

**NATIONAL COMPETITIVE BIDDING FOR
SUPPLY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF CORS
NETWORK IN UTTARAKHAND AND UTTAR PRADESH UNDER NHP**

(Two-Envelope Bidding Process with e-Procurement)

INVITATION FOR BIDS (IFB)

Date : 04/08/2018

Loan No. : 8725IN

IFB No. : NHP/SOI/GRB/CORS

Procurement Plan Reference No : IN-SOI-61868-GO-RFB (STEP)

1. This Invitation for Bid follows the General Procurement Notice for this Project that appeared in Development Business on 21 Sep 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 contracts for **Supply, Installation, Commissioning and Maintenance of CORS Network**.
2. Project Director, NHP, NGDC, Survey of India invites sealed bids from eligible bidders for supply of following goods and services listed below:

Line Item No.	Description of the Instrument	Unit	Quantity	Bid Security In Rs.
1.	SUPPLY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF CORS NETWORK IN UTTARAKHAND AND UTTAR PRADESH UNDER NHP	Set	01	35,00,000/-

3. 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.
4. Interested eligible Bidders may obtain further information from the Office Director,

Geodetic & Research Branch,17-E.C. Road, Dehra Dun (U.K.) at the address given above during office hours from 10:00 AM to 5:00 PM on any working day.

5. The bid document is available online and bids are to be submitted online through the e-procurement portal <https://eprocure.gov.in/eprocure/app> only. Bids submitted in any other manner will not be accepted. Bidders are required to obtain Digital signature from designated firms (available on e-proc. Portal and then register with the Government of India e-procurement platform and submit bids by using their user ID and Digital Signature.

- (a) Date of pre-bid meeting :20/08/2018 11.30 A.M.
- (b) Last date and time for receipt of bids :18/09/2018 11.00 A.M.
- (c) Time and date of opening of bids- Technical :19/09/2018 11.00 A.M.
- (d) Place of opening of bids :Director,
Geodetic & Research Branch,
17-E.C. Road,
Dehra Dun (U.K.) -248001,
Tele: +91-135-2654528.
Fax:+91-135-2656759
- (e) Address for communication :Director,
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17-E.C. Road,
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Tele: +91-135-2654528
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Email:grb.soi@gov.in

6. For submission of the bids, the bidder is required to have Digital Signature Certificate (DSC) from one of the authorized Certifying Authorities, authorised by Government of India for issuing DSC. Aspiring bidders who have not obtained the user ID and password for participating in e-procurement in this Project, may obtain the same from the website: <https://eprocure.gov.in/eprocure/app>.

7. Bid security of the amount specified in the bidding document, drawn in favour of **Sr. Accounts Officer, C.P. & A.O. Survey of India, Dehradun** must be submitted as per the procedure described in paragraph 9 below. The 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. Bids must be submitted online on <https://eprocure.gov.in/eprocure/app> (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.

8. The bidders are required to submit (a) original bid security in approved form; and (b) original affidavit regarding correctness of information furnished with bid document with Director, Geodetic & Research Branch, Survey of India, 17-E.C.Road, GBO Compound, DEHRA DUN- 248001, INDIA before the opening of the technical part of the Bid given above, either by registered post/speed post/courier or by hand, failing which the bids will be declared non-responsive and will not be opened.
9. A pre-bid meeting will be held on **20/08/2018 at 11:30 hrs.** at the O/o The Director, G&RB, Survey of India, GBO Compound, 17 E.C. Road, Dehradun-248001 (Uttarakhand), INDIA to clarify the issues and to answer queries on any matter that may be raised at that stage as stated in ITB Clause 7.1 of ‘Instructions to Bidders’ of the bidding document.
10. 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.

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SURVEY OF INDIA
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HATHIBARKALA ESTATE, POST BOX -37
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E-mail: grb.soi@gov.in

NATIONAL COMPETITIVE BIDDING FOR
SUPPLY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF
CONTINUOUSLY OPERATING REFERENCE SYSTEM (CORS) NETWORK IN
THE STATE OF UTTARAKHAND AND UTTAR PRADESH UNDER
NATIONAL HYDROLOGY PROJECT

BID REFERENCE	:	NHP/SOI/GRB/CORS
PROCUREMENT PLAN REFERENCE NO	:	IN-SOI-61868-GO-RFB (STEP)
PERIOD OF SALE OF BIDDING DOCUMENT	:	FROM 04/08/2018 TO 17/09/2018
LAST DATE AND TIME FOR RECEIPT OF BIDS	:	DATE 18/09/2018 TIME 11.00A.M.
* TIME AND DATE OF OPENING OF BIDS – Technical Part	:	DATE 19/09/2018 TIME 11.00 A.M.
PLACE OF OPENING OF BIDS	:	Office of Director, G&RB, 17 E.C. Road, Dehradun Uttarakhand 248001
OFFICER INVITING BIDS	:	Project Director, NHP, NGDC, Survey of India

SECTION I: INVITATION FOR BIDS (IFB)

**NATIONAL COMPETITIVE BIDDING FOR
SUPPLY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF CORS
NETWORK IN UTTARAKHAND AND UTTAR PRADESH UNDER NHP**

(Two-Envelope Bidding Process with e-Procurement)

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Date : 04/08/2018

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1. This Invitation for Bid follows the General Procurement Notice for this Project that appeared in Development Business on 21 Sep 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 contracts for **Supply, Installation, Commissioning and Maintenance of CORS Network**.
2. Project Director, NHP, NGDC, Survey of India invites sealed bids from eligible bidders for supply of following goods and services listed below:

Line Item No.	Description of the Instrument	Unit	Quantity	Bid Security In Rs.
1.	SUPPLY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF CORS NETWORK IN UTTARAKHAND AND UTTAR PRADESH UNDER NHP	Set	01	35,00,000/-

3. 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.
4. Interested eligible Bidders may obtain further information from the Office Director,

Geodetic & Research Branch,17-E.C. Road, Dehra Dun (U.K.) at the address given above during office hours from 10:00 AM to 5:00 PM on any working day.

5. The bid document is available online and bids are to be submitted online through the e-procurement portal <https://eprocure.gov.in/eprocure/app> only. Bids submitted in any other manner will not be accepted. Bidders are required to obtain Digital signature from designated firms (available on e-proc. Portal and then register with the Government of India e-procurement platform and submit bids by using their user ID and Digital Signature.

- (a) Date of pre-bid meeting :20/08/2018 11.30 A.M.
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6. For submission of the bids, the bidder is required to have Digital Signature Certificate (DSC) from one of the authorized Certifying Authorities, authorised by Government of India for issuing DSC. Aspiring bidders who have not obtained the user ID and password for participating in e-procurement in this Project, may obtain the same from the website: <https://eprocure.gov.in/eprocure/app>.

7. Bid security of the amount specified in the bidding document, drawn in favour of **Sr. Accounts Officer, C.P. & A.O. Survey of India, Dehradun** must be submitted as per the procedure described in paragraph 9 below. The 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. Bids must be submitted online on <https://eprocure.gov.in/eprocure/app> (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

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8. The bidders are required to submit (a) original bid security in approved form; and (b) original affidavit regarding correctness of information furnished with bid document with Director, Geodetic & Research Branch, Survey of India, 17-E.C.Road, GBO Compound, DEHRA DUN- 248001, INDIA before the opening of the technical part of the Bid given above, either by registered post/speed post/courier or by hand, failing which the bids will be declared non-responsive and will not be opened.
9. A pre-bid meeting will be held on **20/08/2018 at 11:30 hrs.** at the O/o The Director, G&RB, Survey of India, GBO Compound, 17 E.C. Road, Dehradun-248001 (Uttarakhand), INDIA to clarify the issues and to answer queries on any matter that may be raised at that stage as stated in ITB Clause 7.1 of ‘Instructions to Bidders’ of the bidding document.
10. 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.

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TABLE OF CONTENTS

PART 1 - INSTRUCTIONS TO BIDDERS	7
SECTION I - INSTRUCTIONS TO BIDDERS [ITB]	9
SECTION II - BIDDING DATA SHEET	33
SECTION III. EVALUATION AND QUALIFICATION CRITERIA	40
SECTION IV. BIDDING FORMS	44
QUALIFICATION INFORMATION	50
BID SECURITY (BANK GUARANTEE)	57
SECTION V. – ELIGIBLE COUNTRIES	62
SECTION VI. BANK POLICY - CORRUPT AND FRAUDULENT PRACTICES	63
PART 2 - SUPPLY REQUIREMENTS	65
SECTION VII – SCHEDULE OF REQUIREMENTS	66
PART 3 – CONTRACT	98
SECTION VIII – GENERAL CONDITIONS OF CONTRACT	99
SECTION IX. SPECIAL CONDITIONS OF CONTRACT	120
SECTION X – CONTRACT FORMS	126

PART 1 - INSTRUCTIONS TO BIDDERS

SECTION I - INSTRUCTIONS TO BIDDERS [ITB]

Table of Clauses

A. GENERAL	9
1. SCOPE OF BID.....	9
2. SOURCE OF FUNDS	9
3. CORRUPT & FRAUDULENT PRACTICES.....	10
4. ELIGIBLE BIDDERS.....	10
5. ELIGIBLE GOODS AND RELATED SERVICES.....	12
B. CONTENTS OF BIDDING DOCUMENT	12
6. SECTIONS OF BIDDING DOCUMENTS	12
7. CLARIFICATION OF BIDDING DOCUMENTS	13
8. AMENDMENT OF BIDDING DOCUMENTS.....	14
C. PREPARATION OF BIDS	14
9. COST OF BIDDING	14
10. LANGUAGE OF BID.....	14
11. DOCUMENTS COMPRISING THE BID.....	14
12. PROCESS OF BID SUBMISSION	15
13. ALTERNATIVE BIDS	16
14. BID PRICES AND DISCOUNTS.....	16
15. CURRENCIES OF BID & PAYMENT	18
16. DOCUMENTS ESTABLISHING THE ELIGIBILITY AND CONFORMITY OF THE GOODS AND RELATED SERVICES.....	18
17. DOCUMENTS ESTABLISHING THE ELIGIBILITY & QUALIFICATIONS OF THE BIDDER	19
18. PERIOD OF VALIDITY OF BIDS.....	20
19. BID SECURITY	20
20. FORMAT AND SIGNING OF BID	22
D. ONLINE SUBMISSION OF BIDS	22
21. PREPARATION OF BIDS.....	22
22. DEADLINE FOR SUBMISSION OF BIDS	23
23. LATE BIDS	23
24. WITHDRAWAL, SUBSTITUTION, AND MODIFICATION OF BIDS.....	23
25. PUBLIC OPENING OF TECHNICAL PARTS OF BIDS.....	24
F. EVALUATION OF BIDS – GENERAL PROVISIONS	25
26. CONFIDENTIALITY	25
27. CLARIFICATION OF BIDS	25
28. DEVIATIONS, RESERVATIONS, OMISSIONS	25

29	NONCONFORMITIES, ERRORS AND OMISSIONS	25
30	EVALUATION OF TECHNICAL PARTS	26
31	DETERMINATION OF RESPONSIVENESS.....	26
32	QUALIFICATION OF THE BIDDERS.....	27
33	PUBLIC OPENING OF FINANCIAL PARTS	28
34	EVALUATION OF FINANCIAL PARTS.....	29
35	CORRECTION OF ARITHMETICAL ERRORS	30
36	CONVERSION TO SINGLE CURRENCY	30
37	MARGIN OF DOMESTIC PREFERENCE	30
38	COMPARISON OF FINANCIAL PARTS	30
39	PURCHASER’S RIGHT TO ACCEPT ANY BID, AND TO REJECT ANY OR ALL BIDS	30
J. AWARD OF CONTRACT.....		30
40	AWARD CRITERIA	30
41	PURCHASER’S RIGHT TO VARY QUANTITIES AT TIME OF AWARD	30
42	NOTIFICATION OF AWARD	31
PUBLICATION OF AWARD.....		31
RECOURSE TO UNSUCCESSFUL BIDDERS.....		31
43	SIGNING OF CONTRACT	31
44	PERFORMANCE SECURITY	31

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.

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.
- 5.3 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) written confirmation authorizing the signatory of the Bid to commit the Bidder as per ITB Clause 11.2(d); (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. 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 all duties, and GST and other taxes already paid or payable on the components and raw material used in the manufacture or assembly of the Goods;

(ii) any GST and other taxes which will be 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.

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 fifty-six (56) 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 in to consideration the applicable correction from those 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 45 days 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.

