, the Supplier shall, within twenty-one (21) days of the notification of contract award, provide a performance security for the performance of the Contract in the amount specified in the **SCC**.
- 18.2 The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 18.3 As specified in the **SCC**, the Performance Security shall be denominated in the Indian Rupees, and shall be in the format stipulated by the Purchaser in the **SCC**, or in another format acceptable to the Purchaser.
- 18.4 The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than twenty-eight (28) days following the date of Completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in the **SCC**.
- 19. Copyright**
- 19.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by

the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.

20. Confidential Information

- 20.1 The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Subcontractor such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier under GCC Clause 20.
- 20.2 The Purchaser shall not use such documents, data, and other information received from the Supplier for any purposes unrelated to the contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Purchaser for any purpose other than the performance of the Contract.
- 20.3 The obligation of a party under GCC Sub-Clauses 20.1 and 20.2 above, however, shall not apply to information that:
- (a) the Purchaser or Supplier need to share with the Bank or other institutions participating in the financing of the Contract;
 - (b) now or hereafter enters the public domain through no fault of that party;
 - (c) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or
 - (d) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
- 20.4 The above provisions of GCC Clause 20 shall not in any way modify any undertaking of confidentiality given by either of the

parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.

20.5 The provisions of GCC Clause 20 shall survive completion or termination, for whatever reason, of the Contract.

21. Subcontracting

21.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the bid. Such notification, in the original bid or later shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.

21.2 Subcontracts shall comply with the provisions of GCC Clauses 3 and 7.

22. Specifications and Standards

22.1 Technical Specifications and Drawings

(a) The Goods and Related Services supplied under this Contract shall conform to the technical specifications and standards mentioned in Section VII, Schedule of Requirements and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the Goods' country of origin.

(b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.

(c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with GCC Clause 33.

23. Packing and Documents

23.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.

- 23.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in the **SCC**, and in any other instructions ordered by the Purchaser.
- 24. Insurance** 24.1 Unless otherwise specified in the **SCC**, the Goods supplied under the Contract shall be fully insured—against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery, in accordance with the applicable Incoterms or in the manner specified in the **SCC**.
- 25. Transportation & Incidental Services** 25.1 Unless otherwise specified in the **SCC**, responsibility for arranging transportation of the Goods shall be in accordance with the specified Incoterms.
- 25.2 The Supplier may be required to provide any or all of the following services, including additional services, if any, **specified in Schedule of Requirements and SCC**:
- (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods;
 - (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;
 - (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
 - (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
 - (e) training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods
- 25.3 Prices charged by the Supplier for incidental services, if not included in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.
- 26. Inspections and Tests** 26.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified in the **SCC**.
- 26.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at

the Goods' final destination, or in another place in the Purchaser's Country as specified in the **SCC**. Subject to GCC Sub-Clause 26.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.

- 26.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in GCC Sub-Clause 26.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.
- 26.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.
- 26.5 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.
- 26.6 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.
- 26.7 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to GCC Sub-Clause 26.4.
- 26.8 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report

pursuant to GCC Sub-Clause 26.6, shall release the Supplier from any warranties or other obligations under the Contract.

27. Liquidated Damages

27.1 Except as provided under GCC Clause 32, if the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the **SCC** of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in those **SCC**. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to GCC Clause 35.

28. Warranty

28.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

28.2 Subject to GCC Sub-Clause 22.1(b), the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.

28.3 Unless otherwise specified in the **SCC**, the warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the **SCC**, or for eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.

28.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.

28.5 Upon receipt of such notice, the Supplier shall, within the period specified in the **SCC**, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.

28.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the **SCC**, the Purchaser may proceed to take within a reasonable period such remedial action

as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

29. Patent Indemnity

29.1 The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 29.2, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

- (a) the installation of the Goods by the Supplier or the use of the Goods in the country where the Site is located; and
- (b) the sale in any country of the products produced by the Goods.

Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Supplier, pursuant to the Contract.

29.2 If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Sub-Clause 29.1, the Purchaser shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

29.3 If the Supplier fails to notify the Purchaser within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.

29.4 The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing.

29.5 The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors from and against

any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Supplier may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Purchaser.

30. Limitation of Liability

- 30.1 Except in cases of criminal negligence or willful misconduct,
- (a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser, and
 - (b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier to indemnify the purchaser with respect to patent infringement.

31. Change in Laws and Regulations

- 31.1 Unless otherwise specified in the Contract, if after the date of 28 days prior to date of Bid submission, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in India, where the Site is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with GCC Clause 15.

