



**Ministry of Road Transport & Highways,  
(Govt. of India)**

**National Competitive Bid**  
(Through CPP Portal, E-Tendering Mode)

**For**

**“Construction and Installation of prefabricated Office cum Residence in the States of Arunachal Pradesh, Sikkim & Uttarakhand in high altitude remote areas.”**

**November, 2020**

**National Highways & Infrastructure Development Corporation Ltd**  
3rd floor, PTI Building, 4-Parliament Street,  
New Delhi – 110001

## CONTENTS

---

### Volume - I

SECTION -I	:	NOTICE INVITING BID
SECTION-II	:	INSTRUCTIONS TO BIDDERS& APPENDIX TO BID
SECTION-III	:	QUALIFICATION INFORMATION
SECTION-IV	:	FORMS OFBANK GUARANTEES, LOA & AGREEMENT
SECTION-V	:	CONDITIONS OF CONTRACT & CONTRACT DATA
SECTION-VI	:	SCOPE OF WORK, TECHNICAL SPECIFICATIONS AND DRAWINGS
SECTION-VII	:	DEFECT LIABILITY AND ANNUAL MAINTENANCE

---

---

**SECTION-I**  
**NOTICE INVITING BID**  
**(E-TENDERING MODE ONLY)**

---

---

**राष्ट्रीय राजमार्ग एवं अवसंरचना विकास निगम लिमिटेड**  
**National Highways & Infrastructure Development Corporation Limited**  
MINISTRY OF ROAD TRANSPORT & HIGHWAYS,  
GOVT. OF INDIA

**Notice Inviting Bid**

(Online e-tender through Central Public Procurement Portal)

No: NHIDCL/MHA/BIP/Pkg-I/2020-21

19.11.2020

RFP for the work of “Construction and Installation of prefabricated Office cum Residence in the States of Arunachal Pradesh, Sikkim & Uttarakhand in high altitude remote areas”.

The Ministry of Road Transport & Highways through National Highways & Infrastructure Development Corporation Limited (NHIDCL) is engaged in the development of National Highways and as part of this endeavor, it has been decided to undertake “Construction and Installation of prefabricated Office cum Residence in the States of Arunachal Pradesh, Sikkim & Uttarakhand in high altitude remote areas.”

The National Highways & Infrastructure Development Corporation Limited represented by its Managing Director now invites bids from eligible contractors for the following project:

State/UT	Description of the work	Number of Offices to be constructed	Estimated Cost excluding GST (Rs. in Crore)	Completion period
Arunachal Pradesh , Sikkim & Uttarakhand	“Construction and Installation of prefabricated Office cum Residence in the States of Arunachal Pradesh, Sikkim & Uttarakhand in high altitude remote areas”.	19	25.33	09 months

The complete BID document can be viewed / downloaded from official portal of the CPPP website <https://eprocure.gov.in/eprocure/app> from 19/11/2020 to 09/12/2020 (upto 1000 hrs IST). Bidder must submit its Financial bid and Technical Bid at <https://eprocure.gov.in/eprocure/app> on or before 09/12/2020 (up to 1100 hrs IST). Bids received online shall be opened on 10/12/2020 (at 1130 hrs IST).

Bid through any other mode shall not be entertained. However, Bid Security, Document fee, Power of Attorney etc. shall be submitted physically by the Bidder on or before the date mentioned in appendix to ITB. Please note that the NHIDCL reserves the right to accept or reject all or any of the BIDs without assigning any reason whatsoever.

**(Ashok Kumar Singh),  
General Manager (Tech.)  
National Highways & Infrastructure Development Corporation Ltd.  
Second Floor, PTI Building, 4 Sansad Marg.  
New Delhi-110001  
Phone: +91-11-23461684  
e-mail : (gm.infra@nhidcl.com)  
e-mail :(sanjeev.malik@gov.in)**

(SECTION-II)

INSTRUCTION TO BIDDERS & APPENDIX TO BID

**Section II: Instructions to Bidders**

Table of Clauses

Clause	A. General	Clause	D. Submission of Bids
1	Scope of Bid	20	Deadline for Submission of Bids
2	Source of Funds	21	Late Bids
3	Eligible Bidders	22	Modification & Withdrawal of Bids
4	Qualification of the Bidder		<b>E. Bid Opening</b>
5	One Bid per Bidder	23	Bid Opening
6	Cost of Bidding	24	Process to be Confidential
7	Site Visit	25	Clarification of Bids and Contracting the Employer
	<b>B. Bidding Documents and Evaluation</b>	26	Examination of bids and Determination of Responsiveness
8	Content of Bidding Documents	27	Correction of Errors
9	Clarification of Bidding Documents	28	Evaluation and Comparison of Bids
10	Amendment of Bidding Documents	29	Preference for Domestic Bidders
	<b>C. Preparation of Bids</b>		<b>F. Award of Contract</b>
11	Language of Bid	30	Award Criteria
12	Documents Comprising the Bid	31	Employer's Right to Accept any Bid and to Reject any or all Bids
13	Bid Prices	32	Notification of Award
14	Currencies of Bid and Payment	33	Performance Security
15	Bid Validity	34	Advances
16	Bid Security	35	Corrupt or Fraudulent Practices
17	Alternative Proposals by Bidders		
18	Format and Signing of Bid		
19	Sealing and Marking of Bids		

## Section -II

### Instructions to Bidders (ITB)

#### A. General

#### 1. Scope of Bid

- 1.1 The Employer (as defined in the Appendix to ITB) invites bids for “as described in these documents and referred to as “the works”. The name and identification number of the works is provided in the Appendix to ITB.
- 1.2 The successful Bidder will be expected to complete the Works by the intended Completion Date specified in the Contract Data (Part I General Conditions of Contract).
- 1.3 Throughout these bidding documents, the terms “bid” and “tender” and their derivatives (bidder/tenderer, bid/tender, bidding/tendering, etc.) are synonymous.

#### 2. Source of Funds

- 2.1 The expenditure on this project will be provided by MoHA to the National Highways & Infrastructure Development Corporation Limited (NHIDCL).

#### 3. Eligible Bidders

- 3.1 This Invitation for Bids is open to all bidders as defined in the Appendix to ITB.
- 3.2 Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices by the Central Government, the State Government or any public undertaking, autonomous body, authority by whatever name called under the Central or the State Government.