F. 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 Nonconformitie** 29.1 Provided that a Bid is substantially responsive, the Purchaser

s, Errors and Omissions

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

- 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 a National website(GOI web site-<http://tenders.gov.in> or GoI Central Public Procurement Portal <https://eprocure.gov.in/cppp/>) 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 Project Director, NHP NGDC, Survey of India Post Box: 200, Block No. 6, Hathibarkala Estate, Dehradun (Uttarakhand), India 248001. Telephone: +91-135-2747623, +91-135-2745566 Facsimile number: +91-135-2747623 Email: pd.nhp.soi@gov.in
ITB 1.1	The name and identification number of the NCB is: NHP/SOI/GRB/CORS The number, identification and names of the contract comprising this NCB is: Supply, installation, commissioning and maintenance of CORS Network in the states of Uttarakhand and Uttar Pradesh.
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	The Borrower is Government of India Loan or Financing Agreement Amount: US \$ 175 Million
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	Electronic –Procurement System The Purchaser shall use the following electronic-procurement system to manage this Bidding process: CPP Portal

	https://eprocure.gov.in/eprocure/app
ITB 7.1 (a) Additional clause.	<p>A pre-bid meeting will be held: Yes</p> <p>Date of pre-bid meeting:20-08-2018 Time:</p> <p>O/o The Director, G&RB, Survey of India, GBO Compound, 17 E.C. Road, Dehradun-248001 (Uttarakhand), INDIA</p>
ITB 8.1	The addendum will appear on the e-procurement system under CPP Portal and Survey of India website and email notification is also automatically sent to those bidders who have started working on this tender.
	C. Preparation of Bids
ITB 11.2(j)	<p>The Bidder shall submit the following additional documents in its bid – technical part:</p> <ol style="list-style-type: none"> 1. Certification of incorporation of the bidder and manufacturer 2. As e- procurement system is being used, there is no hard copy submission of bid. Only the hard copy of written confirmation authorizing the signatory of the Bid to commit the Bidder as per ITB Clause 11.2(d) i.e. the power of attorney, EMD and original affidavit regarding correctness of information furnished with bid document, should be submitted. 3. 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. 4. Technical schedules of goods as required by technical specifications. 5. Descriptive Documents, drawings, notes and references of operating and assembly of mechanical parts if applicable. 6. A detailed description of the Goods essential technical and performance characteristics: 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. 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

	<p>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. Non-manufacturer bidders will submit the manufacturer’s authorization Form as per Performa in Section IV.</p> <p>11. The following details shall also be provided by Indian Bidders:</p> <p>a. Name, address, PAN and ward/circle where they are being assessed of the Directors of the Bidding Company.</p> <p>b. Company’s PAN and Income Tax clearance certificate and ward/circle where it is being assessed,</p> <p>c. Registration details of the company under GIST, local and Central Sales Tax, and other laws as may be applicable.</p> <p>12. The bidders from outside India shall provide the corresponding details of Income Tax registration, Social Security Number, details regarding Registration under goods & services tax (as may be applicable) etc.</p> <p>13. 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.</p> <p>14. All documents required in section 3: Evaluation & Qualification Criteria</p> <p>15. Detailed power calculation sheet for reference Station including power backup plan is to be submitted with the Technical bid</p>
<p>ITB 11.3(d)</p>	<p>The Bidder shall submit the following additional documents in its bid – financial part:</p> <p><i>No additional document required.</i></p>
<p>ITB 12.1 and 12.2</p>	<p>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. Price schedule is available in xls file along with bid document. Bidder need to download it, fill up necessary cells and after validation upload filled xls file in BOQ folder of financial bid after signing it digitally. Please note that no documents related to price should be uploaded in Technical Bid. The rest of the forms shall be downloaded 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.</p>

ITB 12.3	<p>For submission of original documents, the Purchaser's address is:</p> <p>Attention: Director Street Address: Geodetic & Research Branch, Survey of India, 17-E.C.Road, GBO</p> <p>City: DEHRADUN PIN/Postal Code: 248001 Country: INDIA</p>
ITB 13.1	Alternative Bids <i>shall not be</i> considered.
ITB 14.5	The prices quoted by the Bidder <i>shall not</i> be subject to adjustment during the performance of the Contract.
ITB 14.7	The Incoterms edition is Incoterms 2010.
ITB 14.8 (a) (iii)	<p>“Final destination (Project Site)”:</p> <ol style="list-style-type: none"> 1) For equipments and software pertaining to Control Center and Rovers: The Director, G&RB, Survey of India, GBO Compound, 17 E.C. Road, Dehradun-248001 (Uttarakhand), INDIA 2) 1) For equipments pertaining to Receiver Stations: As per list attached in Sub-section 7 of Section VII – SCHEDULE OF REQUIREMENTS
ITB 14.9	As per latest instructions of Government of India.
ITB 16.4	Period of time the Goods are expected to be functioning (for the purpose of spare parts): 7 Years
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 <i>required</i> 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 90 days.

ITB 18.3(a)	The factor will be 1.0007692 per week
ITB 19.1	Bid shall include a Bid Security (issued by bank) included in Section IV Bidding Forms.
ITB 19.3	The amount of Bid Security shall be : INR 35,00,000/-
ITB 19.3 (a)	<p><u>Other type of acceptable securities are:</u></p> <p>Bank Guarantee in required as per proforma in Section IV.</p> <p>or</p> <p>Demand Draft drawn in favour of Sr. Accounts Officer, C.P. & A.O. Survey of India, Dehradun payable at Dehradun</p> <p>from a Nationalized / Scheduled Bank in India</p>
ITB 19.9	Deleted
ITB 20.1	Bids, both Technical and Financial Parts, shall be submitted online on the e-procurement system specified in BDS 7.1
ITB 20.2	The written confirmation of authorization to sign on behalf of the Bidder shall consist of: Power of Attorney.
	D. Online Submission and Opening of Bids
ITB 21.1	Class of DSC required is: Class II/ III
ITB 21.2 (c)	<p>(a) The inner and outer envelopes shall bear the following additional identification marks: <i>Not applicable because e-tendering system will take place</i></p> <p>However, the Envelope for submitting Document as per ITB 12.3 shall bear the following: ORIGINAL DOCUMENTS AS PER CLAUSE 12.3 for Supply, installation, commissioning and maintenance of CORS Network in the states of Uttarakhand and Uttar Pradesh. NCB No. is NHP/GRB/CORS</p>

ITB 22.1	The deadline for uploading of bids is: Date: <i>18September, 2018</i> Time: <i>11:00 a.m.</i>
ITB 24.1	Re-submission of the bid is not allowed, if withdrawn.
E. Public Opening of Technical Parts of Bids	
ITB 25.1	The online opening of the Technical Parts of Bids shall take place at: Street Address: Geodetic & Research Branch, Survey of India, 17-E.C.Road, GBO Compound; City: DEHRA DUN Country: INDIA Date: <i>19September, 2018</i> Time: <i>11:00 a.m.</i>
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. The online opening of the Financial Parts of bids (for technically qualified bidders) shall take place at: Street Address: Geodetic & Research Branch, Survey of India, 17-E.C.Road, GBO Compound City: DEHRA DUN Country: INDIA

	Shall be notified after completion of the evaluation of the Technical Parts of the Bids, and no objection issued by the Bank (if applicable).
	I. Evaluation and Comparison of Bids
ITB 34.1(a)	<i>Evaluation will be done for all items together.</i> <i>Bids will not be evaluated for each item separately and single Contract will be concluded with the successful bidder.</i>
ITB 34.3	Bidders <i>shall not</i> be allowed to quote separate prices for one or more lots.
ITB 34.5	Deleted
	J. Award of Contract
ITB 41.1	The maximum percentage by which quantities may be increased is: <i>15%</i> The maximum percentage by which quantities may be decreased is: <i>15%</i>

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.

Contents

1. Evaluation Criteria (ITB 34.5)
2. Multiple Contracts (ITB 34.3)
3. Qualification Requirements (ITB 32.1)

1. Evaluation Criteria (ITB 34.5)

The evaluation will take into account cost of equipment (EXW) including Taxes etc, cost towards inland transportation of goods to final destination {as indicated in **ITB 14.8 (a) (iii)**} and cost of related services including site preparation, installation, commissioning, comprehensive warranty (1 year Standard + 4 years extended warranty) and onsite comprehensive operational & maintenance support for 5 years of receiver station, control center and Rovers. Cost of comprehensive insurance of equipments of receiver station shall also be taken into account while evaluation of bid.

2. Multiple Contracts (ITB 34.3)

Not Applicable.

3. 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) Financial Capability

(i) If the bidder is a Manufacturer ,

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

- a. The Minimum required annual turnover in any one of the last three (3) Financial Years i.e. 2015-16 to 2017-18 shall be INR 20.0 (Twenty) crore or an equivalent amount in other currency. The bidder should also submit the concerned documents in support of the above to the satisfaction of the purchaser.
- b. Should possess GST Registration.
- c. Capacity to have a cash flow: The bidder must provide a letter from a reputed Nationalized / Scheduled Bank stating the availability of liquid assets and/or credit facilities exclusively for the contract only, of not less than INR 10.0 (Ten) Crore.

(ii) If the bidder is not a 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), (b), (c) of para (i) and the Bidder shall furnish documentary evidence that it meets the following financial requirement(s):

- a. The Minimum required annual turnover in any of the last three (3) Financial Years i.e. 2015-16 to 2017-18 be INR 10.0 (Ten) crore or an equivalent amount in other currency. The bidder should also submit the concerned documents in support of the above to the satisfaction of the purchaser.

- b. Should possess GST Registration.
- c. Capacity to have a cash flow: The bidder must provide a letter from a reputed Nationalized / Scheduled Bank stating the availability of liquid assets and/or credit facilities exclusively for the contract only, of not less than INR 7.0 (Seven) Crore.

(b) Experience and Technical Capacity

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

- (i) If the bidder is a Manufacturer, he must have manufactured, tested and supplied at least 60 CORS receivers (GNSS receivers with features as detailed in Technical Specifications for GNSS-Dual Frequency receivers in 'Schedule of Requirements') and supplied, installed & commissioned CORS network similar to the type specified in the 'Schedule of Requirements' consisting of at least 20 receiver stations, with all subcomponents (i.e. control center, receiver station, communication network and necessary hardware and software) in any one of the last 3 Financial Years i.e. 2015-16 to 2017-18. CORS Network installed should be in satisfactory operation for 6 Months as on date of bid opening. Further, bidder should be in continuous business of manufacturing products similar to that specified in the schedule of requirements during the last five years prior to bid opening.
- (ii) If the bidder is not a Manufacturer, he must have successfully supplied, at least 60 CORS receivers (GNSS receivers with features as detailed in Technical Specifications for GNSS-Dual Frequency receivers in 'Schedule of Requirements') and supplied, installed and commissioned CORS network similar to the type specified in the 'Schedule of Requirements' consisting of at least 20 receiver station, with all subcomponents (i.e. control center, receiver station, communication network and necessary hardware and software) in any one of the last 3 Financial Years i.e. 2015-16 to 2017-18, which must be in satisfactory operation for at least 6 months on the date of bid opening. However, the bid shall include the information about the Manufacturer, as mentioned above at (i), whose goods have been offered.
- (iii) The list of supplied & installed equipment shall include:
 - Name and address of Purchaser with contact details as email address/ Phone No.
 - Contract No. and Date.
 - Equipment/items ordered/supplied & installed with their respective quantities.
 - Scheduled completion date and actual completion date.
 - Details of Complaint, if any, received from the purchaser about the performance of the Equipment/items.
- (iv) The bidder should provide profile of their company including its infrastructure, technical manpower and their expertise.
- (v) The bidder may be an Indian or Foreign company but must have office and firm arrangement in India to supply, install, and commission and

provide support as well as comprehensive on-site maintenance of the network.

- (vi) The bidder should submit the details of agreements entered into with various manufacturers/partners for supplying the equipment and providing services and their experience to meet the qualification & experience criterion for the turn-key solution.
 - (vii) In case of subcontracting work, the bidder shall be solely responsible for the deliverables from these subcontractors and under no circumstances shall transfer the sub contractor's liabilities to the Purchaser. The subcontractor should have requisite qualification and experience to execute the job to the satisfaction of the Purchaser. The bidder is to give the name of the subcontractor / arrangement for the job in the bid in such cases.
 - (viii) The equipment supplied should be from well-known manufacturer & of recent model with proven reliability in the field for at least one-year of operation. The equipment supplied must have minimum life period of 7 years. The bidder is to give undertaking that availability of spares & services will be ensured in case the equipment is obsolete in between the period.
- (c) The Bidder shall furnish documentary evidence to demonstrate that the Goods it offers meet the requirements of a CORS network, component wise like, GNSS Receivers, Software's, Communication system, Power supply, Safety etc.
- (d) The Bidder must furnish details of supplies made by him in the last three years in proforma attached in Section IV.

SECTION IV. BIDDING FORMS

Table of Forms

1A.	Letter of Bid– Technical Part.....	45
1B.	Letter of Bid- Financial Part.....	47
2.	BIDDER Information Form.....	49
3.	Qualification Information	50
4.	PRICE Schedule For Supply as per Schedule of Requirements	53
5.	PRICE and Completion Schedule - Related Services.....	55
6.	Bid Security (Bank Guarantee).....	57
7.	Manufacturer’s Authorisation.....	59
8.	Declaration for Claiming Excise Duty.....	60
9.	Proforma for Performance Statement	61

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

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

3. Qualification Information

1. Individual Bidders

- 1.1 Constitution or legal status of Bidder: *[attach copy]*
 Place of registration: *[insert]*
 Principal place of business: *[insert]*
 Power of attorney of signatory of Bid: *[attach]*
- 1.2 Total annual volume of Services performed in five years, in the internationally traded currency specified in the BDS: *[insert]*
- 1.3 Services performed as prime Service Provider on the provision of Services of a similar nature and volume over the last five years. The values should be indicated in the same currency used for Item 1.2 above. Also list details of work under way or committed, including expected completion date.

Project name and country	Name of employer and contact person	Type of Services provided and year of completion	Value of contract
(a)			
(b)			

- 1.4 Major items of Service Provider's Equipment proposed for carrying out the Services. List all information requested below. Refer also to ITB Sub-Clause 5.4(c).

Item of equipment	Description, make, and age (years)	Condition (new, good, poor) and number available	Owned, leased (from whom?), or to be purchased (from whom?)
(a)			
(b)			

- 1.5 Qualifications and experience of key personnel proposed for administration and execution of the Contract. Attach biographical data. Refer also to ITB Sub-Clause 5.4(e) and GCC Clause 9.1.

Position	Name	Years of experience (general)	Years of experience in proposed position
(a)			
(b)			

1.6 Proposed subcontracts and firms involved. Refer to GCC Clause 7.

Sections of the Services	Value of subcontract	Subcontractor (name and address)	Experience in providing similar Services
(a)			
(b)			

1.7 Financial reports for the last five years: balance sheets, profit and loss statements, auditors' reports, etc. List below and attach copies.

1.8 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. List below and attach copies of support documents. We certify/confirm that we comply with eligibility requirements as per ITB Clause 4.

1.9 Name, address, and telephone, telex, and facsimile numbers of banks that may provide references if contacted by the Employer.

1.10 Information regarding any litigation, current or within the last five years, in which the Bidder is or has been involved.