32. Force Majeure

- 32.1 The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to

perform its obligations under the Contract is the result of an event of Force Majeure.

32.2 For purposes of this Clause, “Force Majeure” means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

32.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

**33. Change Orders
and Contract
Amendments**

33.1 The Purchaser may at any time order the Supplier through notice in accordance GCC Clause 8, to make changes within the general scope of the Contract in any one or more of the following:

- (a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
- (b) the method of shipment or packing;
- (c) the place of delivery; and
- (d) the Related Services to be provided by the Supplier.

33.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier’s performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery/Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within twenty-eight (28) days from the date of the Supplier’s receipt of the Purchaser’s change order.

33.3 Prices to be charged by the Supplier for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall

not exceed the prevailing rates charged to other parties by the Supplier for similar services.

- 33.4 Subject to the above, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

34. Extensions of Time

- 34.1 If at any time during performance of the Contract, the Supplier or its subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services pursuant to GCC Clause 13, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.

- 34.2 Except in case of Force Majeure, as provided under GCC Clause 32, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 26, unless an extension of time is agreed upon, pursuant to GCC Sub-Clause 34.1.

35. Termination

- 35.1 Termination for Default

- (a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:
- (i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 34;
 - (ii) if the Supplier fails to perform any other obligation under the Contract; or
 - (iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in GCC Clause 3, in competing for or in executing the Contract.
- (b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 35.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those

undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

35.2 Termination for Insolvency.

- (a) The Purchaser may at any time terminate the Contract by giving notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser.

35.3 Termination for Convenience.

- (a) The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- (b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
 - (i) to have any portion completed and delivered at the Contract terms and prices; and/or
 - (ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

36. Assignment

- 36.1 Neither the Purchaser nor the Supplier shall assign, in whole or in part, their obligations under this Contract, except with prior written consent of the other party.

APPENDIX TO GENERAL CONDITIONS

Bank's Policy- Corrupt and Fraudulent Practices

(text in this Appendix shall not be modified)

Guidelines for Procurement of Goods, Works, and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers, dated January 2011:

“Fraud and Corruption:

1.16 It is the Bank's policy to require that Borrowers (including beneficiaries of Bank loans), bidders, suppliers, contractors and their agents (whether declared or not), sub-contractors, sub-consultants, service providers or suppliers, and any personnel thereof, observe the highest standard of ethics during the procurement and execution of Bank-financed contracts.¹³ 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” is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;¹⁴
- (ii) “fraudulent practice” 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;¹⁵
- (iii) “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;¹⁶

¹³ In this context, any action to influence the procurement process or contract execution for undue advantage is improper.

¹⁴ For the purpose of this sub-paragraph, “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.

¹⁵ For the purpose of this sub-paragraph, “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.

¹⁶ For the purpose of this sub-paragraph, “parties” refers to participants in the procurement process (including public officials) attempting either themselves, or through another person or entity not participating in the procurement or selection process, to simulate competition or to establish bid prices at artificial, non-competitive levels, or are privy to each other's bid prices or other conditions.

- (iv) “coercive practice” 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;¹⁷
- (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 paragraph 1.16(e) below.
- (b) will reject a proposal for award if it determines that the bidder recommended for award, or any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- (c) will declare mis procurement and cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement or the implementation of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- (d) will sanction a firm or individual, at any time, in accordance with the prevailing Bank’s sanctions procedures,¹⁸ including by publicly declaring such firm or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Bank-financed contract; and (ii) to be a nominated¹⁹;

¹⁷ For the purpose of this sub-paragraph, “party” refers to a participant in the procurement process or contract execution.

¹⁸ A firm or individual may be declared ineligible to be awarded a Bank financed contract upon: (i) completion of the Bank’s sanctions proceedings as per its sanctions procedures, including, inter alia, cross-debarment as agreed with other International Financial Institutions, including Multilateral Development Banks, and through the application the World Bank Group corporate administrative procurement sanctions procedures for fraud and corruption; and (ii) as a result of temporary suspension or early temporary suspension in connection with an ongoing sanctions proceeding. See footnote 14 and paragraph 8 of Appendix 1 of these Guidelines.

¹⁹ A nominated sub-contractor, consultant, manufacturer or supplier, or service provider (different names are used depending on the particular bidding document) is one which has either been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

- (e) will require that a clause be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers and contractors, and their sub-contractors, agents, personnel, consultants, service providers, or suppliers, to permit the Bank to inspect all accounts, records, and other documents relating to the submission of bids and contract performance, and to have them audited by auditors appointed by the Bank.”