#### 4. Qualification of the Bidder

- 4.1 The bid is open to person/entity from India only and entity/firm/company having any share of the person resident outside India or is controlled by persons resident outside India, is not eligible for the bid.
- 4.2 All bidders shall include the following information and documents with their bids in Section-3, Qualification Information unless otherwise stated in the Appendix to ITB:
  - a) Scanned copy of original documents defining the constitution or legal status, ownership details, place of registration, and principal place of business; written power of attorney of the signatory of the Bid to commit the Bidder;
  - b) Total monetary value of civil engineering construction works performed for each of the last three years;
  - c) Scanned copy of Experience certificate in works of a similar nature and size for each of the last Seven years with certificates from the concerned officer of the minimum rank of Executive Engineer or equivalent;
  - d) Scanned copy of certificate from Chartered Accountant as a proof of turnover for the past three years; (as per format enclosed Annexure-B)
  - e) Scanned copy of certificate from Chartered Accountant as a proof of Net Worth for the latest audited financial year;(as per format enclosed Annexure-A)

- f) Scanned copy of Information regarding any litigation or arbitration during the last five years in which the Bidder is involved, the parties concerned, the disputed amount, and the matter;
- g) Scanned copy of the affidavit on the Stamp Paper, duly attested from the Notary Public, that the information furnished with the bid documents is correct in all respects.
- h) Scanned copy of Undertakings as mentioned in Section III Cl.2.
- i) Any other information/documents required to be completed and submitted by bidders, as specified in the Appendix to ITB & Section III, and to be uploaded by bidder on e-tender portal
- j) Scanned copy of proof of payment for cost of tender documents
- k) Scanned copy of Bid Security Bank Guarantee
- l) A detail Technical proposal of the said project which includes the following detail :
  - Detailed structural design and drawing of work.
  - Structural form, materials and structural principles.
  - Methodology of work.
  - Details of various components such as water supply, sanitary system, flooring, Panels used in the construction work, type of foundation proposed,
  - Details of Factories pre fabricated LGSF structures.
  - Location of the fabrication yard / factory.

4.3 Bids from joint venture are not allowed.

4.4 A. To qualify for award of the contract, each bidder in its name should have the following; -

- a) ***achieved an average annual financial turnover (in all classes of civil engineering construction/fabrication works only) equivalent to 40% of estimated cost mentioned in NIB during last three year ending 31<sup>st</sup> March of the previous financial years duly certified by Chartered Accountant and shall have a minimum Net Worth of 5% (five percent) of the Estimated Cost at the close of the preceding financial year***
- b) Satisfactorily completed (not less than 90% of contract value), as a prime contractor (or as a nominated subcontractor duly approved by Employer, provided further that all other qualification criteria are satisfied) similar works during last **Seven** years ending last day of month previous to the one in which bids are invited should be either of the following:
  - i. One similar completed work\*\* costing not less than amount equals to **80%** of **estimated cost mentioned in NIB.**
  - or
  - ii. Two similar completed works\*\* costing not less than amount equals to **60%** of **estimated cost mentioned in NIB.**
  - or
  - iii. Three similar completed works\*\* costing not less than amount equals to **40%** of **estimated cost mentioned in NIB.**

**(\*\*The “similar work”: means Construction of prefabricated/fabricated Steel Framed structure)**

(Escalation factor as specified in the appendix to ITB shall be used to bring the value of such completed works at the level of financial year i.e.2020-21)

Year before	Multiplying Factor
One (1) (2019-20)	1.00
Two(2) (2018-19)	1.05
Three(3) (2017-18)	1.10
Four(4) (2016-17)	1.15
Five(5) (2015-16)	1.20
<b>Six(6) (2014-15)</b>	<b>1.25</b>
<b>Seven (7) (2013-14)</b>	<b>1.30</b>

#### 4.4 B

a) Each bidder must produce:

- (i) An affidavit on a Stamp Paper, duly attested from the Notary Public, that the information furnished with the bid documents is correct in all respects; and
- (ii) Such other certificates as defined in the Appendix to ITB.
- (iii) Failure to submit the certificates/documents as specified above or in Appendix to ITB shall make the bid **non-responsive**.

4.5 Sub-Contractors' experience and resources shall not be taken into account in determining the bidder's compliance with the qualifying criteria, however, the bidder may nominate one sub-contractor having fabrication facilities with CNC machine upto 50% of the Contract Price.

4.6 Bidder who meets the minimum qualification criteria will be qualified only if their available bid capacity is equal to the total estimated cost as mentioned in NIB. The available bid capacity will be calculated as under :

$$\text{Assessed available Bid capacity} = (A * 2.5 - B)$$

Where

A= Maximum value of civil engineering works executed in any one year during the last **Seven** years (updated to the price level of the year indicated in Appendix) taking into account the competed as well as works in progress.

B= Value (updated to the price level of the year indicated in table below under note) of existing commitments, works **for which Appointed Date/Commencement Date has been declared or on-going works** to be completed during the period of completion of the works for which bid is invited. For the Sake of clarification, it is mentioned that works for which LOA has been issued but Appointed Date/Commencement Date not declared as on Bid Due Date shall not be considered while calculating value of B.

*Note: The Statement showing the value of all existing commitments, works **for which Appointed Date/Commencement Date has been declared or on-going works** as well as the stipulated period of completion remaining for each of the works listed should certified from the bidder. For any wrong certificate the bidders shall be debarred for a period of 2 years--- The factors for updation of the value of civil engineering works to the price level of the year are indicated as under:*

Year	Year-1	Year-2	Year-3	Year-4	Year-5
Updation factor	1.00	1.05	1.10	1.15	1.20

- 4.7 Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:
- (i) made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and/or
  - (ii) Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc. or debarring by Government agencies.
  - (iii) Tampered the bid document in any manner.

## 5. One Bid per Bidder

- 5.1 Each Bidder shall submit only one Bid for the work. A Bidder who submits more than one Bid will cause the proposals with the Bidder's participation to be **disqualified**.

## 6. Cost of Bidding

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

## 7. Site Visit and Site Location

- 7.1 The Bidder, at his own cost, responsibility and risk, is encouraged to visit, examine and familiarise himself with the Site of Works and its surroundings including source of earth, water, road aggregates etc. and obtain all information that may be necessary for preparing the Bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense. He may contact the person whose contact details are given in the Appendix to ITB.
- 7.2 The district-wise site locations for constructing the offices are given below:

S.No.	State	District	No. of offices
1.	Sikkim	North Sikkim	02
		East Sikkim	01
2.	Arunachal Pradesh	Tawang	05
		Upper Siang	03
		Siang	01
3.	Uttarakhand	Uttarkashi	01
		Chamoli	02
		Pithoragarh	04
<b>Total</b>			<b>19</b>

The exact location of the site will be given only to the successful bidder and accordingly, the bidder should include the entire transportation cost upto the **farthest** point of the district.