Other party(ies)	Cause of dispute	Details of litigation award	Amount involved
(a)			
(b)			

1.11 Statement of compliance with the requirements of ITB Sub-Clause 4.2.

1.12 Proposed Program (service work method and schedule). Descriptions, drawings, and charts, as necessary, to comply with the requirements of the bidding documents.

2. Additional Requirements

2.1 Bidders should provide any additional information required in the BDS and to fulfill the requirements of ITB Sub-Clause 5.1, if applicable.

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.]*

Supply, installation, commissioning and maintenance of CORS network in the state of Uttarakhand and Uttar Pradesh under NHP.

4. PRICE SCHEDULE FOR SUPPLY AS PER SCHEDULE OF REQUIREMENTS

									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 excise duty if any]	Total EXW price per line item [including Excise Duty if any] (Col. 4×5)	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))	GST and other taxes payable per item if Contract is awarded (in accordance with ITB 14.8(a)(ii))	Total Price per line item (Col. 7+8+9)
1	Equipments pertaining to Control Centre including 5 years comprehensive warranty								
	1.a.	GNSS Set as detailed in Sl. 1 of Sub-Section 3 Technical Specification of Section VII Schedule of Requirements		Within 60 days from date of signing contract	1 Set				
	1.b.	All other sub-component as detailed in Sl. 2 of Sub-Section 3 Technical Specification of Section VII Schedule of Requirements		Within 60 days from date of signing contract	1 Set				
	1.c.	Software Solution With all sub-component as detailed in Sl. 5 of Sub-Section 3 Technical Specification of Section VII Schedule of Requirements		Within 60 days from date of signing contract	1 Nos				
2	Equipments pertaining to Receiver Station including 5 years comprehensive warranty								
	2.a.	GNSS Set as detailed in Sl. 1 of Sub-Section 3 Technical Specification of Section VII Schedule of Requirements		Within 150 days from date of signing contract	72 Set				

	2.b.	All other sub-component as detailed in Sl. 3 of Sub-Section 3 Technical Specification of Section VII Schedule of Requirements		Within 150 days from date of signing contract	72 Set					
3		Rovers for Field Survey as detailed in Sl. 1 of Sub-Section 3 Technical Specification of Section VII Schedule of Requirements including 5 years comprehensive warranty		Within 60 days from date of signing contract	20 Set					
4		Equipments pertaining to Communication Network With all sub-component as detailed in Sl. 4 of Sub-Section 3 Technical Specification of Section VII Schedule of Requirements including 5 years comprehensive warranty		Within 60 days from date of signing contract	1 Set					
									Total Price	

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

5. PRICE AND COMPLETION SCHEDULE - RELATED SERVICES

Date: _____ NCB No: _____ Alternative No: _____ Page N° _____ of _____							
1	2	3	4	5	6	7	8
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 and other taxes payable per item if Contract is awarded	Total Price per Service (Col. 5*6+7)
1	At Control Centre, Site preparation including Civil and Electric works, establishment of communication network, and installation and commissioning of All other equipments pertaining to Control Centre as detailed in in Sl. 1,2 3,4 and 5 of Sub-Section 3 Technical Specification of Section VII “Schedule of Requirements”, and installation of software solution and testing of whole system		At Dehradun 150 days from date of signing contract	1 control station			
2	At each receiver station, Site preparation including Civil and Electric works, establishment of communication network, installation and commissioning of All other equipments pertaining to receiver station and necessary electricity and communication line (ADSL/Broadband as well as GSM/CDMA) connection, as detailed in in Sl. 1,2 3,4 and 5 of Sub-Section 3 Technical Specification of Section VII “Schedule of Requirements”, and testing		As per list attached in Sub-section 7 of Section VII “Schedule of Requirements” 150 days from date of signing contract	72 receiver station			

3	Training (including Class room as well as Onsite) of all types (as required) to Survey of India personnel in operational support , Running and Maintenance (Preventive and Emergency) of all components of the CORS Network so as to enable SOI to under-take the transfer on completion of the contract		At Dehradun (U.K.) and for component of receiver station at Roorkee (U.K.) Within 30 Days from date of commissioning of CORS Network	Training of 20 person on each sub component of CORS Network.			
4	Furnishing of a detailed operations and maintenance manual with relevant SOPs for all components of Network CORS system		At Dehradun (U.K.) Within 30 Days from date of installation	4 sets			
5	Comprehensive on-site full operational and maintenance support for all components of the CORS system for a period of 5 years, including payment of monthly electricity and communication line (ADSL/Broadband as well as GSM/CDMA) bills		At Control Station as well as at Each receiver Stations, Starting from date of commissioning	for a period of 5 years Starting from date of commissioning			
6	Comprehensive Insurance of Equipments installed at all receiver stations against theft, fire, vandalism as per GCC clause 14.1 from the date of installation till completion of contractual period		At Each receiver Stations, Starting from date of installation	Starting from date of installation till completion of contractual period			
					Total Bid Price		

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

6. Bid Security (Bank Guarantee)

[The Bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.]

Beneficiary: _____

Date: _____

BID GUARANTEE No.: _____

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:

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.*

- (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.

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.

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

7. 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.

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.

8. DECLARATION FOR CLAIMING EXCISE DUTY EXEMPTION

(Name of the Project)

Bid No.
Description of item to be supplied

(Information for issue of certificate for claiming exemption of Excise Duty (ED) in terms of Central excise notification No. 108/95)

(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 Central Excise notification no 108/95 read along with all subsequent amendments including the amendment dated 01-03-2008.

(i) Ex-factory price per unit on which ED is payable: *Rs. _____

(ii) No of Units to be supplied: _____

(iii) Total cost on which ED 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) _____

** 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.*

9. PROFORMA 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 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>
				As per contract	Actual		
1	2	3	4	5	6	7	8

Signature and seal of the Bidder _____

SECTION V. – ELIGIBLE COUNTRIES

PublicInformationCentre

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: None

Under ITB 4.7(b) and 5.1: 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.⁵ 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;⁶;
 - 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;⁷
 - (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;⁸
 - (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;⁹
 - (v) "obstructive practice" is:

⁵ In this context, any action to influence the procurement process or contract execution for undue advantage is improper.

⁶ 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.

⁷ 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.

⁸ 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.

⁹ For the purpose of this sub-paragraph, “*party*” refers to a participant in the procurement process or contract execution.

- (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,¹⁰ 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 nominated¹¹;
- (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.”

¹⁰ 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.

¹¹ 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.

PART 2 - SUPPLY REQUIREMENTS

SECTION VII – SCHEDULE OF REQUIREMENTS

1. LIST OF GOODS AND DELIVERY SCHEDULE.....67
2. LIST OF RELATED SERVICES [ITB CLAUSE 14.8(B)] AND COMPLETION SCHEDULE70
3. TECHNICAL SPECIFICATIONS72
4. DRAWINGS87
5. INSPECTIONS AND TESTS89
6. PROFORMA OF CERTIFICATE FOR ISSUE BY THE PURCHASER
AFTERSUCCESSFUL INSTALLATION AND STARTUP OF THE SUPPLIED GOODS91
7. TENTATIVE LOCATIONS OF THE RECEIVER STATIONS.....93

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			Bid Security in Indian Rupees
						Earliest Delivery Date	Latest 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 of the Contract]</i>	<i>[insert the number of days following the date of effectiveness of the Contract]</i>	<i>[insert the number of days following the date of effectiveness of the Contract]</i>	
1	Equipments pertaining to Control Centre								
	1.a.	GNSS Set as detailed in Sl. 1 of Sub-Section 3 Technical Specification of Section VII Schedule of Requirements	01	Nos.	At Dehradun	60Days	60 Days		35.0 Lakhs
	1.b.	All other sub-component as detailed in Sl. 2 of Sub-Section 3 Technical Specification of Section VII Schedule of Requirements	01	Nos.	At Dehradun	60Days	60 Days		

	1.c.	Software Solution With all sub-component as detailed in Sl. 5 of Sub-Section 3 Technical Specification of Section VII Schedule of Requirements	01	Nos.	At Dehradun	150Days	150 Days		
2	Equipments pertaining to Receiver Station								
	2.a.	GNSS Set as detailed in Sl. 1 of Sub-Section 3 Technical Specification of Section VII Schedule of Requirements	72	Nos	As per list attached in Sub-section 7 of Section VII "Schedule of Requirements"	150Days	150 Days		
	2.b.	All other sub-component as detailed in Sl. 3 of Sub-Section 3 Technical Specification of Section VII Schedule of Requirements	72	Nos	As per list attached in Sub-section 7 of Section VII "Schedule of Requirements"	150Days	150 Days		
3	Rovers for Field Survey as detailed in Sl. 1 of Sub-Section 3 Technical Specification of Section VII Schedule of Requirements		20	Nos.	At Dehradun	60 Days	60 Days		
4	Equipments pertaining to Communication Network With all sub-component as detailed in Sl. 4 of Sub-Section 3 Technical Specification of Section VII Schedule of Requirements		01	Nos.	At Dehradun	150 Days	150 Days		

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

1. The Bidder should furnish a detailed operations and maintenance manual for each appropriate unit of the supplied goods and equipment
2. The Supplier is responsible for performance on-site assembly and start-up of the supplied instrument units.
3. The Supplier is responsible for all unpacking, assemblies, wiring, installations, cabling between instrument units, connecting it to the computer (wherever applicable) and connecting to power supplies. The Supplier will test all operations of the instruments, measurements and data production, storage & output and accomplish all adjustments necessary for successful and continuous operation of the instrument at all installation sites.
4. Warranty for 5 years

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] [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>
1	At Control Centre, Site preparation including Civil and Electric works, establishment of communication network, and installation and commissioning of All other equipments pertaining to Control Centre as detailed in in Sl. 1,2 3,4 and 5 of Sub-Section 3 Technical Specification of Section VII “Schedule of Requirements”, and installation of software solution and testing of whole system	1	Nos	at Dehradun	150 days from date of signing contract
2	At each receiver station, Site preparation including Civil and Electric works, establishment of communication network, installation and commissioning of All other equipments pertaining to receiver station, and Electricity and communication line (ADSL/Broadband as well as GSM/CDMA) connection, as detailed in in Sl. 1,2 3,4 and 5 of Sub-Section 3 Technical Specification of Section VII “Schedule of Requirements”, and testing	72	Nos	As per list attached in Sub-section 7 of Section VII “Schedule of Requirements”	150 days from date of signing contract
3	Training (including Class room as well as Onsite) of all types (as required) to Survey of India personnel in operational support , Running and Maintenance (Preventive and Emergency) of all components of the CORS Network so as to enable SOI to undertake the transfer on completion of the contract	Training of 20 person on each sub component of CORS Network.	Nos	at Dehradun (U.K.) and for component of receiver station at Roorkee (U.K.)	Within 30 Days from date of commissioning

4	Furnishing of a detailed operations and maintenance manual with relevant SOPs for all components of Network CORS system	4	Set	at Dehradun (U.K.)	Within 30 Days from date of commissioning
5	Comprehensive on-site full operational and maintenance support for all components of the network CORS system for a period of 5 years including payment of monthly electricity and communication line (ADSL/Broadband as well as GSM/CDMA) bills	1 control Station and 72 receiver station for period of 5 years	Nos	At Control Station as well as at Each receiver Stations,	Starting from date of commissioning
6	Comprehensive Insurance of Equipments installed at all receiver stations against theft, fire, vandalism from the date of installation till completion of contractual period as per GCC clause 14.1	72 receiver station	Nos	At Each receiver Stations,	Starting from date of installation till completion of contractual period

3. TECHNICAL SPECIFICATIONS

1. GNSS-Dual Frequency

The Bidder to prepare a comparison sheet as below: -

Sl. No.	Name of the Item	Required Specification	Bidder's Offered Specifications / Compliance /Deviation Statement (to be filled up by BIDDER)
1	GNSS receiver	The offered receiver shall have 400+ physical channels	
		Multiple frequency and supporting the following simultaneous signal tracking: <ul style="list-style-type: none"> - GPS: L1 C/A; L2E/L2P; L2C; L5 - GLONASS: L1 C/A; L1P; L2 C/A; L2P; L3 CDMA - GALILEO: L1 CBOC; E5A; E5B; E5AltBoc - BEIDOU: B1; B2; B3 - SBAS: L1 C/A (EGNOS/MSAS/WAAS); L5 (WAAS) - L-Band - Update for NavIC (IRNSS) signals tracking shall be provided as and when available 	
		Receiver must be capable of tracking all satellites in view, even if unhealthy, to an elevation angle of 0°.	
		The receiver shall support real time kinematic positioning using industry standard formats	
		The receiver shall support onboard worldwide, real-time, absolute precise point positioning (PPP), via both Internet Protocol (IP) and L-Band satellite delivery.	
		The offered receiver shall offer a minimum of two power inputs supporting both AC and DC operation.	
		The offered receiver shall contain an internal battery (Li-Ion)and with battery charger. The internal battery shall be capable of operating the unit standalone for up to 12 hours. The offered receiver shall contain capability to Automatic swapping between power sources without affecting data recorded.	
		Internal battery must be capable of operating as an internal battery backup system (UPS) with user configurability to enable/disable this functionality.	
		Charger must be capable of charging from PoE input with user configurability to enable/disable this feature	
The receiver must automatically restart after loss of power and must power up in the same configuration when powered down (or loss of power).			
The receiver must have a front panel display and a physical keyboard to allow the basic receiver configuration on site without the need of any other device (i.e.: IP configuration, data logging, coordinates set-up).			