SECTION IX. SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract (SCC) shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

[The Purchaser shall select insert the appropriate wording using the samples below or other acceptable wording, and delete the text in italics]

GCC 1.1(j)	The Purchaser is: Director, River Data Compilation-I Dte, Central Water Commission, Wing 5, Ground Floor, West Block-II, R. K. Puram, New Delhi-110066, Tel & Fax: 011-26181267, E-mail: rdccte-cwc@nic.in				
GCC 1.1 (o)	The Project Site(s)/Final Destination(s) is:				
	S. No	Name of Organisation	Address of Delivery	No. of GCMS	No. of ICPMS
	1.	Yamuna Basin Organisation, CWC	National River Water Quality Laboratory, Yamuna Basin Organisation, Central Water Commission, Kalindi Bhawan, B5, Tara Crescent Road, Qutub Institutional Area, New Delhi-110016	01	01
	2.	Krishna Godavari Basin Organisation, CWC	Krishna Godavari Basin Organisation, Central Water Commission, Krishna Godavari Bhawan, 1 st Floor, House No. 11-4-648, A.C.Gurads, Hyderabad-500004	01	0
	3.	Brahmaputra & Barak Basin Organisation, CWC	Middle Brahmaputra Division Complex, Central Water Commission, Behind Adabari Bus Stand, Post- Jalukabari, Guwahati- 781024	01	01
	4.	Upper Ganga Basin Organisation, CWC	Middle Ganga Division-III, Central Water Commission, Akashdeep, 2 nd Floor, Panna Lal Park, Varanasi-221002	01	01
		Total..		04	03
GCC 4.2 (b)	The version edition of Incoterms shall be 2010.				

GCC 8.1	<p>For <u>notices</u>, the Purchaser's address shall be: Director, River Data Compilation-I Dte, Central Water Commission, Wing 5, Ground Floor, West Block-II, R. K. Puram, New Delhi-110066, Tel & Fax: 011-26181267, E-mail: rdccte-cwc@nic.in</p>
GCC 10.2	<p>Settlement of Disputes The dispute settlement mechanism to be applied for adhoc arbitration shall be as follows:</p> <ul style="list-style-type: none"> (a) In case of Dispute or difference arising between the Purchaser and a domestic supplier 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 as amended up-to-date. The arbitral tribunal shall consist of 3 arbitrators one each to be appointed by the Purchaser and the Supplier. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties and shall act as Presiding arbitrator. In 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). (b) In the case of a dispute with a Foreign Supplier, the dispute shall be settled in accordance with provisions of UNCITRAL (United nations Commission on International Trade Law) Arbitration Rules. The Arbitral Tribunal shall consist of three Arbitrators one each to be appointed by the Purchaser and the Supplier. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the parties, and shall act as presiding arbitrator. In 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). (c) If one of the parties fails to appoint its arbitrator in pursuance of sub-clause (a) and (b) above, within 30 days after receipt of the notice of the appointment of its arbitrator by the other party, then the *Indian Council of Arbitration/president of the Institution of Engineers (India)/The International Centre for Alternative Dispute Resolution (India), both in cases of the Foreign supplier as well as Indian supplier, shall appoint the arbitrator. A certified copy of the order of the President of the Institution of Engineers (India, making such an appointment shall be furnished to each of the parties.

	<p>(d) Arbitration proceedings shall be held at Delhi_ India, and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English.</p> <p>(e) 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>(f) Where the value of the contract is Rs. 10 million 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 *Indian Council of Arbitration/President of the Institution of Engineers (India)/The International Centre for Alternative Dispute Resolution (India).</p> <p>(g) Except otherwise agreed to by the Parties, Arbitrators should give a decision in writing within 120 days of receipt of notification of dispute.</p> <p>(* <i>Delete whichever is not applicable</i>).</p> <p>The arbitral tribunal shall consist of 3 Arbitrators, arbitration proceedings shall be held at <u>Delhi, India</u> and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English. <i>[ICA rules provide for arbitration tribunal of 3 arbitrators if the value of claim is over Rs 1 crore unless the parties have agreed otherwise for a sole arbitrator]</i>.</p> <p>Except as otherwise agreed to by the Parties, Arbitrators should give a decision in writing within 120 days of receipt of notification of dispute.</p>
GCC 12.1 and 25.2	<p>The scope of supply for the Goods and Related Services to be supplied shall be as specified below: <i>Supply of</i></p> <ol style="list-style-type: none"> 1. <i>Four Gas Chromatograph Mass Spectrometer</i> 2. <i>Three Induced Coupled Plasma Mass Spectrometer (ICP-MS)</i> 3. <i>Both the above goods with five years standard warranty and three years comprehensive annual maintenance after completion of Standard Warranty period.</i>