## B. Bidding Documents

### 8. Content of Bidding Documents

- 8.1 The set of bidding documents comprises the documents listed below and addenda issued in accordance with Clause 10:

### Volume- I:-

- i. Notice Inviting Tender
- ii. Instructions to Bidders & Appendix to Bid
- iii. Qualification Information
- iv. Forms of Bank Guarantee, Agreement & LOA
- v. Conditions of Contract & Contract Data
- vi. Scope of work, Technical specifications and drawings
- vii. Defect liability and Annual Maintenance

### Volume - II:-

#### Bill of Quantities

***Bidders required to quote a single percentage above/below the overall estimated cost. This percentage would be applicable for all the items of work in the contract for working out the rates for each item of work.***

- 8.2 The bidder is expected to examine and access the site locations and include all transportation and miscellaneous cost while quoting the bid.
- 8.3 The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms, and specifications, bill of quantities, forms and drawings in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. Pursuant to clause 26 hereof, bids, which are not substantially responsive to the requirements of the Bid Documents, shall be **rejected**.

#### **9. Clarification of Bidding Documents**

- 9.1 A prospective Bidder requiring any clarification on the bid document may notify the Employer in writing or by e-mail (scanned copy) at the Employer's address indicated in the Notice Inviting Tender. The Employer will respond to any request for clarification received earlier than 10 days prior to the deadline for submission of bids. Copies of the Employer's response will be hosted on website or which are required in the opinion of the Employer including a description of the enquiry, but without identifying its source.

#### **10. Amendment of Bidding Documents**

- 10.1 Before the deadline for submission of bids, the Employer may modify the bidding documents by issuing addenda.
- 10.2 Any addendum thus issued shall be part of the bidding documents and shall be hosted on the NHIDCL website/e-procurement portal only.
- 10.3 To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer shall extend, as necessary, the deadline for submission of bids, in accordance with Clause 20.2.

#### **C. Preparation of Bids**

#### **11. Language of Bid**

11.1 All documents relating to the Bid shall be in the language specified in the Appendix to ITB.

## 12. Documents Comprising the Bid

12.1 The e-bid submitted by the bidder shall be in two separate parts. Part-I This shall be named Technical Bid and shall comprise of information submitted online as per Cl. 4.2 in Sec-II. Part-II It shall be named Financial Bid and shall comprise of (i) Priced bill of quantities.

### 12.2 Documents comprising Technical and Financial BID

The Bidder shall first upload all the project details, net worth details, turnover details, bridge and tunnel details and all other details required in this RFP for technical qualification. The Bidder shall ensure that all the details are updated as on the due date of submission of this bid.

The Bidder shall then apply for the RFP on the CPPP website <https://eprocure.gov.in/eprocure/app> by submitting the documents mentioned below along with the supporting documents which shall comprise of the Technical BID on the CPPP portal :

#### Technical Bid

- (a) Power of Attorney of the signatory of the bidder to commit BID;
- (b) Copy of online receipt towards payment of Bid Security/EMD of required amount;
- (c) Copy of online receipt towards payment of cost of Bid document of required amount;
- (d) Affidavit duly notarized and undertakings as per Section III;
- (e) Annual financial turnover (in all classes of civil engineering construction & fabrication works only) during last three years ending 31<sup>st</sup> March of the previous financial year duly certified by Chartered Accountant. (as per Format Annexure-B);
- (f) Net worth certificate duly certified by Chartered Accountant. (as per Format Annexure-A);

#### Financial Bid

- (g) To be submitted online on Gol e-tendering portal (<https://eprocure.gov.in/cppp>) on or before Schedule time given in Data Sheet.

12.2.2 The Bidder shall submit the following documents physically by date and time given in Appendix to ITB :

- (a) Original Power of Attorney of the signatory of the bidder to commit BID;
- (b) Copy of online receipt towards payment of Bid Security/EMD of required amount;
- (c) Copy of online receipt towards payment of cost of Bid document of required amount;

(d) Original Affidavit duly notarized and undertakings as per Section III;

(e) Annual financial turnover (in all classes of civil engineering construction and fabrication works only) during last three years ending 31<sup>st</sup> March of the previous financial year duly certified by Chartered Accountant. (as per Format Annexure-B);

(f) Net worth certificate duly certified by Chartered Accountant. (as per Format Annexure-A);

12.2.3 The documents listed at clause 12.2.2 shall be placed in an envelope, which shall be sealed. The envelope shall clearly bear the identification "BID for (Name of the Project)" and shall clearly indicate the name and address of the Bidder. In addition, the BID Due Date should be indicated on the right hand top corner of the envelope.

12.2.4 The envelope shall be addressed to the officer designated whose Name and Address is given in the Bid document.

12.2.5 If the envelope is not sealed and marked as instructed above, the Authority assumes no responsibility for the misplacement or premature opening of the contents of the BID submitted and consequent losses, if any, suffered by the Bidder.

12.2.6 BIDs submitted by fax, telex, telegram or e-mail shall not be entertained and shall be summarily rejected.

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

Section	Particulars
1	Notice Inviting Bid
2	Instruction to the bidders
3	Conditions of Contract
4	Contract Data
5	Scope of work, Technical specifications and drawings
6	Defect liability and Annual Maintenance

### 13. Bid Prices

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

13.2 The bidder shall quote bid prices on appropriate format enclosed as part of tender document on <https://eprocure.gov.in/eprocure/app>. The Bidder is required to quote a single percentage above/below the overall estimated amount. This percentage would be applicable for all the items of work in the contract for working out the rates for each item of work.

13.3 The bidder is required to quote a single percentage above/ below the estimated amount (excluding GST). GST at the existing rate will be paid to the contractor along with the each bill, however, the contractor has to submit the proof of GST payment to government before next bill. In case, of non submission of GST proof, the same will be recovered in the next bill.

13.4 Based on the percentage quoted, the rates and prices shall be fixed for the duration of the Contract and shall not be subject to adjustment.

#### 14. Currencies of Bid and Payment

14.1 The price shall be quoted by the bidder entirely in Indian Rupees. All payments shall be made in Indian Rupees.

#### 15. Bid Validity & Bid Document Cost

15.1 Bids shall remain valid for a period of **120 days** after the deadline date for bid submission specified in Clause 20.

15.2 In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the bidders may extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by e-mail. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his bid security for a period of the extension, and in compliance with Clause 16 in all respects.