	The receiver shall offer an automatic shutdown and wakeup routine to allow the receiver to power down when not needed and wake up at a predetermined time and continue the configured activity.	
	Support of logging rates from 50Hz to 600 seconds	
	Must contain internal solid state memory with up to 8GB of logging space. That should be able to maintain operation and logging during high motion events such as earthquake.	
	In addition to the internal memory, the receiver must have a port for removable media.	
	Must support a minimum of 12 independent and concurrent logging sessions.	
	Internally logged data shall have a file size of less than 1MB (unzipped) for a 24 hour, 15 second file to maximize storage capacity	
	Must be capable of producing both RINEX and BINEX file formats internal to the receiver without the need for external tools/converters.	
	Must be capable of pushing logged and converted data files to three separate FTP servers.	
	Receiver must support both a configurable ring buffer style memory deletion scheme as well as session specific "pools" with similar functionality. Additionally, data must be able to be protected from being overwritten in the case of an event	
	Receiver must support the configurable input, output and logging of Met/Tilt measurements.	
	The receiver must have an integrated RJ45 connector (supporting both TCP/IP and UDP), two serial ports, USB, and an external frequency input. RJ45 connector should be enabled for server feature.	
	A minimum of 10 unique TCP/IP ports. Unique meaning one multicast TCP/IP port (allows multiple connections) only counts as 1 TCP/IP port. Each port must be fully configurable independent of the other ports and outputs.	
	In addition to the 10 TCP/IP ports, the receiver shall support a minimum of 3 NTRIP Caster, 3 NTRIP Client, and 3 NTRIP Server ports	
	NTP Client and NTP Server functionality.	
	Receiver must support IP filtering restricting IP packet access to and from the receiver for enhanced access control security based on individual IP addresses or subnets based on a user specified netmask.	
	The receiver must support three Bluetooth connections or greater.	
	The receiver must support FTP downloads as well as the FTP REST command.	
	The receiver must support the following streaming data types: CMR, CMR+, CRMx, RTCM v2.x, RTCM v3.x (including MSM 1 through 7 messages), BINEX, and NMEA. Proprietary message types will be considered in addition to (not in replace of) the before mentioned formats.	
	The offered receiver shall be capable of monitoring its own absolute position to centimeter level accuracy and alerting via both graphical and email mean of any detected change in antenna position. The tolerance at which to send alerts shall be user configurable depending upon the solution type in use. When this tolerance is exceeded, the receiver must be able to automatically stop sending correction data until the antenna moves back within tolerance	
	The receiver shall support email alerts for various functions such as tracking, power, reboots, logging, status, etc.	
	The receiver shall support dynamic domain name system (DDNS).	
	Receiver must implement a secure network connection (secure means via an encrypted, authenticated session) as well as provide various access levels to the receiver controls.	
	Receiver must meet the following environmental specification: Operating temperature: -40° C - + 65° C, Humidity: 100%, fully sealed with IP67 certification, Shock: 1m drop to hard surface.	

2	GNSS Antenna	Chock Ring(with DM element) tracking GPS, Glonass, Galileo, Beidou, SBAS, L-Band,	
		Technology that minimizes multi-path interference.	
		Phase center stability better than 2 mm and repeatability less than 1 mm	
		Antenna gain 40dB or more	
		Supply current 125 mA maximum	
		Minimum tracking elevation = 0 degrees	
		Absolute calibration file from IGS must be available. For antenna calibrations to be valid the GNSS antenna must be orientated to within $\pm 5^\circ$ of True North while installation at site.	
		Powered by receiver (supply voltage 3.5 to 20VDC)	
		Antenna shall operate in humidity, high winds, sand storm and blowing rain	
		Temperature range is -40°C to $+65^\circ\text{C}$	
		Humidity up to 100, fully sealed	
Shock rating 1m drop			
	The antenna should be delivered with an external radome. Antenna + radome combination must have a valid antenna calibration.		
3	Antenna cable	<p>All CORS cabling is vulnerable to vandalism, weather, pests and fire. External cabling should be protected by secured conduits. Cable connectors are potential points of failure when stressed, corroded, or infiltrated by water, dust and pests. Self-amalgamating ultra-violet stabilized tape shall be used to protect cable connections.</p> <p>A short loop of excess cable at the antenna and receiver connections should be provided to avoid tension in cable.</p> <p>A grounded lightning protector in the antenna cable should be provided, especially in lightning prone areas. In lightning prone areas, the horizontal cable-run length should be as less as possible to minimize the risk of signal induction from nearby lightning strikes. If this is not possible, lightning arrestor should be fitted toward the receiver end of the cable.</p> <p>The Supplied cables and components should have a total signal loss of less than 9 dB over the length of the cable run.</p>	
4	Rovers for Field Work	Static Real Time Kinematic (RTK)	
		Consistent accuracy of 2 cm or better within 5 minutes (in RTK) mode	
		Consistent accuracy of 5 cm or better within 5 minutes (in RTK) mode	
		The offered receiver shall have 240 or more physical channels. Calibration Certificate to be submitted.	
		Multiple frequency and supporting the following simultaneous signal tracking: <ul style="list-style-type: none"> a. GPS: L1 C/A; L2E/L2P; L2C; L5 b. GLONASS: L1 C/A; L1P; L2 C/A; L2P; L3 c. GALILEO: L1 CBOC; E5A; E5B; E5 d. BEIDOU: B1; B2; B3 e. IRNSS: L5 	
		Receiver must be capable of receiving/transmitting the messages from base receiver through GSM/GPRS/TCIP network.	
		Receiver should support scalable accuracy without changing the hardware.	
	Receiver must be capable of tracking all satellites in view, even if unhealthy, to an elevation angle of 0° .		

	Receiver shall support real time kinematic positioning using industry standard formats.	
	Receiver shall have a minimum of one power inputs.	
	Receiver should contain an internal battery, capable of operating for up to 8 hours with internal/external battery charger. Provision for connection to external battery should also be provided.	
	Receiver must have 7" or better size screen/display with Window OS to allow the basic receiver configuration on site without the need of any other device.	
	Receiver must support of logging rates from 20Hz to 600 seconds.	
	Receiver must contain internal memory with minimum of 1GB of space or more.	
	The Receiver/smart Device must be provided with a heavy duty protective case or container for the main unit and the ancillary items.	
	In addition to the internal memory, the Receiver/smart Device must have a source of removable media of at least 8 GB memory.	
	Receiver must have integrated at least one serial and one USB port.	
	Receiver must support Bluetooth connections.	
	Receiver must meet the following environmental specification: Operating temperature: -40° C - + 65° C, Humidity: 100%, Shock: 1m drop to hard surface.	
	The antenna must support tracking of GPS, Glonass, Galileo, Beidou, IRNSS, SBAS signals.	
	Receiver should adopt technology that minimize multi-path interference.	
	Receiver antenna gain should be 29 dB or more.	
	Minimum tracking elevation = 0 degrees	
	The Receiver must be supplied with mounting kit having optical/laser plummet.	
	The Receiver/smart Device must have a robust adjustable (telescopic) range pole (minimum of 3.0m long) with quick release operation and robust bipod, heavy duty bag with reinforced solid base and reinforced opening is to be provided along with the range pole. Along with Receiver/smart Device, standard OEM accessories to be provided.	

2 TECHNICAL DETAIL FORMS: Control Centre (All components) at DEHRADUN(U.K.)

Sl. No.	Requirement at each location	Specifications	Bidder's Offered Specifications / Compliance/Deviation Statement (to be filled up by BIDDER)
1	Civil and Electrical:	<ul style="list-style-type: none"> • Approx. 600 sq. Feet built up area will be provided by purchaser) All civil works (with False ceiling and flooring) for cable routing, fitting Precision ACs and de-humidifier etc need to be carried out by supplier. • All Electrical works (incl. Earthing) for installing the Control centre with power back-up 	
2	Power Back-up	Seven (07) days 24X7 Un-interrupted power back-up arrangement with N+1 redundancy (Detailed power calculation sheet is to be submitted with the bid)	
3	Precision AC & De-humidifier	Seamless AC environment in the Control Centre	
4	Lightening Conductor And Surge protection	Lightening Conductor and Surge protector of reputed brand as per the UNAVCO specs	
5	Racks	Racks for housing the Servers, Switches, Router, KVM, Firewall etc.	
6	Server with N+1 redundancy capable of handling 500 concurrent user	<p>Standard 42U Rack mountable chassis based following servers of reputed make DELL/IBM/HP etc.with fault tolerant architecture:</p> <ul style="list-style-type: none"> (i) Control Server: For processing the Network corrections (ii) Site Server: Secure interface to receive CORS data (iii) Web server: User Interface (iv) FTP server: for raw CORS data <p>Refer Section VI (4): Drawing</p> <p>Servers should be 64 bit, at least 64 MB cache or higher, Multi core (at least 2X8 core) Intel Xeon E5-2650 (2.5 Ghz) or better processor with availability of extra sockets for adding atleast 2 more processors , atleast 64 GB Ram (with spare sockets for scalability), Server OS with modules for Clustering, Virtualization, Remote server management etc,at least 1.2 TB X 2 HDD SAS 2.5" 12 Gbps 10K rpm, Fiber Channel and Fast Ethernet connectors, Graphic Card supports above 1 Gbps etc.</p> <p>Server shall support up to minimum of 400 connected receiver stations with approximately 500 bytes per second traffic per node with latency better than 200 milliseconds. Architecture of server should be such that its capabilities can be enhanced in future with expansion of CORS network (i.e. increase in number of reference station and concurrent user etc), without changing basic architecture of server.</p>	
7	Other hardware	All hardware components viz load balancer (s), hardware Firewall (s),	

	components	L3 switches, Other Switches, Routers etc. or any other hardware / software required as part of the solution for requisite architecture with details of all sub-components in detail with the bid.	
8	Desktop computer with Display	One high end system with Dual core i7 or latest processor with atleast 16 GB or higher RAM, Good cache atleast 8M, Graphics card, 1.2 TB HDD SAS 2.5" 12 Gbps 10K rpm with two nos. of 40" TFT display panel of reputed brand at each Control Centre for monitoring of the CORS network at control centre& DR centre.	
9	Redundancy	No single point of failure configuration for all components like controllers, fans, disks and power supplies.	
12	OS Support	Windows Server OS (Version 2012 or later) with modules for Clustering, Virtualization, Remote server management etc.,	
13	Management	<ul style="list-style-type: none"> • GUI & CLI based remote management. • Management host must be provided with the solution. • Periodical online firmware upgrades. 	
15	Warranty	Five years comprehensive on-site warranty support	

3 TECHNICAL DETAIL FORM: Receiver Stations (All components)

SI No.	Requirement at each location	Specifications	Bidder's Offered Specifications / Compliance/Deviation Statement (to be filled up by BIDDER)
CORS stations should be as per UNAVCO specifications for size, design, operation and quality to house GNSS receiver system and other peripherals (including power back-up systems).			
1	Civil and Electrical Works (Monumentation):	<p>Design, quality and specifications of reference pillars should generally meet UNAVCO guidelines for Ground Mount or Roof Mount on suitability at a particular station as decided by the SOI</p> <p>(a) Ground Mount pillar pedestal of 1.2 m X 1.2 m should be 2 to 3 m below ground level depending on soil type. Dimension of pillar above pedestal will be 55 cm X 55 cm. Height of pillar of reference station should be 3 m above ground level. Diameter of reinforcement should be 8 bars of 20 mm dia with standard spacing and tie bars of diameter 8 mm at a spacing of 25 cm c/c. Dimension of pillar above pedestal should be 55 cm X 55 cm Reference station platform should be a RCC structure with M40 grade concrete and reinforcement grade Fe500.</p> <p>(b) Roof Mount pillar pedestal should be 1.2 m X 1.2 m with thickness 25 cm. Dimension of pillar above pedestal will be 25 cm X 25 cm. Height of pillar of reference station should be 1.2 to 1.7 m above pedestal top. Diameter of reinforcement should be 4 bars of 20 mm dia with standard spacing and tie bars of diameter 8 mm at a spacing of 25 cm c/c. Reference station platform should be a RCC structure with M40 grade concrete and reinforcement grade Fe500.</p> <p>(c) The ground mounted reference pillar and equipment housing should</p>	

		<p>be fenced with a hot dip galvanized iron fencing with one door, lock and key.</p> <p>(d) An accelerometer should be installed at pillar, to capture deformation of pillar and foundation/building. Data captured by accelerometer should be recorded in rinex file along with meteorological data.</p> <p>All equipment except antenna, antenna radom, and solar panels should be encased in antistatic, weather proof, temper proof steel housing of NEMA 4 type enclosure. Housing shall have door on front to accesses equipment for maintenance etc. Access through Door shall be restricted by bolt secured by lock. Enclosure shall be affixed on one of face of pillar with proper anchorage with pillar. Provision for anchorage should made during casting of pillar.</p> <p>All Electrical works (incl. Earthing) at reference station site for installing all components including power back-up</p>	
2	Lightening Conductor & Surge protection	Lightening Conductor and Surge protector of reputed brand as per the UNAVCO specs	
3	Power Back-up	Seven (07) days 24X7 Un-interrupted power back-up arrangement with N+1 redundancy (Detailed power calculation sheet is to be submitted with the bid) Power connection at each reference station is to be taken by bidder on behalf of purchaser.	
4	Solar Panel	Two (2) Nos. of industry grade solar panels of 55 watts each to be installed at Reference station The solar charge controller should be part of supply. Solar panel and battery should support minimum 10 days uninterrupted power supply.	
5	Interoperability	With all Industry standard RTK Rovers	
6	Accessories	AC, DC power cables, Batteries, Connectors, Rack mounting kit, Antenna adaptor (as per UNAVCO specs), Industry grade flash and SD cards, battery chargers (one extra), Fuses etc.	
7	Memory	Internal Memory of GNSS receiver should be 24 GB or more and 1 Terabyte auxiliary USB supported storage device.	
8	Data Logging	Maximum logging rate 50 Hz.	
9	Meteorological Sensor	<p>Measurement of temperature, pressure and humidity to be integrated with binary file in GNSS receiver with following specification</p> <ol style="list-style-type: none"> 1. Accuracy – Temp: 0.2 deg. C, pressure: 0.15 hPa humidity: 2% 2. Stability - Temp: 0.5 deg. C/year, pressure: 0.1 hPa/year humidity: 2%/year 3. Operating range - Temp: + 60 to -50 deg. C, pressure: 650 to 1100 hPa humidity: 0 to 100% 4. Power +6 to +16V DC, typical current drain 3 mA in sleep mode, and 38mA maximum 5. Port: RS232/USB should be adaptable with GNSS receiver <p>Install meteorological sensors separately from the CORS monument to minimize any increase in the multipath environment. RINEX shall be used to record and transmit meteorological data. Survey the position of all auxiliary sensors for inclusion in the site logs and metadata. The height difference between the pressure measurement reference mark of the meteorological sensor and the CORS reference point should be determined to better than 10 millimeters.</p> <p>Offered software solution for network RTK should also include the module for calculation of integrated Precipitable Water Vapour</p>	