<p>GCC 13.1</p>	<p>Details of Shipping and other Documents to be furnished by the Supplier are given below:</p> <p>GCC 13.1 Upon delivery of the goods to the transporter/consignee, the supplier shall notify the purchaser and mail the following documents to the Purchaser:</p> <ul style="list-style-type: none"> (i) Three Copies of the Supplier invoice showing contract number, goods description, quantity, unit price, total amount; (ii) Delivery note, Railway receipt, or Road consignment note or equivalent transport document or acknowledgement of receipt of goods from the Consignee; (iii) three copies of packing list identifying contents of each package; (iv) Insurance certificate; (v) Manufacturer's/Supplier's warranty certificate; (vi) Inspection certificate issued by the nominated inspection agency, and the Supplier's factory inspection report; and (vii) Certificate or origin. <p>The above documents shall be received by the Purchaser before arrival of the Goods (except where it is handed over to the Consignee with all documents) and if not received, the supplier will be responsible for any consequent expenses.</p>
<p>GCC 15.1</p>	<p>The Contract Price is INR.....</p> <p>The prices charged for the Goods supplied and the related Services performed shall not be adjustable.</p>
<p>GCC 16.1</p>	<p>GCC 16.1 Payment shall be made in Indian Rupees in the following manner:</p>

	<p>(a)</p> <ul style="list-style-type: none"> (i) Advance Payment: Ten (10) % of the total contract price excluding CAMC shall be paid within thirty (30) days of signing of Contract and upon submission of claim / against a simple receipt and a bank guarantee for the equivalent amount valid until the goods are delivered tested and commissioned and in the form provided in the bidding documents or another form acceptable to the Purchaser. (ii) Fifty (50) % Contract Price excluding CAMC, plus total GST amount charged in Invoice against Supply of Goods shall be released after 30 days of the successful Delivery and installation of all the instruments/ Equipment as per Schedule of Requirements and its final acceptance upon submission of the documents specified in clause 13 of SCC. (iii) Twenty (20) % of Contract Price excluding CAMC will be paid after 30 days of testing, commissioning and final acceptance (iv) Thirty (30) % of the Contract Price excluding CAMC shall be paid during the Standard warranty period of 05(Five) years as per follows; 6% per year to be paid on Half Yearly basis (3% at every six month) inclusive of GST payable on Supply of related services. <p>Advance payment of 10% paid against Bank Guarantee will be adjusted in 20% payment paid on testing, commissioning and final acceptance as stated above</p> <ul style="list-style-type: none"> (v) CAMC cost inclusive of GST payable on it, shall be paid on half yearly basis after 5 years of onsite manufacturer warranty period (vi) Payment of Local Taxes such as GST will be against valid Invoice as per GST ACT & Rules and submission of GST Registration Certificate along with declaration that GST Registration is valid and all liabilities towards GST have been discharged by the vendor. GST amount will be paid after 30 days of submission of valid Invoice and all required documents and declaration by vendor.
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	<p>(b) (i) For all the payments to be made, against Bank guarantees, the bank guarantee shall be issued by a Scheduled Indian Bank or a foreign bank located in India in the format enclosed at Section X. The guarantees issued by other banks should be confirmed by a Scheduled Indian Bank or a foreign bank operating in India.</p> <p>(ii) Bank guarantees for advance payment shall be released not later than 30 days after the date of completion of supply of the goods at their final destination.</p>
GCC 16.5	<p>The payment-delay period after which the Purchaser shall pay interest to the supplier shall be 60 days.</p> <p>The interest rate that shall be applied is 4%. (<i>Prime Bank lending rate of State Bank of India</i>)</p>
GCC 17	<p>In the case of tax/ duty waiver, the purchaser will issue only the certificates in terms of the Government of India's notification as per information given by supplier in form stipulated in Section IV. Supplier is solely responsible for obtaining such benefits and in case of failure to receive such benefits, the purchaser will not compensate the supplier separately.</p>
GCC 18.1	<p>Performance Security to the Purchaser shall be for an amount of 5% of the contract value which include CAMC cost also, valid upto 60 days after the date of completion of performance obligations including warranty obligations.</p> <p>In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected/ replaced material shall be extended to a further period of 12 months and the Performance Bank guarantee for proportionate value shall be extended 60 days over and above the extended warranty period.</p>
GCC 18.3	<p>If required, the Performance Security shall be in the form of a "Bank Guarantee" or "a cashier's cheque or banker's certified cheque or crossed demand draft or pay order" drawn in favour of the Purchaser.</p>