15.3 The Bidder is required to pay a non-refundable fee as mentioned in Appendix to ITB towards cost of Bid Document through RTGS/ NEFT/ other online mode to the NHIDCL's designated bank account. Details of designated bank account are as under:

Sr.No.	Particulars	Details
1.	Name of Beneficiary	MD-NHIDCL
2.	Beneficiary Bank Account No.	90621010002610
3.	Beneficiary Bank Branch Name and Address	Canara Bank (erstwhile Syndicate Bank), Transport Bhawan, 1st Parliament Street, NewDelhi110001
4.	Beneficiary Bank Branch IFSC	SYNB0009062
5.	SWIFT Code (For Foreign Bidders)	SYNBINBB126

The Bidder must upload **Copy of the online payment receipt (UTR/ Reference No./Transaction ID)** towards payment of cost of Bid document.

15.4 Any bid not accompanied by Bid document fee/cost, shall be rejected by the Employer as **non-responsive**.

#### 16. Bid Security

16.1 The Bidder shall furnish, as part of the Bid, Bid Security, in the amount as specified in the Appendix to ITB.

16.2 The Bidder is required to submit along with its bids, the Bid Security as mentioned in Appendix to ITB through RTGS/ NEFT/ other online mode to the NHIDCL's designated bank account, details of which is given below:

Sr.No.	Particulars	Details
1.	Name of Beneficiary	MD-NHIDCL
2.	Beneficiary Bank Account No.	90621010002659
3.	Beneficiary Bank Branch Name and Address	Canara Bank (erstwhile Syndicate Bank), Transport Bhawan, 1st Parliament Street, NewDelhi110001
4.	Beneficiary Bank Branch IFSC	SYNB0009062

5.	SWIFT Code (For Foreign Bidders)	SYNBINBB126
----	----------------------------------	-------------

The Bidder must upload **Copy of online Receipt (Indicating Reference No./Transaction ID)** towards payment Bid Security.

- 16.3 Any bid not accompanied by an acceptable Bid Security, shall be rejected by the Employer as **non-responsive**.
- 16.4 The Bid Security of unsuccessful bidders will be returned **within 28 days** of the end of the Bid validity period specified in Sub-Clause 15.1.
- 16.5 The Bid Security of the successful Bidder will be converted into Performance Security. However, the Bid Security can be refunded if the successful bidder submits the whole of the Performance Security in the form of Bank Guarantee.
- 16.6 **The Bid Security will be forfeited:**
- a) if the Bidder withdraws the Bid after its submission during the period of Bid validity;
  - b) if the Bidder does not accept the correction of the bid price, pursuant to Clause 27; or
  - c) in the case of a successful Bidder, if the Bidder fails within the specified time limit to
    - i. **Sign the Agreement;** and/or
    - ii. **Furnish the required Performance Security** and/or
    - iii. **Submit the original documents as specified in Clause 12.2**

**17. Alternative Proposals by Bidders**

- 17.1 Bidder shall submit offers that fully comply with the requirement of the bidding document including conditions of contract, conditional offer or alternate offer will not be considered further in the process of tender evaluation and the bid will be declared **non-responsive**.

**18. Format and Signing of Bid**

- 18.1 The Bidder shall submit e-bid comprising of the documents as described in Clause 12 of the ITB.

**D. Submission of Bids**

**19. Marking of Bids**

- 19.1 The documents to be submitted in Online Mode should be as per clause 12.2 of ITB

**20. Schedule for Submission of Bids**

- 20.1 Complete E-Bid to be uploaded on e-procurement portal before due date & time.
- 20.2 The Employer may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will then be subject to the new deadline.
- 20.3 The detailed schedule for submission of bid shall be, as given in Appendix to ITB.

**21. Deleted**

**22. Modification and Withdrawal of Bids**

22.1 Bidders may modify or withdraw their e-bids before the deadline prescribed in Clause 20.

22.2 No bid may be modified after the deadline for submission of Bids.

22.3 Withdrawal of a Bid between the deadline for submission of bids and the expiration of the original period of bid validity specified in Clause 15.1 above or as extended pursuant to Clause 15.2 shall result in the forfeiture of the Bid security pursuant to Clause 16.

**E. Bid Opening and Evaluation**

**23. Bid Opening**

Bid opening shall be carried out in two stages. Firstly, 'Technical Bid' of all the bids received shall be opened on the date and time mentioned in the Appendix to ITB. 'Financial Bid' of those bidders whose technical bid has been determined to be substantially responsive shall be opened on the subsequent date through online process of e-tender, which will be notified to such bidders.

23.1 The Employer will open the "Technical Bid" of all the bids received within due date and time, in the presence of the bidders/bidders' representatives who choose to attend at the time, date and place specified in the NIB. In the event of the specified date for the submission of bids being declared a holiday for the Employer, the Bids will be opened at the appointed time and location on the next working day.

23.2 In all other cases, the amount of Bid Security, forms and validity shall be announced. Thereafter, the Employer at the opening as the Employer may consider appropriate, will announce the bidders' names and such other details.

23.3 The Employer will prepare minutes of the Bid opening, including the information disclosed to those present in accordance with Clause 23.1.

**23.4**

i. The bids accompanied with valid bid security will be taken up for evaluation with respect to the Qualification Information and other information furnished in Part I of the bid pursuant to Clause 12.1.

ii. As soon as possible, the Evaluation Committee will finalize the list of responsive bidders whose financial bids are eligible for consideration. However, to assist in the examination, evaluation of technical bids, the Employer may at his discretion, ask any bidder for clarification of his bid, however, no additional documents in support of clarification will be entertained.

23.5 The Employer shall inform the bidders, whose technical bids are found responsive, of the date, time and place of opening of the financial bids. The bidders so informed, or their representative, may attend the meeting of opening of financial bids.

23.6 The financial bids of only the responsive bidders will be opened. The responsive bidders' names, the Bid prices, the total amount of each bid, pursuant to clause 22 and such other details as the Employer may consider appropriate will be announced by the Employer at the time of bid opening.

23.7 The Employer shall prepare the minutes of the opening of the Financial Bids.

**24. Process to be Confidential**

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

**25. Clarification of Bids and Contacting the Employer**

25.1. To assist in the examination, evaluation, and comparison of Bids, the Employer may, at his discretion, ask any Bidder for clarification of his-Bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by email, but no change in the price or substance of the Bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids in accordance with Clause 27.

25.2 Subject to sub-clause 25.1, no Bidder shall contact the Employer on any matter relating to his bid from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Employer, he should do so in writing.

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

**26. Examination of Bids and Determination of Responsiveness**

26.1 During the detailed evaluation of "Technical Bids", the Employer will determine whether each Bid

- (a) meets the eligibility criteria defined in Clauses 3 and 4;
- (b) the required documents uploaded by the bidder are in order; and
- (c) is substantially responsive to the requirements of the bidding documents. During the detailed evaluation of the "Financial Bids", the responsiveness of the bids will be further determined with respect to the remaining bid conditions, i.e., priced bill of quantities, technical specifications and drawings etc.