		(IPVV), Total Electron count(TEC) and slanting wet delay (SWD) along the line of sight in real time from GNSS observation.	
10	Communication line:	Between Receiver Stations and Control Centre: a) Primary: ADSL/Broadband b) Secondary: Wireless cellular i.e. GSM/CDMA (2G/3G/4G), Provision for Dual SIM shall be provided to increase reliability. ADSL/Broadband and Wireless cellular connection at each reference station is to be taken by bidder on behalf of purchaser. Each receiver station shall be equipped with 2 GSM/CDMA SIMs to increase reliability. Both SIMs shall not be from same Network/Service provider. Irrespective of the communications method used, the data latency between the CORS site and the network control centre should be designed to be less than half a second.	
11	Warranty	Five years on-site comprehensive warranty support	
12	Comprehensive Insurance	Comprehensive insurance of equipments against theft, fire and vandalism from date of installation till end of contractual period of shall be taken by supplier on behalf of purchaser	

4 TECHNICAL DETAIL FORM: Communication Network (All components)

Sl. No.	Requirement at each location	Specifications	Bidder's Offered Specifications / Compliance/Deviation Statement (to be filled up by BIDDER)
Communication system should be secure (with end to end encryption) and should have N+1 redundancy. For this communication between Reference station and control centre should be provided primarily through ADSL/Broadband and secondary communication through GSM/CDMA/GPRS/3G/4G etc. with auto switch facility. End to end encryption should be ensured by creating a VPN between reference station (remote station) and Site sever at the control centre for data transfer. Irrespective of the communications method used, the data latency between the CORS site and the network control centre should be designed to be less than half a second.			
1	Hardware components	Compatible components with receiver stations and control centre hardware should be provided supporting secure end to end communication Communication hardware source power requirements and un-interrupted operation should be ensured while offering the solution and power back-up calculation sheet for receiver stations and Control centre	
2	Communication line:	<ol style="list-style-type: none"> 1. Between Receiver Stations and Control Centre communication shall be made through: <ol style="list-style-type: none"> i. Primary: ADSL/Broadband ii. Secondary: Wireless cellular i.e. GSM/CDMA (2G/3G/4G) 2. Between Control Centre and Data Reception node of ADSL/Broadband service provider at Dehradun for 100% active configuration shall be through optical fiber or lease line connection of sufficient capacity to handle data volume received to be on data center. 3. For secondary mode of reception alternate arrangement through wireless cellular (e.g. 2G/3G/4G) of sufficient capacity shall be provided to connect Control Centre and Data Reception node of wireless service provider. <p>Lease line/optical fiber/ADSL/Broadband and Wireless cellular connection at each reference station and control centre is to be taken by bidder on behalf of purchaser.</p>	
2	Warranty Support	5 Years comprehensive on-site warranty	

5 TECHNICAL DETAIL FORM: Software Solution (All Components)

Sl. No.	Name of the Item	Specifications	Bidder's Offered Specifications / Compliance/Deviation Statement (to be filled up by BIDDER)
1	Control center Software with perpetual license	Client/Server Architecture	
		Must run automatically and continuously as a windows service under Windows™ 2016 Server and 64bit operating system supported	
		Software Services shall start automatically with other services when booting.	
		The software must support installation in virtual environments including Microsoft Hyper-V and VMWare	
		The operator does not need to be logged into Windows.	
		If power fails, the software will restart immediately when the	

	power returns and the computer reboots	
	Shall have fast and efficient multiple-user access to its own database	
	Graphical User-Interface	
	The client application shall have a “graphical user interface” with typical Windows™ look and feel, that controls the server. It should be able to be installed on remote PC’s as well as on the server:	
	Easy to learn and use and Self-explanatory panels, boxes, windows, toolbars	
	Map-views must include background map for a better visibility of the network.	
	Graphical UI with drop-down menus for better configuration and organization of system setup in UI and to select receiver hardware type, antenna type, tectonic plate and datum per station.	
	Software must run independently from the GUI and software must run as a Windows Service	
	The software must provide one common user interface for a complete redundant system installation over all servers used within the setup. It shall provide health status information on the functionality of the software as well as on the underlying services. It shall be possible to restart services through this user interface	
	Security	
	The Software shall have three-access level Administrator, User and Guest:	
	Administrators must be able to start and stop the various operations, create and change configurations, set parameters and modes etc.	
	The User security level allows the modification and configuration of operation relevant settings	
	Viewers should only be able to inspect the operation of the software, configuration parameters, system and receiver status etc. and not be able control the software and its operation	
	System monitoring	
	The software shall Monitor the various communication links and the operation of the entire system	
	The software must provide one view with offers the health status of all modules in the system at one glance.	
	Controls GNSS receivers, directly and remotely	
	The software shall remotely control the GNSS receivers	
	Generates event logs, alarms & warnings on receiver status, network status and data quality status	
	Check all downloaded data for completeness and retrieve missing data automatically from the internal receiver memory	
	The software must allow monitoring the current velocities of point or station movement additionally to their displacements	
	The GNSS Software must be able to monitor the stations	

	<p>coordinates in real time and post processing with the possibility to configure alarms and reports. This system must have the following minimum set of features:</p> <ul style="list-style-type: none"> - relative position monitoring based on fixed stations inside the Network - Absolute position monitoring based on PPP technology <p>The results shall be presented in a graphical way and shall allow a system administrator to view time series on the integrity checks.</p>	
	The software must be capable to analyze the performance of rovers in a network based on network corrections and Time to Fix (TTF) of a rover after reset	
	The software must be capable of eliminate negative effects from erroneous coordinates (for example, incorrect coordinates or antenna height, or shifts resulting from earth movements)	
	System processing	
	The GNSS Software Shall Computes in real-time a global adjustment of the network for best estimation of all GNSS errors	
	GNSS-software must be able to perform the independent calculation of reference station absolute and global positions using PPP method and comparison with given reference station coordinates. Any inconsistency should remove the station from network solution automatically and notify the operator, according to alarm configuration	
	Allows the Network RTK solution to be valid even outside the polygon of Reference Stations up to 20km	
	The software must use individual reference station velocities in the network processing	
	The software must be capable to operate and process Network-RTK corrections for at least 400 reference stations on one single standard-industrial server within one single instance/process of the software and within one module. The software must be capable to handle at least 2000users at the same time on one single standard-industrial server within one single instance/process of the software and within one module.	
	The software must create full-constellation Network-RTK corrections for at least 2000 users	
	The software must be capable to send Glonass, Beidou and Galileo corrections in case of multi-constellation-capable receivers are not deployed on all reference stations. The bidder shall explain the used methodology for this solution.	
	The GNSS Software shall generate different type of corrections to allow different kind of services:	
	Network-RTK corrections of the following satellite systems, frequencies and signals: GPS (L1, L2, L2C, L5), Glonass (G1,	

	G2), QZSS, Galileo (E1 and E5 AltBoc (pilot and data)) and BeiDou (B1, B2) (all together)	
	RTCM MSM input and output	
	DGPS corrections in RTCM v2.x format	
	Single RTK corrections from specific stations	
	Single RTK corrections from nearest station (requires user's position via NMEA string).	
	All Real-time corrections shall be given in the International Recognized Standard called RTCM. RTCM messages in version 2.x and 3.x only are allowed. Any deviation to this standard is not recommended.	
	The following three Network-RTK standard method (RTCM standard) should be supported <ul style="list-style-type: none"> - Concept of Virtual Reference Stations (VRS) - MAC (Master Auxiliary Concept) - FKP (Flaechenkorrekturparameter) 	
	Offered software solution for network RTK should also include the module for calculation of integrated Precipitable Water Vapour (IPWV), Total Electron count(TEC) and slanting wet delay (SWD) along the line of sight in real time from GNSS observation.	
	Distribution channels	
	The GNSS Software shall provide access to the following communication channels:	
	Provisional dial-up via individual land-line modems,	
	Provisional dial-Up via cellular/GSM modems and a multiplexer.	
	Provisional Radio modems (Satel, Pacific Crest,...) in case of one-way corrections like single base RTK.	
	Internet, intranet, local or wide area networks (TCP/IP) or with Mobile Cellular GPRS or Wireless technology using RTCM standard NTRIP 1.0 and NTRIP 2.0	
	Web Interface	
	The Software shall include a web server part to provide:	
	<ul style="list-style-type: none"> - Management and control of end users access: - Clients can register online - Once the registration is accepted by the administrator, clients can access the web server services according to their specific authorization - The software shall allow the customer billing and management of costs 	

		- Clients can pay online	
		The Software shall allow the downloading of Rinex and Virtual Rinex files	
		The software shall provide Online post processing service by using the network reference stations	
		Availability and compatibility	
		High Availability of Network RTK service for user of specified accuracy and precision on an average > 95 % computed on monthly basis	
		The Network should be compatible will all industry standard RTK Rovers	
		The Network should provide solution for the Rover compatible with high accuracy correction stream delivered via non-Terrestrial communications e.g. L- Band Satellites.	
		The Network should allow users to access a range of GNSS accuracy levels on their mobile device, from 1 meter to a few centimeters, on-demand.	
		Client/Server Architecture	
		Must run automatically and continuously as a windows service under Windows™ 2016 Server and 64bit operating system supported	

**6 SERVICE SUPPORT DETAILS FOR HONOURING WARRANTY
– Control Centre (All Components)**

Sl. No.	Destination	NEAREST SERVICE CENTRE *					
		Location (Address)	Phone No. Fax No. e-mail	Status of Office Working Days and Hours	Number of Engineers	Number Of Staff	Value of Min. Stock Available at all times
1	Control Centre (Separate details of support for each Sub component specified in the Un-Priced and priced Bid are to be provided here)	Dehradun (U.K.)					

**7 SERVICE SUPPORT DETAILS FOR HONOURING WARRANTY
– Receiver Stations (All Components)**

Sl. No.	Destination	NEAREST SERVICE CENTRE *					
		Location (Address)	Phone No. FaxNo. e-mail	Status of Office Working Days and Hours	Number of Engineers	Number Of Staff	Value of Min. Stock Available at all times
1	Control Centre (Separate details of support for each Sub component specified in the Un-Priced and priced Bid are to be provided here)	Dehradun (U.K.)					
2	Sites (Separate details of support for each Sub component specified in the Un-Priced and priced Bid are to be provided here)	As indicated in Part 7 of Section VII					

8 SERVICE SUPPORT DETAILS FOR HONOURING WARRANTY
–Communication Network (All Components)

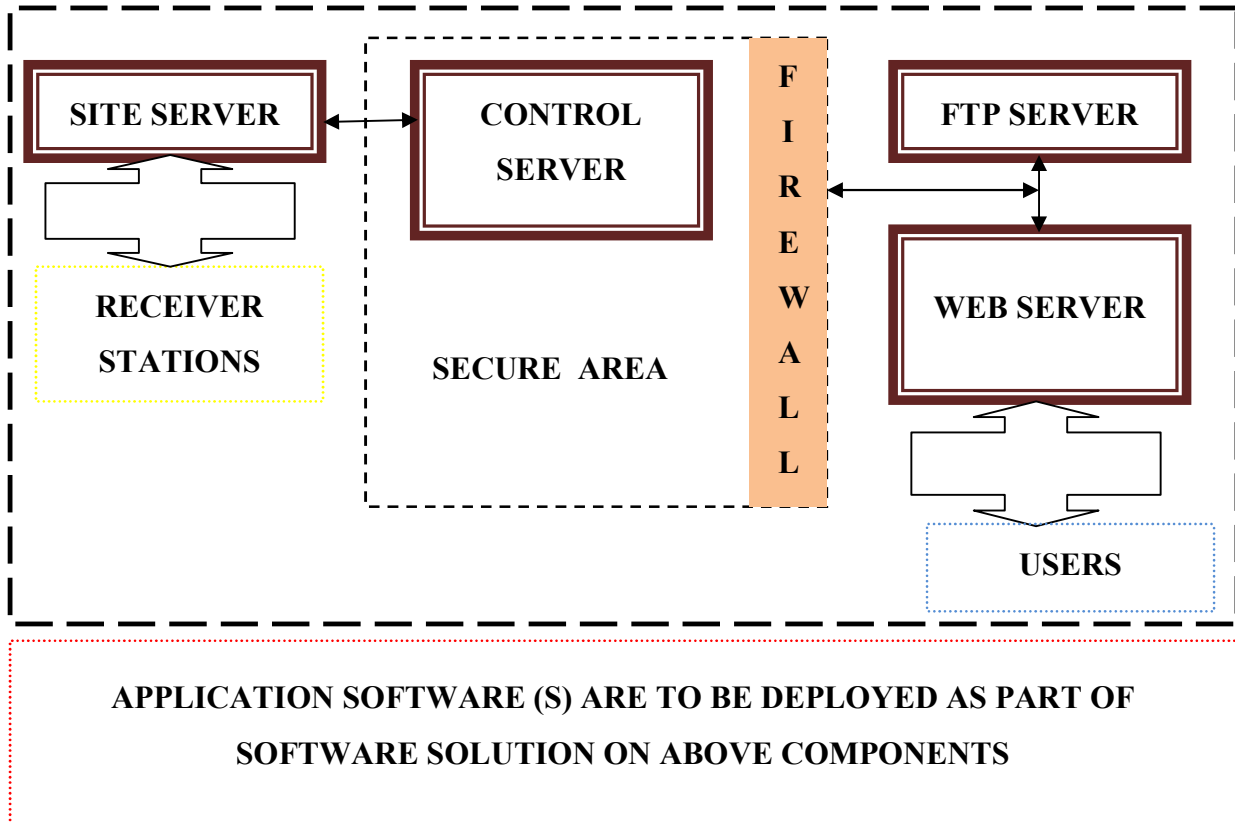
Sl. No.	Destination	NEAREST SERVICE CENTRE *					
		Location (Address)	Phone No. FaxNo. e-mail	Status of Office Working DaysandHours	Number of Engineers	Number OfStaff	Value ofMin.Stock Available at all times
1	Control Centre (Separate details of support for each Sub component specified in the Un-Priced and priced Bid are to be provided here)	Dehradun (U.K.)					
2	Sites (Separate details of support for each Sub component specified in the Un-Priced and priced Bid are to be provided here)	As indicated in Part7 of Section VII					