GCC 18.4	Discharge of the performance Security shall take place not later than 60 days following the date of completion of the Supplier's performance obligations, including the warranty obligation, under the contract.
GCC 18.5	<p>Add as Clause 18.5 to the GCC the following:</p> <p>In the event of any contractual amendment, the Supplier shall, within 21 days of receipt of such amendment, furnish the amendment to the Performance Security, rendering the same valid for the duration of the Contract, as amended for 60 days after the completion of performance obligations including warranty obligations.</p>
GCC 23.2	<p><u>Packing Instructions:</u> The Supplier will be required to make separate packages for each Consignee. Each package will be marked on three sides with proper paint/indelible ink with the following:</p> <p>(i) Project; (ii) Contract No.; (iii) Country of Origin of Goods; (iv) Supplier's Name; (v) Packing List Reference Number.</p> <p>Suppliers should use recycled materials as much as possible for packing</p>
GCC 24.1	The insurance shall be paid in an amount equal to 110 percent of the EXW value of the Goods from "Warehouse to warehouse (final destination)" on "All Risks" basis including War Risks and Strikes.
GCC 25.1	The Supplier is required under the Contract to transport the Goods duly insured to the specified final destination, and all related costs shall be included in the Contract Price.
GCC 25.2	Incidental services to be provided are: All services under GCC clause 25.2

GCC 26.1	<p>The inspections and tests shall be:</p> <p>The supplier shall get each item indicated in the Schedule of requirement inspected in manufacturer's works and submit a test certificate and also manufacturer's guarantee /warranty certificate that the items are conforms to the laid down specification.</p> <p>The Purchaser or its representative may inspect and /or test any or all the items to confirm their conformity to the contract specification, prior to dispatch from the manufacturer's premises. Such inspection and clearance will not prejudice the right of the consignee to inspect and test the items on receipt at destination to verify conformity to technical specification.</p> <p>If the items are fails to meet the laid down specifications the supplier shall take immediate steps to remedy the deficiency or replace the defective parts of the each to the satisfaction of the purchaser/ consignee.</p>
GCC 26.2	The Inspections and tests shall be conducted at: At installation site
GCC 27.1	The liquidated damages shall be: 0.5% of contract price per week or part thereof.
GCC 27.2	The maximum amount of liquidated damages shall be: 10% of the contract price.
GCC 28.3	The period of validity of the Standard Warranty shall be five years (60 months) after successful installation, testing, commissioning and acceptance.
GCC 28.5	The period for repair or replacement shall be: 15 days.
GCC 28.6	The period for repair or replacement shall be: 15 days.
GCC 31.1	This clause will apply only to variations in GST and other taxes payable in India on the final product which is being supplied and not for variations in tax on the individual components / raw materials which go into the product.

Attachment: Price Adjustment Formula

Not Applicable

SECTION X – CONTRACT FORMS

1. LETTER OF ACCEPTANCE

[letterhead paper of the Purchaser]

[date]

To: *[name and address of the Supplier]*

Subject: **Notification of Award Contract No.**

This is to notify you that your Bid dated . . . *[insert date]* . . . for execution of the *[insert name of the contract and identification number, as given in the SCC]* for the Accepted Contract Amount of *[insert amount in numbers and words in Rupees]*, as corrected and modified in accordance with the Instructions to Bidders is hereby accepted by our Agency.

You are requested to furnish the Performance Security within 21 days in accordance with the Conditions of Contract, using for that purpose the of the Performance Security Form included in Section X, Contract Forms, of the Bidding Document.

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Agency: _____

Attachment: Contract Agreement

2. CONTRACT AGREEMENT

[The successful Bidder shall fill in this form in accordance with the instructions indicated]

THIS CONTRACT AGREEMENT is made

the [*insert: number*] day of [*insert: month*], [*insert: year*].

BETWEEN

- (1) [*insert complete name of Purchaser*], a [*insert description of type of legal entity, for example, an agency of the Ministry of of the Government of { insert name of Country of Purchaser }, or corporation incorporated under the laws of { insert name of Country of Purchaser }*] and having its principal place of business at [*insert address of Purchaser*] (hereinafter called “the Purchaser”), and
- (2) [*insert name of Supplier*], a corporation incorporated under the laws of [*insert: country of Supplier*] and having its principal place of business at [*insert: address of Supplier*] (hereinafter called “the Supplier”).