**27. Correction of Errors.**

27.1 Financial Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors.

27.2 The amount stated in the Financial Bid will be corrected by the Employer for the correction of errors and shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, the Bid will be rejected, and the Bid Security shall be forfeited in accordance with Sub-Clause 16.6(b).

**28. Evaluation and Comparison of Financial Bids.**

28.1 The Employer will evaluate and compare only the bids determined to be substantially responsive in accordance with Clause 26.

- 28.2 In evaluating the bids, the Employer will determine for each Bid the evaluated Bid price by adjusting the Bid price after making any correction for errors pursuant to Clause 27;
- 28.3 **If the Bid of the successful Bidder is seriously unbalanced** then an irrevocable and unconditional guarantee from a Bank should also be submitted in the same form given in Section-IV towards an Additional Performance Security (**the “Additional Performance Security”**) for an amount calculated as under:
- a) If the Bid Price offered by the Selected Bidder is lower than 10% but upto 20% of the estimated Project cost, then the Additional Performance Security shall be calculated @ 20% of the difference in the (i) Estimated Project Cost (as mentioned in RFP)- 10% of the Estimated Project Cost and (ii) the Bid Price offered by the selected Bidder.
  - b) If the Bid Price offered by the Selected Bidder is lower than 20% of the Estimated Project Cost, then the Additional Performance Security shall be calculated @30% of the difference in the (i) Estimated Project Cost (as mentioned in RFP )-10% of the Estimated Project Cost and (ii) the Bid Price offered by the Selected Bidder.
  - c) This Additional Performance Security shall be treated as part of the Performance Security.
- 28.4 A bid, which is quoted unrealistically low and which cannot be substantiated satisfactorily by the bidder, may be rejected as non-responsive.

**29. Deleted**

**F. Award of Contract.**

**30. Award Criteria.**

- 30.1 Subject to Clause 32, the Employer will award the Contract to the Bidder whose Bid has been determined:
- i. To be substantially responsive to the bidding documents and who has offered the lowest evaluated Bid price.

**31. Employer’s Right to accept any Bid and to reject any or all Bids**

- 31.1 Notwithstanding Clause 30, the Employer reserves the right to accept or reject any Bid, and to cancel the bidding process and reject all bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Employer’s action.

**32. Notification of Award and Signing of Agreement.**

- 32.1 The bidder who’s Bid has been accepted will be notified of the award by the Employer. This letter (hereinafter and in the Part I *General Conditions of Contract* called the “Letter of Acceptance”) will state the sum that the Employer will pay to the Contractor in consideration of the execution, completion and maintenance of

the Works, by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").

- 32.2. The notification of award will constitute the formation of the Contract and the Bid Security will be converted into Performance Security (part).
- 32.3. The Agreement will incorporate all agreements between the Employer and the successful Bidder. It will be signed by the Employer and the successful Bidder within 7 days of receipt of LOA by the bidder.

### 33. Performance Security.

- 33.1 **Within 30 (thirty) days** after receipt of the Letter of Acceptance, the successful Bidder shall deliver to the Employer a balance Performance Security i.e. **3% percent of the Contract Price - the Bid Security converted into Performance Security**, for the period of **28 days** after the expiry of defect liability period from the date of issue of certificate of completion of work plus additional security for unbalanced Bid in accordance with clause 28.3 of ITB and sign the contract. The performance Security for the work shall be as mentioned in the Appendix to ITB.
- 33.2 The performance security shall be either in the form of a Bank Guarantee in the name of the Employer, from a Bank as specified in case of bid security or can be submitted by online mode directly into the NHIDCL's account details of which is given Clause 16.2.
- 33.3 Failure of the successful bidder to comply with the requirement of sub-clause 33.1 shall constitute sufficient ground for cancellation of the contract and forfeiture of the bid security converted into Performance Security (part) and debarment for a period of 2 years from the date of debarment.

### 34. Advances.

- 34.1 The Employer will provide Mobilization Advance as provided in Part I General Conditions of Contract.

### 35. Corrupt or Fraudulent Practices.

The Employer will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question and will declare the firm ineligible, either indefinitely or for a stated period of time, to bid for any work with National Highways Authority of India, if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for the contract, or in its execution.

For the purpose of this clause, the following terms shall have the meaning hereinafter respectively assigned to them

- (a) "**Corrupt practice**" means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bidding Process (For avoidance of doubt, offering of employment to, or employing, or engaging in any manner whatsoever, directly or indirectly, any official of the Authority who is or has been associated in any manner, directly or indirectly, with Bidding Process, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the Authority, shall be deemed to

constitute influencing the actions of a person connected with the Bidding Process);

- (b) **“Fraudulent practice”** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process;

The Employer requires the bidders/Contractors to strictly observe the laws against fraud and corruption enforced in India, namely, Prevention of Corruption Act, 1988.

## Appendix to ITB

### Clause No.

1.1 The Employer is Managing Director National Highways & Infrastructure Development Corporation Limited.

**No. NHIDCL/MHA/BIP/Pkg-I/2020-21**

**“Construction and Installation of prefabricated Office cum Residence in the States of Arunachal Pradesh, Sikkim & Uttarakhand in high altitude remote areas.”**

1.1 Bidder may be a natural person, private entity, sole or partnership firm,  
3.1 company incorporated and registered in India.

4.4 A (a) *achieved an average annual financial turnover (in all classes of civil engineering construction and fabrication works only) equivalent to Rs. 10.13 crore during last three year ending 31<sup>st</sup> March of the previous financial year duly certified by Chartered Accountant and shall have a minimum Net Worth of Rs. 1.26 crore at the close of the preceding financial year.*

4.4 A (b) i. One similar completed work\*\* costing not less than amount equals to **Rs. 20.26 Crore**  
**OR**  
ii. Two similar completed works\*\* costing not less than amount equals to **Rs. 15.20 Crore**  
**OR**  
iii. Three similar completed works\*\* costing not less than amount equals to **Rs. 10.13 Crore.**

**(\*\*The “similar work”: means Construction of prefabricated/fabricated Steel Framed structure)**

15.3 Bid Document fee (Incl. 18% GST): Rs.11,800/- (Rupees Eleven Thousand Eight Hundred only.)

16.2 **Bid Security:** 1% of Estimated Cost.