9 SERVICE SUPPORT DETAILS FOR HONOURING WARRANTY
– Software Solution (All Components)

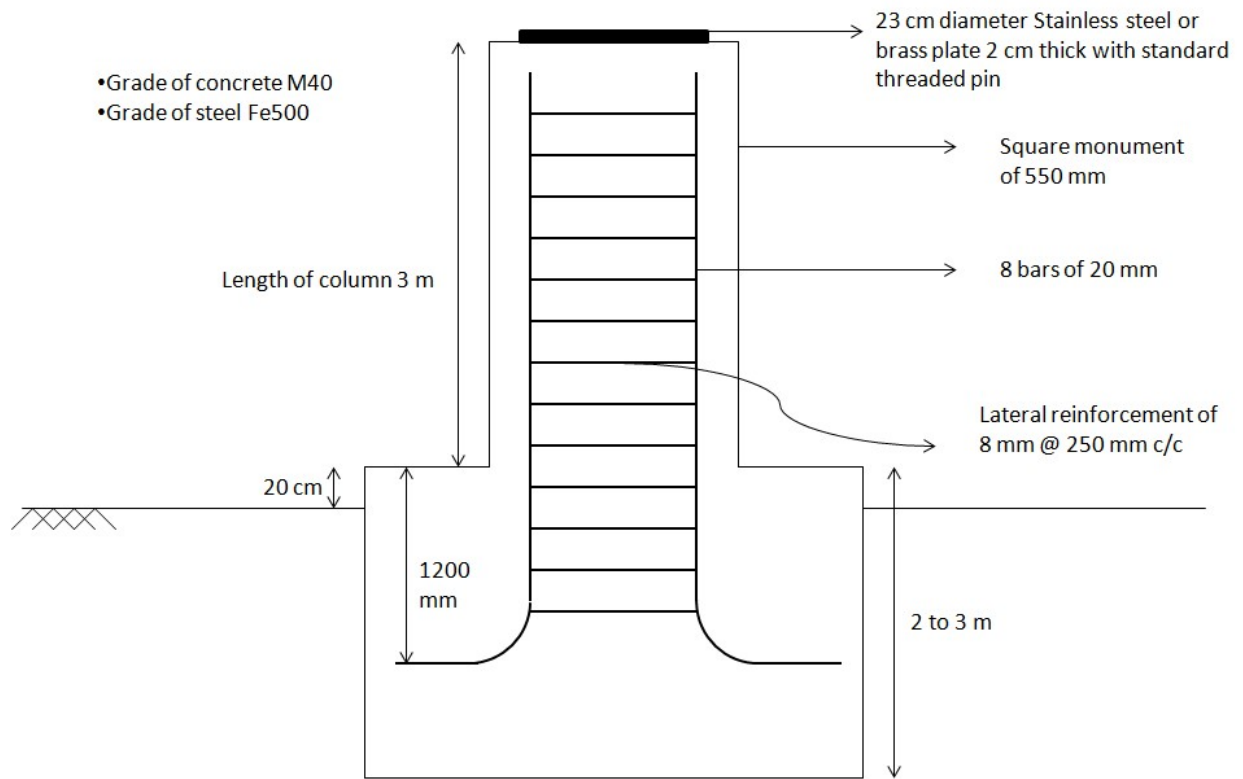
Sl. No.	Destination	NEAREST SERVICE CENTRE *					
		Location (Address)	Phone No. FaxNo. e-mail	Status of Office Working Daysand Hours	Number of Engineers	Number OfStaff	Value ofMin.Stock Available at all times
1	Control Centre (Separate details of support for each Sub component specified in the Un-Priced and priced Bid are to be provided here)	Dehradun (U.K.)					
2	Sites (Separate details of support for each Sub component specified in the Un-Priced and priced Bid are to be provided here)	As indicated in Part7 of Section VII					

4. DRAWINGS

Control Centre Architecture:



CONTROL CENTRE ARCHITECTURE



REFERENCE STATION MONUMENT

5. INSPECTIONS AND TESTS

The following inspections and tests shall be performed:

- (i) The inspection of the goods shall be carried out to check whether the goods are in conformity with the technical specifications attached to the purchase/work order form and shall be in line with the inspection/test procedures laid down in the technical specifications and the manufacturer's warranty certificate. The purchaser will test the equipment after completion of the installation and commissioning at the site of the installation. For site preparation, the supplier should furnish all details to the purchaser sufficiently in advance so as to get the works completed before receipt of the equipment. Complete hardware and software as specified under Technical Specifications should be supplied, installed and commissioned properly by the supplier prior to commencement of performance tests.
- (ii) The acceptance test will be conducted by the committee constituted by the purchaser, where the final delivery is to be made. The committee shall inspect and make recommendations for acceptance of goods & related services offered by the supplier for Final Acceptance by the NHP Project Director. The acceptance will involve successful installation, commissioning, performance by the way of trouble-free operation during the acceptance exercise at site. The acceptance exercise shall be combined with the Training exercise to be imparted by the supplier to SoI personnel. There shall not be any additional charges for carrying out acceptance tests. No malfunction, partial or complete failure of any part of hardware or bugs in the software should occur. All the software should be complete and no missing modules/sections will be allowed. The softwares should be correctly configured to the requirements of SoI. The outputs generated during the acceptance exercise and/or training exercises to demonstrate the successful performance of the equipment/software, shall be taken into account by the Committee before issuing the Acceptance Certificate.
- (iii) In the event of the equipment and/or on-board software failing to pass the acceptance test, a period not exceeding 15 days will be given to rectify the defects and clear the acceptance test, failing which the purchaser reserves the rights to get the equipment replaced by the supplier at no extra cost to the purchaser.
- (iv) Acceptance Test Procedure (ATP) document for supply and installation of equipments at Control Centre, Site Server and Reference Stations should be provided by the bidder. Acceptance test on the supplied equipment must be conducted as per the ATP document by the bidder.
- (v) Manufacturer's test and inspection certificate to be provided along with the supply and installation
- (vi) Initial Acceptance Test for RTK network: The Test shall be carried out in the triangular area bounded by the 1st three Reference Stations at adjoining locations 50-60 km apart, to which the Control Centre & corresponding Site Server have been integrated. If the results of the test do not meet the Technical specifications, it shall be

responsibility of the Bidder to identify the extent and cause of error and carry out corrective steps accordingly.

- (vii) Incremental Acceptance Test for RTK Network: Whenever, an additional Reference Station is commissioned, performance of RTK network shall be checked against the performance indicators specified in the Technical specifications. The Test shall be carried out in the additional triangular area due to integration of the Reference Station to the RTK Network. If the results of the test do not meet the specifications laid down in the Technical specifications, it shall be responsibility of the Bidder to identify the extent and cause of error and carry out corrective steps accordingly.
- (viii) Manuals and Drawings:
 - (a) Before the goods and equipments are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals together with drawings of the goods and equipment. These shall be in such detail as will enable the Purchaser to operate, maintain, adjust and repair all parts of the works as stated in the specifications.
 - (b) The manuals and drawings shall be in the ruling language (English) and in such form and numbers as stated in the contract.
 - (c) Unless and otherwise agreed, the goods and equipment shall not be considered to be completed for the purpose of taking over until such manuals and drawings have been supplied to the Purchaser.
- (ix) For the System and Other Software the following will apply:

The Supplier shall provide complete and legal documentation of hardware, all subsystems, operating systems, compiler, system software and the other software. The Supplier shall also provide licensed software for all software products, whether developed by it or acquired from others. The supplier shall also indemnify the purchaser against any levies/penalties on account of any default in this regard.
- (x) Acceptance Certificate:

On successful completion of acceptability test and training exercise, receipt of deliverables etc, and after the Purchaser is satisfied with the working of the system, the acceptance certificate signed by the supplier and the Committee constituted by the purchaser will be issued. The date on which such certificate is signed shall be deemed to be the date of successful commissioning of the systems.

6. PROFORMA OF CERTIFICATE FOR ISSUE BY THE PURCHASER AFTERSUCCESSFUL 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. *

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.

7. TENTATIVE LOCATIONS OF THE RECEIVER STATIONS

NAME	Y	X	STATE	DISTRICT	TASHIL_TALUKA	LOCALITY	BRIEF_DESC
AMIRNAGAR	27.951052	80.33333	U.P.	KHERI	GOLUGORKAH NATH	PURV MADHYAMIC VIDHYALAYA	GCP IS SITUATED IN THE PREMISES OF PURV MADHYAMIC VIDHYALAYA, AMIRNAGAR
BARAUT	29.088991	77.265398	U.P.	BAGPAT	BARAUT	DIGAMBER JAIN POLYTECHNIC	GCP IS SITUATED IN THE COMPUND OF DIGAMBER JAIN POLYTECHNIC, BARAUT
CHHIBRAMAU	27.160032	79.479133	U.P.	KANNAUJ	CHHIBRAMAU	AGRICULTURE MANDI	GCP IS SITUATED IN THE LAND OF AGRICULTURE MANDI, CHHIBRAMAU
GAINCHVAN(NEW)	31.06415	78.101441	U.K.	UTTARKASHI	MORI	GOVT. INTER COLLEGE, NAITWAR VILLAGE	GCP IS SITUATED IN THE CAMPUS OF GOVT. INTER COLLEGE, NAITWAR VILLAGE
KASGANJ	27.807221	78.640432	U.P.	ETAH	KASGANJ	NAGAR PALIKA GIRLS DEGREE COLLEGE	GCP IS SITUATED IN THE PREMISES OF NAGAR PALIKA GIRLS DEGREE COLLEGE, KASGANJ
MUNSYARI	30.06244	80.241477	U.K.	PITORAGARH	MUNSYARI	GOVT. INTER COLLEGE	GCP IS SITUATED IN THE CAMPUS OF GOVT. INTER COLLEGE, MUNSYARI
NAJIBABAD	29.608195	78.339542	U.P.	BIJNOR	NAJIBABAD	GOVT. INTER COLLEGE (OLD)	GCP IS SITUATED IN THE CAMPUS OF GOVT. INTER COLLEGE (OLD), NAJIBABAD
KARANPRAYAG	30.258720	79.216138	U.K.	CHAMOLI	KARANPRAYAG	GOVT DEGREE COLLEGE	GCP IS SITUATED IN THE CAMPUS OF GOVT DEGREE COLLEGE, KARNAPRAYAG
PILANG	30.781609	78.616581	U.K.	UTTARKASHI	BHATWARI	GOVT. PRIMARY SCHOOL	GCP IS SITUATED IN THE PREMISES OF GOVT. PRIMARY SCHOOL, BHELLA TIPRI
PITHORAGARH	29.58632	80.219726	U.K.	PITHORAGARH	PITHORAGARH	MISSION INTER COLLEGE	GCP IS SITUATED IN THE CAMPUS OF MISSION INTER COLLEGE, PITHORAGARH
BADRINATH	30.742851	79.493418	U.K.	CHAMOLI	JOSHIMATH	GUEST HOUSE (PWD)	GCP IS SITUATED IN THE PREMISES OF GUEST HOUSE (PWD), BADARINATH
BARULI	28.086173	78.054597	U.P.	ALIGARH	GABHANA	NAVEEN PRATHMIC HEALTH CENTRE	GCP IS SITUATED IN THE PREMISES OF NAVEEN PRATHMIC HEALTH CENTRE, BARULI
BUDAUN	28.077214	79.134138	U.P.	BUDAUN	BUDAUN	SALARPUR VILLAGE	GCP IS SITUATED IN THE CAMPUS OF POLYTECHNIC ON ANWALA ROAD, SALARPUR VILLAGE
FARIDPUR	28.217064	79.53701	U.P.	BAREILLY	FARIDPUR	INSPECTION BUNGLOW (CANAL)	GCP IS SITUATED IN THE COMPUND OF INSPECTION BUNGLOW (CANAL), FARIDPUR
FATEHABAD	27.027153	78.320889	U.P.	AGRA	FATEHABAD	BADSHAHIBAG	GCP IS SITUATED IN THE LAND OF BADSHAHIBAG IN FRONT TAHSIL OFFICE, FATEHABAD
GULAVTHI	28.580409	77.790284	U.P.	BULANDSHAHR	BULANDSHAHR	BDO OFFICE	GCP IS SITUATED IN THE COMPUND OF BDO OFFICE, BULANDSHAHAR
HALDWANI	29.2061385	79.5216597	U.K.	NAINI TAL	LALKUWA	GMC HALDWANI	GCP IS SITUATED IN PLAYGROUND OF GMC HALDWANI
HARKHAPUR	28.144907	81.236803	U.P.	BHARAICH	NANPARA	PRE-MIDDLE SCHOOL, PRITHVIPURVA	GCP IS SITUATED IN AN OPEN FIELD OF PRE-MIDDLE SCHOOL, PRITHVIPURVA, BAHAICH
HASTINAPUR	29.154608	77.985646	U.P.	MEERUT	MAWANA	GOVT. INTER COLLEGE (BOYS)	GCP IS SITUATED IN THE PREMISES OF GOVT. INTER COLLEGE (BOYS), HASTINAPUR
HATHRAS	27.583001	77.98183	U.P.	MAHAMAYANAGAR	HATHRAS	DISTRICT MAGISTRATE OFFICE	GCP IS SITUATED IN THE CAMPUS OF DISTRICT MAGISTRATE