WHEREAS the Purchaser invited bids for certain Goods and ancillary services, viz., [*insert brief description of Goods and Services*] and has accepted a Bid by the Supplier for the supply of those Goods and Services in the sum of [*insert Contract Price in words and figures, expressed in Rs*] (hereinafter called “the Contract Price”).

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 referred to.
2. The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract Agreement. This Agreement shall prevail over all other contract documents: In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed below.
 - (a) The letter of Acceptance
 - (b) this Contract Agreement
 - (c) Letter of Bid – Technical Part
 - (d) The Supplier’s letter of Bid – Financial Part and original completed Schedules including Price Schedules
 - (e) Special Conditions of Contract
 - (f) General Conditions of Contract

- (g) Technical Requirements (including Schedule of Requirements and Technical Specifications)
 - (h) *[Add here any other document(s) listed in GCC/SCC as part of contract]*
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
 4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of *[insert the name of the Contract governing law country]* on the day, month and year indicated above.

For and on behalf of the Purchaser

Signed: *[insert signature]*
in the capacity of *[insert title or other appropriate designation]*
in the presence of *[insert identification of official witness]*

For and on behalf of the Supplier

Signed: *[insert signature of authorized representative(s) of the Supplier]*
in the capacity of *[insert title or other appropriate designation]*
in the presence of *[insert identification of official witness]*

3. Performance Security - Bank Guarantee

[Guarantor letterhead or SWIFT identifier code]

Performance Guarantee No.....*[insert guarantee reference number]*

Date.....*[insert date of issue of the guarantee]*

To: _____ *[name of Purchaser]*

_____ *[address of Purchaser]*

WHEREAS _____ *[name and address of Supplier²⁰]* (hereinafter called "the Applicant") has undertaken, in pursuance of Contract No. _____ dated _____ to execute _____ *[name of Contract and brief description of Goods and related Services]* (hereinafter called "the Contract");

AND WHEREAS it has been stipulated by you in the said Contract that the Applicant 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 Applicant such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Applicant, up to a total of _____ *[amount of guarantee²¹]* _____ *[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 Applicant before presenting us with the demand.

²⁰*In the case of a JV, insert the name of the Joint Venture*

²¹*An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract and denominated in Indian Rupees.*

We further agree that no change or addition to or other modification of the terms of the Contract or of the Goods and related Services to be supplied thereunder or of any of the Contract documents which may be made between you and the Applicant 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.) 60 days following the Completion date of the Contract including any warranty obligations²², and any demand for payment under it must be received by us at this office on or before that date.

Signature and seal of the guarantor _____

Name of Bank _____

Address _____

Date _____

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

²² Completion date as described in GC Clause 18.4

4. Advance Payment Security
Demand Guarantee
[Guarantor letterhead or SWIFT identifier code]

Advance Payment Guarantee No.....*[insert guarantee reference number]*

Date.....*[insert date of issue of the guarantee]*

To: _____ *[name of Purchaser]*
_____ *[address of Purchaser]*
_____ *[name of Contract]*

Gentlemen:

In accordance with the provisions of the Conditions of Contract, Clause 16 ("Terms of Payment") of the above-mentioned Contract, _____ *[name and address of Supplier²³]* (hereinafter called "the Applicant") shall deposit with _____ *[name of Purchaser]* a bank guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of _____ *[amount of guarantee²⁴]* _____ *[in words]*.

We, the _____ *[bank or financial institution]*, as instructed by the Applicant, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to _____ *[name of Purchaser]* on his first demand without whatsoever right of objection on our part and without his first claim to the Applicant, in the amount not exceeding _____ *[amount of guarantee]* _____ *[in words]*.

We further agree that no change or addition to or other modification of the terms of the Contract or of Goods and related Services to be supplied thereunder or of any of the Contract documents which may be made between _____ *[name of Purchaser]* and the Applicant, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

²³In the case of a JV, insert the name of the Joint Venture

²⁴An amount shall be inserted by the bank representing the amount of the Advance Payment, and denominated in Indian Rupees.

This guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until _____ *[name of Purchaser]* receives full repayment of the same amount from the Applicant. Consequently any demand for payment under this guarantee must be received by us at this office on or before that date.

Yours truly,

Signature and seal: _____

Name of Bank: _____

Address: _____

Date: _____

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.