20.3 **Schedule for submission of Bids**

Sl. No.	Event Description	Date
1.	Invitation of RFP (NIT)	19.11.2020
2.	Last date for receiving queries through e-mail	25.11.2020
3.	Pre-BID meeting through VC (Bidder may	26.11.2020

	request link for VC through email)	
4.	Authority response to queries latest by	02.12.2020
5.	BID submission start date	06.12.2020 (from 1100 Hrs IST)
6.	BID Due Date for online submission	09.12.2020 (upto 1100 Hrs IST)
7.	Physical Submission of Bid	Before opening of Financial Bid
8.	Opening of Technical BIDs	10.12.2020 (1130 Hrs IST onwards)
9.	Declaration eligible / qualified bidders	To be intimated later
10.	Opening of Financial BID	To be intimated later
11.	Letter of Award (LOA)	To be intimated later
12.	Validity of BID	120 days from bid due date

**33.1 Performance Security : 3% of the Contract Price.**

## Format for CV

Photo

### Format of Curriculum Vitae (CV) For Proposed Key Staff

1. Proposed Position: \_\_\_\_\_
2. Name of Staff: \_\_\_\_\_
3. Date of Birth: \_\_\_\_\_ (Please furnish proof of age)
4. Nationality: \_\_\_\_\_
5. Educational Qualification:

(Summarize college/university and other specialized education of staff member, giving names of schools, dates attended and degrees obtained). (Please furnish proof of qualification)

Contact Address with Phone and mobile numbers:

6. Membership of Professional Societies: \_\_\_\_\_

7. Publication:

(List of details of major technical reports/papers published in recognized national and international journals)

8. Employment Record:

(Starting with present position, list in reversed order, every employment held. List all positions held by staff member since graduation, giving dates, names of employing organization, title of positions held and location of assignments. For experience **period of specific assignment must be clearly mentioned**, also give client references, where appropriate).

9. Summary of the CV

(Furnish a summary of the above CV. The information in the summary shall be precise and accurate. The information in the summary will have bearing on the evaluation of the CV).

- A) Education:

- i) Field of Diploma/Graduation and year
- ii) Field of post-graduation and year
- iii) Any other specific qualification

- B) Experience:

- i) Total experience : \_\_\_\_\_ Yrs

- ii) Responsibilities held:

- a) \_\_\_\_\_ Yrs.

- b) \_\_\_\_\_ Yrs.

- c) \_\_\_\_\_ Yrs.

- d) Relevant Experience: \_\_\_\_\_ Yrs.

- C) Permanent Employment with the Firm (Yes/No):

If yes, how many years:

If no, what is the employment?

Arrangement with the firm?

Certification:

- 1 *I am willing to work on the project and I will be available for entire duration of the project assignment and I will not engage myself in any other assignment during the currency of this assignment on the project*
- 2 I, the undersigned, certify that to the best of my knowledge and belief, this bio-data correctly describes myself my qualification and my experience.

**Signature of the Candidate** \_\_\_\_\_

Place \_\_\_\_\_

Date \_\_\_\_\_

**Signature of the Authorized Representative of the firm** \_\_\_\_\_

Place \_\_\_\_\_

Date \_\_\_\_\_

Note: Each page of the CV shall be signed in ink by both the staff member and the Authorized Representative of the firm.

(SECTION -III)

**QUALIFICATION INFORMATION**

The information to be filled in by the Bidder in this section on E-portal & **Scanned Copies of documents to be submitted online** will be used for the purposes of post qualification as provided for in Clause 4 of the Instructions to Bidders.

**1. For Individual Bidders**

**1.1 Constitution or legal status of Bidder**

*[Upload scanned copy of Original]*

Details of Ownership \_\_\_\_\_

Place of registration: \_\_\_\_\_

Principal place of business: \_\_\_\_\_

**1.2 Power of attorney of signatory of Bid** *[Upload scanned copy & also submit Original copy in physical form]*

**1.3 Total value of Civil Engineering construction/ fabrication work performed in the last three years (in Rs. Lakh) Refer ITB Clause 4.5 A(a)**  
(Upload scanned copies of Turnover certificates from Chartered Accountant & also submit original certificate from Chartered Accountant)

2017-2018-----

2018-2019-----

2019-2020-----

**Total** -----

**Average per year** -----

**1.4 (a)** Work performed as prime contractor, work performed in the past as a nominated sub- contractor duly approved by Employer will also be considered , provided further that all other qualification criteria are satisfied (in the same name) on works of a similar nature during the last **Seven** years to qualify as per ITB.

Project Name	Name of the Employer*	Description of work	Contract No.	Value of Contract (Rs. Crore)	Date of issue of work order	Stipulated period of completion	Actual date of completion *	Remarks explaining reasons for delay & work Completed

*\* Attach certificate(s) from the minimum rank of Executive Engineer or equivalent*

Note: In case of nominated sub-contractor - a certificate from the minimum rank of Executive Engineer or equivalent of the Prime Employer should be obtained from whom an approval for subcontractor has been obtained.

(b) Information on Bid Capacity (works for which bids have been submitted and accepted and works which are yet to be completed) as on the date 7 days before the last date for bid submission (as per CI 4.6 of the ITB).

(i) Existing commitments and on-going works (B)

Description of works	Place & State	Contract No.	Name & Address of Employer	Value of Contract (Rs. Cr)	Stipulated Period of Completion	Value of works remaining to be completed in the next N years (Rs Cr)	Escalation factor	Anticipated date of completion	Escalated value of remaining work during completion period of work for which bids are invited
1	2	3	4	5	6	7	8	9	10

ii) Details of works for which bid submitted and accepted (i.e. where contract signing is pending)

Description of works	Place & State	Name & Address of Employer	Date of issue of Letter of Acceptance (LOA)	Value given in LOA	Stipulated period for completion	Value of work during completion period of work for which bids are invited
1	2	3	4	5	6	7

Upload copy of LOA

iii) Bid capacity (Bidder shall calculate, mention his bid capacity and enclose the supporting calculation)

A = Rs \_\_\_\_\_ Lakh (enclose the details)

B = Rs...\_\_\_\_\_Lakh (enclose the details)

**Assessed Available Bid capacity = (A\* 2.5 - B)**

1.5. The bidder must provide information regarding their fabrication plan and details of Pre fab structure factory / site.

1.6. Qualifications and Experience of Key Personnel proposed for administration and execution of the Contract. **Attach biographical data for technical personnel.**

Position	Name	Qualification	Year of Experience (General)	Years of experience in the proposed position

Etc.				

Note : The detailed and signed CV's of all the Key Technical Personnel, signed by the key personnel himself, be uploaded along with the bid as per proforma given in Appendix to ITB.