							OFFICE, HATRAS
KASHIPUR	29.214656	78.970277	U.K.	UDHAMSINGH NAGAR	KASHIPUR	INSPECTION BUNGLOW (IRRIGATION)	GCP IS SITUATED IN THE PREMISES OF INSPECTION BUNGLOW (IRRIGATION), KASHIPUR
KEDARNATH	30.4039808	79.3313042	U.K.	RUDRAPRAYAG	OKHIMATH	GARWAL MANDAL VIKAS NIGAM GUEST HOUSE	GARWAL MANDAL VIKAS NIGAM GUEST HOUSE, KEDARNATH
NANAUTA	29.713742	77.43583	U.P.	SAHARANPUR	RAMPUR MANIHARAN	BDO OFFICE	GCP IS SITUATED IN THE PREMISES OF BDO OFFICE, NANAUTA
PURANPUR	28.524343	80.144885	U.P.	PILIBHIT	PURANPUR	NAVEEN KRISHI MANDI	GCP IS SITUATED IN THE CAMPUS OF NAVEEN KRISHI MANDI, PURANPUR
RICHTHA	28.688482	79.541281	U.P.	BAREILLY	BAHERI	NAVEEN AGRICULTURE MANDI	GCP IS SITUATED IN THE CAMPUS OF NAVEEN AGRICULTURE MANDI, RICHTHA
ROORKEE	29.856761	77.882693	U.K.	HARIDWAR	ROORKEE	UP PRABHAGIYA VAN ADHIKARI OFFICE	GCP IS SITUATED IN THE CAMPUS OF UP PRABHAGIYA VAN ADHIKARI OFFICE, ROORKEE
SAMBHAL	28.573428	78.565603	U.P.	MORADABAD	SAMBHAL	MGM INTER COLLEGE	GCP IS SITUATED IN THE CAMPUS OF MGM INTER COLLEGE, SAMBHAL
SHAHABAD	28.561913	79.018253	U.P.	RAMPUR	SHAHABAD	NAVEEN AGRICULTURE MANDI	GCP IS SITUATED IN THE PREMISES OF NAVEEN AGRICULTURE MANDI, SHAHABAD
SITAPUR	27.578864	80.661784	U.P.	SITAPUR	SITAPUR	AGRICULTURE MANDI SAMITI	GCP IS SITUATED IN THE LAND AGRICULTURE MANDI SAMITI, SITAPUR
BANGARMAU	26.88354	80.215815	U.P.	UNNAO	SAFIPUR	INDIRA GANDHI GOVT. DEGREE COLLEGE	GCP IS SITUATED IN THE CAMPUS OF INDIRA GANDHI GOVT. DEGREE COLLEGE, BANGARMAU
KOSI	27.78777	77.437086	U.P.	MATHURA	CHATTA	AGRICULTURE MANDI SAMITI	GCP IS SITUATED IN THE LAND OF AGRICULTURE MANDI SAMITI, KOSI
JALALABAD	27.72352	79.652616	U.P.	SHAHJAHANPUR	JALALABAD	GOVT. DEGREE COLLEGE	GCP IS SITUATED IN THE CAMPUS OF GOVT. DEGREE COLLEGE, JALALABAD
FATEHPUR	25.942949	80.804516	U.P.	FATEHPUR	FATEHPUR	INSPECTION BUNGLOW (PWD)	GCP IS SITUATED IN THE CAMPUS OF INSPECTION BUNGLOW (PWD), ABU NAGAR, FATEHPUR
MANDAWRA	24.402138	78.964931	U.P.	LALITPUR	MAHRONI	RAMGARH VILLAGE	GCP IS SITUATED ON ROCK IN CENTRAL MOUND, RAMGARH VILLAGE
MUIRPUR	24.157003	83.027611	U.P.	SONBHADRA	DOODI	DHADERA VILLAGE	GCP IS SITUATED ON LOW LAND PLATEAU, DHADERA VILLAGE
DIBIYAPUR	26.708192	79.614787	U.P.	AURAIYA	BIDHOONA	VILLAGE TRI-JUNCTION PILLAR	GCP IS SITUATED AT VILLAGE TRI-JUNCTION PILLAR NEAR SABALPUR VILLAGE
NAGRAM	26.531168	81.018795	U.P.	LUCKNOW	MOHAN LAL GANG	PRIMARY SCHOOL	GCP IS SITUATED IN THE COMPUND OF PRIMARY SCHOOL, ADHAIA VILLAGE
AZAMGARH	26.189829	83.226751	U.P.	AZAMGARH	SAGRI	JAL VIBHAG	GCP IS SITUATED ON ROOF TOP OF THE STORE ROOM, JAL VIBHAG, BILERIAGANJ
BANSI	27.14972	82.905625	U.P.	SIDDARTHANAGAR	BANSI	MAHA MANA MALVIYA UCHA MADHYAMIC SCHOOL	GCP IS SITUATED IN FRONT OF MAHA MANA MALVIYA UCHA MADHYAMIC SCHOOL, BARGADWA
BHINGA	27.706676	81.905964	U.P.	SHRAWASTI	BHINGA	DIOS OFFICE	GCP IS SITUATED IN THE CLOSED CAMPUS OF THE DIOS OFFICE, BHINGA
GORAKHPUR	26.729271	83.391757	U.P.	GORAKHPUR	GORAKHPUR	CIRCUIT HOUSE	GCP IS SITUATED IN THE PREMISE OF CIRCUIT HOUSE, GORAKHPUR
KAISARGANJ	27.226659	81.547042	U.P.	BAHRAICH	KAISARGANJ	INSPECTION BUNGLOW (PWD)	GCP IS SITUATED IN THE PREMISES OF INSPECTION BUNGLOW (PWD), KONARI

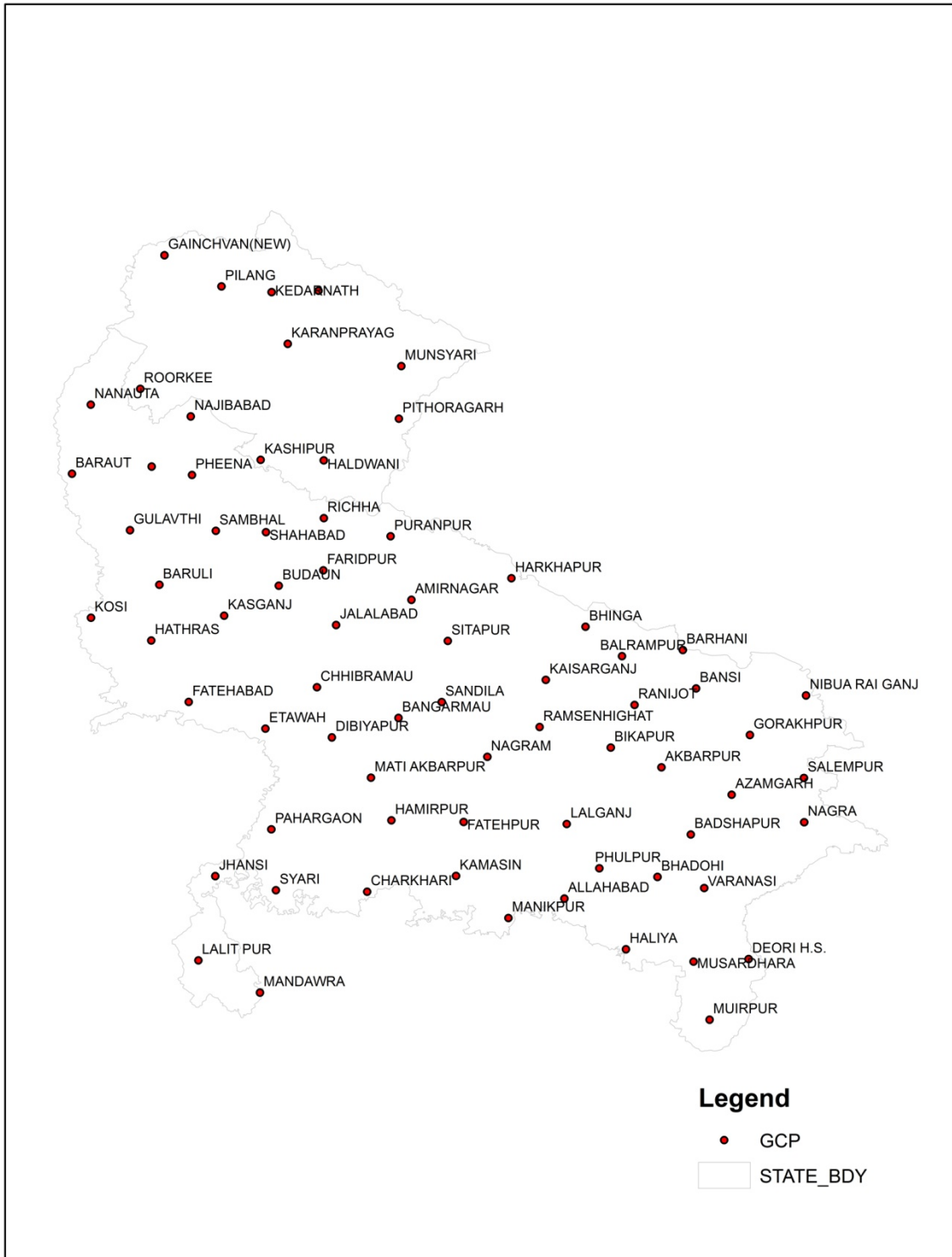
ALLAHABAD	25.251747	81.715028	U.P.	ALLAHABAD	BARA	TAHSIL OFFICE, BARA	GCP IS SITUATED IN THE CAMPUS OF TAHSIL OFFICE, BARA, ALLAHABAD
BADSHAPUR	25.830092	82.857531	U.P.	JAUNPUR	JAUNPUR	VILLAGE TRI-JUNCTION PILLAR	GCP IS SITUATED AT VILLAGE TRI-JUNCTION PILLAR, CHAUKI, BHUTAN DIH & KHARANT
BALRAMPUR	27.441234	82.235744	U.P.	BALRAMPUR	BALRAMPUR	GOVT. PRIMARY SCHOOL	GCP IS SITUATED IN THE COMPUND OF GOVT. PRIMARY SCHOOL, SISAI
BARHANI	27.497224	82.785172	U.P.	SIDDHARTH NAGAR	SHOHRATGARH	REST HOUSE (PWD)	GCP IS SITUATED IN THE CAMPUS OF REST HOUSE (PWD), BARHANI
DEORI H.S.	24.704801	83.379391	U.P.	SONBHADRA	ROBERTSGANJ	CHUDEHRA BABA HILL	GCP IS SITUATED ON THE WEST OF TEMPLE ON CHUDEHRA BABA HILL
HALIYA	24.793532	82.272416	U.P.	MIRZAPUR	LALGANJ	SUKHARA VILLAGE	GCP IS SITUATED ON THE MAIN SLIUCE OF WATER TANK, SUKHARA VILLAGE
HAMIRPUR	25.957535	80.152301	U.P.	HAMIRPUR	HAMIRPUR	TAHSIL OFFICE	GCP IS SITUATED IN THE CAMPUS OF TAHSIL OFFICE, HAMIRPUR
KAMASIN	25.455148	80.735074	U.P.	BANDA	BABERU	PAUIA VILLAGE	GCP IS SITUATED ON A ROUND LOW HILL NEAR PAUIA VILLAGE
LALGANJ	25.92519	81.736772	U.P.	PRATAPGARH	LALGANJ	DHADUA GAJAN VILLAGE	GCP IS SITUATED ON A TAHSIL BOUNDRY STONE PILLAR, DHADUA GAJAN VILLAGE
LALIT PUR	24.693047	78.407458	U.P.	LALITPUR	LALITPUR	DISTRICT MAGISTRATE OFFICE	GCP IS SITUATED IN THE CAMPUS OF DISTRICT MAGISTRATE OFFICE, LALITPUR
MUSARDHARA	24.681184	82.882466	U.P.	SONBHADRA	GHORAWAL	MIDDLE SCHOOL	GCP IS SITUATED IN THE PREMISES OF MIDDLE SCHOOL, KHAJUROL
NAGRA	25.941165	83.881445	U.P.	BALLIA	RASRA	VILLAGE TRI-JUNCTION PILLAR	GCP IS SITUATED AT VILLAGE TRI-JUNCTION PILLAR, URAINI, RAIKWA & NABABGANJ
NIBUA RAI GANJ	27.086388	83.899018	U.P.	KUSHI NAGAR	PADRAUNA	DHARAMPUR VILLAGE	GCP IS SITUATED AT DHARAMPUR VILLAGE
PAHARGAON	25.876136	79.066546	U.P.	JALAUN	KONCH	PAHARGARH	GCP IS SITUATED ON ROCK, NE OF HILL, PAHARGARH
RANIJOT	27.000836	82.349497	U.P.	GONDA	MANAKAPUR	PREMIGHAN INTER COLLEGE	GCP IS SITUATED IN THE CAMPUS OF PREMIGHAN INTER COLLEGE, MUSKANWA
SALEMPUR	26.341127	83.880035	U.P.	DEORIA	SLALEMPUR	NAV YUVAK UCHATTAR MADHYAMIC VIDHYALAYA	GCP IS SITUATED IN THE COMPUND OF NAV YUVAK UCHHATTAR MADHYAHMIC VIDHYALAYA, PURAINA
SANDILA	27.025798	80.606487	U.P.	HARDOI	SANDILA	AGRICULTURE MANDI SAMITI	GCP IS SITUATED IN THE CAMPUS OF AGRICULTURE MANDI SAMITI, SANDILA
SYARI	25.32685	79.108835	U.P.	JHANSHI	MAU RANIPUR	HILL TOP, SYARI	GCP IS SITUATED ON HILL TOP, NEAR SYARI VILLAGE
VARANASI	25.345877	82.978446	U.P.	VARANASI	VARANASI	CIRCUIT HOUSE	GCP IS SITUATED IN THE CAMPUS OF CIRCUIT HOUSE, VARANASI
AKBARPUR	26.436652	82.592211	U.P.	AMBEDKAR NAGAR	AKBARPUR	KHIDARPUR VILLAGE	GCP IS SITUATED AT VILLAGE TRI-JUNCTION PILLAR LOCATED NEAR KHIDARPUR VILLAGE
BHADOHI	25.447195	82.556784	U.P.	SANT RAVIDAS NAGAR	BHADOHI	PURV MADHYAMIC (GIRLS) VIDHYALAYA	GCP IS SITUATED IN THE CAMPUS OF PURV MADHYMIC (GIRLS) VIDHYALAYA, BHADOHI
BIKAPUR	26.61491	82.134185	U.P.	FAIZABAD	BIKAPUR	VILLAGE TRI-JUNCTION PILLAR	GCP IS SITUATED AT VILLAGE TRI-JUNCTION PILLAR NEAR CHANDPUR VILLAGE
CHARKHARI	25.313421	79.932739	U.P.	MAHOBA	MAHOBA	DARHAT VILLAGE	GCP IS SITUATED ON ROCKY HILL NEAR BINDRVASHNI MATA TEMPLE, DARHAT VILLAGE
JHANSI	25.453908	78.561049	U.P.	JHANSI	JHANSI	CIRCUIT HOUSE	GCP IS SITUATED IN THE CAMPUS OF CIRCUIT HOUSE, JHANSI