**1.6. Information on litigation/ arbitration history in which the Bidder is involved.**

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

**2. Bidders should provide the following affidavits/ undertakings as per formats enclosed hereafter: -**

- (i) Affidavit (it should be on stamp paper attested by Notary)
- (ii) Undertaking that the Bids shall remain valid for the period specified in Clause 15.1.

**AFFIDAVIT**

**(To be notarized by Notary)**

1. I, the undersigned, do hereby certify that all the statements made in the required attachments are true and correct.
2. The undersigned also hereby certifies that neither our firm M/s\_\_\_\_\_ have abandoned any work on National Highways in India nor any contract awarded to us for such works have been rescinded, during last **Seven** years prior to the date of this bid.
3. The undersigned hereby authorize(s) and request(s) any bank, person, firm or corporation to furnish pertinent information deemed necessary and requested by the Department to verify this statement or regarding my (our) competence and general reputation.
4. The undersigned understand and agrees that further qualifying information may be requested, and agrees to furnish any such information at the request of the Department Project implementing agency.

\_\_\_\_\_  
(Signed by an Authorized Officer of the Firm)

\_\_\_\_\_  
Title of Officer

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
DATE

## UNDERTAKING

I, the undersigned do hereby undertake on behalf of our firm M/s [Name of the bidder], that we shall not withdraw or modify our bid during the period of validity from the bid submission date.

I, on behalf of the bidder, [Name of the bidder], also accept the fact that in case the bid is withdrawn or modified during the period of its validity or if we fail to sign the contract in case the work is awarded to us or we fail to submit a performance security before the deadline defined in the Bid, then [Name of the bidder] will be debarred for participation in the tendering process for the works of NHIDCL and other works under other Centrally Sponsored Schemes, for a period of two year from the bid due date of this work.

\_\_\_\_\_  
(Signed by an Authorized Officer of the Firm)

\_\_\_\_\_  
Title of Officer

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
DATE

**Letter Head of the Statutory Auditor  
(Giving phone number, address and email address)  
CERTIFICATE OF NET WORTH BY STATUTORY AUDITOR**

1. This certificate is being issued on the request of .....(Name of the Bidder and address) for participating in tender in respect of National Highways and Infrastructure Development Corporation of India Ltd. in accordance with the applicable auditing standards and guidance Note issued by the Institute of Chartered Accountant of India.
2. We M/s .....(Name of the Statutory Auditor) are statutory auditors of .....(Name of the Bidder) for the year ended 31<sup>st</sup> March 20XX (appropriate year may be filled in).

**Note 1: In case the certificate is issued by any firm other than statutory Auditors of a company, the form no. ADT 1.duly filed with the Registrar of Companies is attached.**

**Note 2: In cases the Bidder does not have statutory auditor, the firm of chartered accountants that audited last financial statements/books of accounts shall be treated as Statutory Auditor while in case of a company, the statutory auditor shall have same meaning as 'Auditor' defined under the Companies Act, 2013.**

3. We have obtained all relevant record and information that were necessary for providing this certificate.
4. We have read and understood the tender documents relating to financial (e.g. 'Turnover' and 'Net worth'), verified the standalone audited financial statements of ..... (Name of the Bidder), books of accounts and other relevant records and information as at 31<sup>st</sup> March 20XX produced before us by .....(Name of the Bidder), and on basis of such verification, information and explanation given to us, we certify that Net Worth of .....(Name of the Bidder) as on 31 March 20XX has been computed strictly in compliance with the provision of clause 2.2.2.9(ii) of the RFP documents of the NHIDCL and as under:

Sr. No.	Particulars	Amount (₹ in lakh)	Remarks
1	Paid of Equity Share Capital (This does not include advance against equity and application money pending allotment)		
2	Reserves and Surpluses (Other equity in case of Financial Statements are prepared under Ind AS) created out of profits)		
2.1	Accumulated Profits		
2.2	Share/Security premium		
2.3	Other Reserves		
	Total		
	<b>Less</b> Accumulated losses, if any		
	<b>Less</b> Miscellaneous expenditure to the extent not written off or adjusted		
	<b>Less</b> Deferred Revenue Expenditure, if any		
	<b>Less</b> write back of depreciation, if any		
	<b>Less</b> any other reserve created out of profits like amalgamation, capital restructuring, first time adoption of Ind AS or debt		

restructuring prior to full settlement of debts.		
--------------------------------------------------	--	--

5. This is certified that the Calculation of Net worth is based on **standalone financial statements** of .....(Name of the Bidder) prepared in conformity with applicable Accounting Standards and it does not include following components:
- i. Advance against equity;
  - ii. Share application money, pending allotment;
  - iii. Redeemable or non-redeemable Preference share capital ;
  - iv. Convertible and non-convertible debentures;
  - v. Revaluation Reserves;
  - vi. Accumulated losses;
  - vii. Write back of depreciation;
  - viii. Other comprehensive income, in cases where financial statements are prepared based on Ind AS;
  - ix. Reserves created from restructuring of debt etc till their settlement of debts;
  - x. Deferred Tax Liabilities; and
  - xi. Impact of restructuring or amalgamation of the bidder.

**For XYZ & Associates**  
**Chartered Accountant**  
**(FRN: .....)**

**Name of CA: .....**  
**Partner/Proprietor Membership No.: .....**  
**Place: .....**  
**Date: .....**  
**UDIN: .....**

**Letter Head of the Statutory Auditor**  
(Giving phone number, address and email address)

**CERTIFICATE OF TURNOVER BY STATUTORY AUDITOR**

1. This certificate is being issued on the request of .....(Name of the Bidder and address) for participating in tender in respect of National Highways and Infrastructure Development Corporation of India Limited in accordance with the applicable auditing standards and guidance Note issued by the Institute of Chartered Accountant of India.
2. We M/s .....(Name of the Statutory Auditor) are statutory auditors of .....(Name of the Bidder) for the year ended 31<sup>st</sup> March 20XX (appropriate year may be filled in).