MANIKPUR	25.075824	81.209343	U.P.	CHITRAKOOT	KARWI	GOVT. HOSPITAL	GCP IS SITUATED ON THE ROOF OF GOVT.HOSPITAL BUILDING, UNCHA DHI VILLAGE
MATI AKBARPUR	26.342934	79.967498	U.P.	KANPUR DEHAT	AKBARPUR	JUNIOR HIGH SCHOOL, MATI AKBARPUR	GCP IS SITUATED IN THE COMPUND OF JUNIOR HIGH SCHOOL, MATI AKBARPUR
PHULPUR	25.524163	82.030474	U.P.	ALLAHABAD	PHULPUR	VILLAGE TRI-JUNCTION PILLAR	GCP IS SITUATED AT VILLAGE TRI-JUNCTION PILLAR, BIGHAIYA, GIRDHARPUR & BABUGANJ, JHANJRI
ETAWAH	26.786934	79.0136	U.P.	ETAWAH	ETAWAH	TAHSIL OFFICE	GCP IS SITUATED IN THE CAMPUS OF TAHSIL OFFICE, ETAWAH
RAMSENHIGHAT	26.801054	81.49091	U.P.	BARABANKI	RAMSHNIGHAT	VILLAGE TRI-JUNCTION PILLAR	GCP IS SITUATED AT VILLAGE TRI-JUNCTION PILLAR, MUSEPUR, ITAUHA & PHUNALI THUKRAN
PHEENA	29.078257	78.349645	U.P.	BIJNAUR	CHANDPUR	PUBLIC ARYA INTER COLLEGE	GCP is situated in the compound of Public Arya Inter College, Pheena

U.P.:-UTTAR PRADESH

U.K.:-UTTARAKHAND

The locations listed above are only tentative and subject to change.



Tentative Location of Receiver Stations

PART 3 – CONTRACT

SECTION VIII – GENERAL CONDITIONS OF CONTRACT

Section VIII. General Conditions of Contract

Table of Clauses

1.	DEFINITIONS.....	101
2.	CONTRACT DOCUMENTS.....	102
3.	CORRUPT & FRAUDULENT PRACTICES.....	102
4.	INTERPRETATION.....	102
5.	LANGUAGE.....	103
6.	JOINT VENTURE, CONSORTIUM OR ASSOCIATION-Deleted.....	103
7.	ELIGIBILITY.....	103
8.	NOTICES.....	104
9.	GOVERNING LAW.....	104
10.	SETTLEMENT OF DISPUTES.....	104
11.	INSPECTIONS AND AUDIT BY THE BANK.....	105
12.	SCOPE OF SUPPLY.....	105
13.	DELIVERY AND DOCUMENTS.....	105
14.	SUPPLIER'S RESPONSIBILITIES.....	105
15.	CONTRACT PRICE.....	105
16.	TERMS OF PAYMENT.....	105
17.	TAXES AND DUTIES.....	106
18.	PERFORMANCE SECURITY.....	106
19.	COPYRIGHT.....	106
20.	CONFIDENTIAL INFORMATION.....	106
21.	SUBCONTRACTING.....	107
22.	SPECIFICATIONS AND STANDARDS.....	108
23.	PACKING AND DOCUMENTS.....	108
24.	INSURANCE.....	108
25.	TRANSPORTATION & INCIDENTAL SERVICES.....	108
26.	INSPECTIONS AND TESTS.....	109
27.	LIQUIDATED DAMAGES.....	110
28.	WARRANTY.....	111
29.	PATENT INDEMNITY.....	111
30.	LIMITATION OF LIABILITY.....	113
31.	CHANGE IN LAWS AND REGULATIONS.....	113
32.	FORCE MAJEURE.....	113
33.	CHANGE ORDERS AND CONTRACT AMENDMENTS.....	114
34.	EXTENSIONS OF TIME.....	114
35.	TERMINATION.....	114
36.	ASSIGNMENT.....	116

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” mean 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 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 Condition 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 arbitrage 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-eight (28) 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**
- 25.1 Unless otherwise specified in the SCC, responsibility for arranging transportation of the Goods shall be in accordance

Services

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.¹² 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;¹³
 - (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;¹⁴
 - (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;¹⁵
 - (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;¹⁶

¹² In this context, any action to influence the procurement process or contract execution for undue advantage is improper.

¹³ 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.

¹⁴ 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.

¹⁵ 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.

- (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,¹⁷ 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 nominated¹⁸;
- (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

¹⁶ For the purpose of this sub-paragraph, "party" refers to a participant in the procurement process or contract execution.

¹⁷ 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.

¹⁸ 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.

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.

GCC 1.1(j)	The Purchaser is: Project Director, NHP NGDC, Survey of India Post Box: 200, Block No. 6, Hathibarkala Estate Dehradun,(UttaraKhand), India 248001. Telephone: +91-135-2747623, +91-135-2745566 Facsimile number: +91-135-2747623
GCC 1.1 (o)	The Project Sites/Final Destinations are: <i>In the states of Uttarakhand and Uttar Pradesh</i>
GCC 4.2 (a)	The meaning of the trade terms shall be as prescribed by Incoterms.
GCC 4.2 (b)	The version edition of Incoterms shall be 2010
GCC 8.1	For notices , the Purchaser's address shall be: Director, Geodetic & Research Branch, 17-E.C. Road, Dehra Dun (U.K.) -248001, Tele: +91-135-2654528.Fax: +91-135-2656759 Email: grb.soi@gov.in
GCC 10.2	<p>Settlement of Disputes</p> <p>The dispute settlement mechanism to be applied shall be as follows:</p> <p>(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) or any other person nominated by him whose decision will be final binding. The venue of arbitrations shall be New Delhi, India.</p> <p>(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</p>

	<p>case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the the President of the Institution of Engineers (India)or any other person nominated by him whose decision will be final binding.</p> <p>(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 President of the Institution of Engineers (India)or any other person nominated by himin both in cases of the Foreign supplier as well as Indian supplier, shall appoint the arbitrator. A certified copy of such order making such an appointment shall be furnished to each of the parties.</p> <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 the President of the Institution of Engineers (India)or any other person nominated by him.</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>
GCC 12.1 and 25.2	The scope of supply for the Goods and Related Services to be supplied shall be as specified below: The scope of the supply including the related services is as given in Schedule of Requirements.
GCC 13.1	<p>Details of Shipping and other Documents to be furnished by the Supplier are given below:</p> <p>Upon delivery of the goods to the transporter/consignee, the supplier shall notify the purchaser and mail the following documents to the Purchaser:</p> <p>(i) TWO Copies of the Supplier invoice showing contract number, goods description, quantity, unit price, total amount;</p> <p>(ii) Delivery note, Railway receipt, or Road consignment</p>

	<p>note or equivalent transport document or acknowledgement of receipt of goods from the Consignee;</p> <p>(iii) TWO Copies of packing list identifying contents of each package;</p> <p>(iv) Insurance certificate;</p> <p>(v) Manufacturer's/Supplier's warranty certificate;</p> <p>(vi) Inspection certificate issued by the nominated inspection agency, and the Supplier's factory inspection report; and</p> <p>(vii) Certificate of origin.</p> <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 14.1</p>	<ol style="list-style-type: none"> 1) Providing Electricity Connection at receiver station and Communication line (Primary/ADSL/Broadband connection and Secondary /GSM/CDMA both) at receiver station and control center shall be responsibility of contractor. 2) Monthly Electricity bills and Bills for Communication lines (Primary /ADSL/Broadband connection and Secondary /GSM/CDMA both) at receiver stations shall be borne by contractor for complete duration of contract period. 3) Rectification of any fault in Electricity/Communication line connection through appropriate authority shall be responsibility of contractor for complete duration of contract period. Any expenditure necessary for it shall be borne by contractor. Acceptable downtime for carrying out necessary rectification/ maintenance shall be as per GCC 28.5. 4) Comprehensive insurance of equipments installed at each receiver station against fire, theft, vandalism etc from the date of installation till completion of contractual period. Insurance will be taken by Supplier in the name of purchaser and to be included in Price schedule.
<p>GCC 15.1</p>	<p>The Contract Price is</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> <ol style="list-style-type: none"> (i) Advance payment of 10 % of total contract price shall be paid to supplier on submission of irrevocable Bank Guarantee valid for 1 year from date of signing contract, of an equivalent amount from a nationalized bank or all Commercial scheduled bank in the prescribed format.. Full amount of advance payment will be adjusted at the payment stage (ii) given below (ii) <i>On Delivery of goods and installation and commissioning of Control Centre and at least 50 receiver Stations,:</i> Thirty Five(35) % of the total contract price including total GST amount charged in Invoice against <i>above said works</i> shall be paid within

	<p>thirty (30) days on completion of above said Work against a acceptance report from purchaser or another form acceptable to the Purchaser; advance payment made in accordance with point (i), shall be fully adjusted while releasing payment at this stage.And</p> <p>(iii) <i>On Final Acceptance:</i> Twenty Five (25) % of the Contract Price including total GST amount charged in Invoice against <i>above said works</i> shall be paid within thirty (30) days on submission of the documents specified in Clause 13 of SCC after delivery of all the equipment's, its successful installation and Acceptance Certificate issued by the Purchaser's representative in the proforma given in Section VII - item 6.</p> <p>(iv) On completion of each year of comprehensive operational and maintenance period: (Forty) 40 % of the Contract Price including total GST amount charged in Invoice against operation and Maintenance shall be paid on pro rata basis annually @ 8% per year for 5 years within thirty (30 days) on submission of certificate of successful completion of respective operation and Maintenance year wise issued by purchaser.</p> <p>(c) "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".</p> <p>(d) (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 VIII. 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 final adjustment of advance payment in subsequent payment stages.</p>
GCC 16.5	<p>The payment-delay period after which the Purchaser shall pay interest to the supplier shall be 30 days.</p> <p>The interest rate that shall be applied is 4%.</p>
GCC 17	<p>In the case of Excise duty waiver, the purchaser will issue only the certificates in terms of the Central Excise notification as per information given by supplier in form at serial no.7 of 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</p>

	<p>contract value, valid up to 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	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.
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 28 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: As per GCC Clause 25.2
GCC 26.1	The inspections and tests shall be:: As stated in Sub-Section 5 of schedule of requirements.
GCC 26.2	The Inspections and tests shall be conducted at: sites of Final Delivery As specified in the BDS corresponding to clause 14.8 of ITB and <i>sub-section 7 of Section VII Schedule of Requirement.</i>
GCC 27.1	The liquidated damages shall be: 0.01% of contract price per day or part thereof.
GCC 27.2	The maximum amount of liquidated damages shall be: 10% of the contract price.
GCC 28.3	<p>The period of validity of the Warranty shall be: 5 years</p> <p>For purposes of the Warranty, the places of final destinations shall be:</p> <p>Director, Geodetic & Research Branch, 17-E.C. Road, Dehra Dun (U.K.) -248001, Tele: +91-135-2654528.Fax: +91-135-2656759 Email: grb.soi@gov.in</p>

	<p>Email: pd.nhp.soi@gov.in</p> <p>In partial modification of the provisions, the warranty period shall be 5 years from date of acceptance of the Goods and successful operation. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the Contract. If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall, make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with SCC 4,</p>
GCC 28.5	<p>The period for repair or replacement shall be:</p> <p>a) For Control Center 24 hours from time of reporting. If repair and replacement not be completed within 24 hours, penalty of Rs25000/- per day shall be charged over period in which control centre remains un-operational.</p> <p>b) For receiver station 5 days from time of reporting. If repair and replacement not be completed within 5 days, penalty of Rs 5000/- per day per station shall be charged over period in which receiver station remains un-operational.</p>
GCC 31.1	<p>This clause will apply only to variations in GST 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.</p>

SECTION X – CONTRACT FORMS

Table of Forms

1. LETTER OF ACCEPTANCE	1277
2. CONTRACT AGREEMENT	1288
3. PERFORMANCE SECURITY	130
4. BANK GUARANTEE FOR ADVANCE PAYMENT	132

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 28 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 the Contract currency(ies)]* (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) The Supplier’s letter of Bid and original completed Schedules including Price Schedules
 - (d) Special Conditions of Contract
 - (e) General Conditions of Contract
 - (f) Technical Requirements (including Schedule of Requirements and Technical Specifications)
 - (g) *[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 Supplier¹⁹]* (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 guarantee²⁰]* _____ *[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.

¹⁹ *In the case of a JV, insert the name of the Joint Venture*

²⁰ *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 obligations²¹, 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.

²¹ 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 Supplier²²]* (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 guarantee²³]* _____ *[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.

²²In the case of a JV, insert the name of the Joint Venture

²³An 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.