***Note 1: In case the certificate is issued by any firm other than statutory Auditors of a company, the form no. ADT 1.duly filed with the Registrar of Companies is attached.***

***Note 2: In cases the Bidder does not have statutory auditor, the firm of chartered accountants that audited last financial statements/books of accounts shall be treated as Statutory Auditor while in case of a company, the statutory auditor shall have same meaning as ‘Auditor’ defined under the Companies Act, 2013.***

3. We have obtained all relevant record and information that were necessary for providing this certificate.
4. We have read and understood the tender documents relating to financial and technical capacity (e.g. ‘Turnover’ and ‘Net worth), verified the standalone audited financial statements of ..... (Name of the Bidder), books of accounts and other relevant records and information as at 31<sup>st</sup> March 20XX produced before us by .....(Name of the Bidder), and on basis of such verification, information and explanation given to us, we certify as under:

S.No.	Financial year	Turnover (₹ In lakh)
1	Year 1 (2019-2020)	
2	Year2 (2018-2019)	
3	Year 3 (2017-2018)	

***In case financial statements of the latest financial year are not audited and therefore, the bidder cannot make it available, the bidder shall provide an undertaking to this effect and statutory auditor shall certify the same. In such case, the bidder shall provide the audited financial statements for five year immediately preceding the year for which the audited annual report is not being produced as per clause 2.2.2.8 of the RFP. In case ,undertaking duly certified by statutory auditor is not submitted under such circumstances, the annual turnover for the year for which audited annual financial statements are not available shall be considered as ‘Nil’ for the purposes of arriving at the average annual turnover***

5. Annual Turnover updated to the price level of the year, based on factors indicated in table xxx of the tender documents, is given below:

Year	Year-1	Year-2	Year-3	Year-4	Year-5
Updation factor	1.00	1.05	1.10	1.15	1.20
Actual Turnover (₹ In lakh)					
Updated Turnover (₹ In lakh)					

**Average Updated Turnover (to the price level of the year) = ..... (₹ In lakh)**

6. This is also certified that the Calculation of turnover is based on **standalone financial statements** of .....(Name of the Bidder) prepared in conformity with applicable Accounting Standards and it does not include any component of indirect tax like GST.
7. This is also certified that the that turnover mentioned in para 5 is in individual capacity of .....(Name of the Bidder) and its share in the Joint Venture where the work had been executed jointly with other party/parties and such a joint venture is not a separate legal entity. Further, the above turnover does not include any turnover related to joint venture or subsidiary having a separate legal entity.
8. This is also certified that turnover mentioned in para 5 is in respect of execution of construction/ civil /engineering activities and does not include any trading activity of .....(Name of the Bidder).

**For XYZ & Associates**  
**Chartered Accountant**  
 (FRN: .....)

**Name of CA: .....**  
**Partner/Proprietor Membership No.: .....**  
**Place: .....**  
**Date: .....**  
**UDIN: .....**

**SECTION-IV  
FORMS OF BANK GUARANTEES, LOA & AGREEMENT**

**Form of Bank Guarantee**

**[Performance Security/Additional Performance Security]**

To

\_\_\_\_\_ [name of Authority]

\_\_\_\_\_ [address of Authority]

WHEREAS \_\_\_\_\_ [name and address of Contractor] (hereafter called the “Contractor”) has undertaken, in pursuance of Letter of Acceptance (LOA) No. Dated\_ for construction of [name of the Project] (hereinafter called the “Contract”)

AND WHEREAS the Contract requires the Contractor to furnish an {Performance Security/ Additional Performance Security} for due and faithful performance of its obligations, under and in accordance with the Contract, during the {Construction Period/ Defects Liability Period and Maintenance Period} in a sum of Rs..... cr. (Rupees ..... crore) (the “**Guarantee Amount**”<sup>1</sup>).

AND WHEREAS we, ..... through our branch at ..... (the “**Bank**”) have agreed to furnish this Bank Guarantee (hereinafter called the “**Guarantee**”) by way of Performance Security.

NOW, THEREFORE, the Bank hereby, unconditionally and irrevocably, guarantees and affirms as follows:

1. The Bank hereby unconditionally and irrevocably guarantees the due and faithful performance of the Contractor’s obligations during the {Construction Period/ Defects Liability Period and Maintenance Period} under and in accordance with the Contract, and agrees and undertakes to pay to the Authority, upon its mere first written demand, and without any demur, reservation, recourse, contest or protest, and without any reference to the Contractor, such sum or sums up to an aggregate sum of the Guarantee Amount as the Authority shall claim, without the Authority being required to prove or to show grounds or reasons for its demand and/or for the sum specified therein.
2. A letter from the Authority, under the hand of an officer not below the rank of [General Manager of National Highways & Infrastructure Development Corporation Limited], that the Contractor has committed default in the due and faithful performance of all or any of its obligations under and in accordance with the Contract shall be conclusive, final and binding on the Bank. The Bank further agrees that the Authority shall be the sole judge as to whether the Contractor is in default in due and faithful performance of its obligations during and under the Contract and its decision that the Contractor is in default shall be final and binding on the Bank, notwithstanding any differences between the Authority and the Contractor, or any dispute between them pending before any court, tribunal, arbitrators or any other authority or body, or by the discharge of the Contractor for any reason whatsoever.
3. In order to give effect to this Guarantee, the Authority shall be entitled to act as if the Bank were the principal debtor and any change in the constitution of the Contractor and/or the Bank, whether by their absorption with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the Bank under this Guarantee.

<sup>1</sup> Guarantee Amount for Performance Security and Additional Performance Security shall be calculated as per Contract.

4. It shall not be necessary, and the Bank hereby waives any necessity, for the Authority to proceed against the Contractor before presenting to the Bank its demand under this Guarantee.
5. The Authority shall have the liberty, without affecting in any manner the liability of the Bank under this Guarantee, to vary at any time, the terms and conditions of the Contract or to extend the time or period for the compliance with, fulfillment and/ or performance of all or any of the obligations of the Contractor contained in the Contract or to postpone for any time, and from time to time, any of the rights and powers exercisable by the Authority against the Contractor, and either to enforce or forbear from enforcing any of the terms and conditions contained in the Contract and/or the securities available to the Authority, and the Bank shall not be released from its liability and obligation under these presents by any exercise by the Authority of the liberty with reference to the matters aforesaid or by reason of time being given to the Contractor or any other forbearance, indulgence, act or omission on the part of the Authority or of any other matter or thing whatsoever which under any law relating to sureties and guarantors would but for this provision have the effect of releasing the Bank from its liability and obligation under this Guarantee and the Bank hereby waives all of its rights under any such law.
6. This Guarantee is in addition to and not in substitution of any other guarantee or security now or which may hereafter be held by the Authority in respect of or relating to the Contract or for the fulfillment, compliance and/or performance of all or any of the obligations of the Contractor under the Contract.
7. Notwithstanding anything contained hereinbefore, the liability of the Bank under this Guarantee is restricted to the Guarantee Amount and this Guarantee will remain in force for the period specified in paragraph 8 below and unless a demand or claim in writing is made by the Authority on the Bank under this Guarantee all rights of the Authority under this Guarantee shall be forfeited and the Bank shall be relieved from its liabilities hereunder.
8. The Guarantee shall cease to be in force and effect on \*\*\*\*<sup>§</sup>. Unless a demand or claim under this Guarantee is made in writing before expiry of the Guarantee, the Bank shall be discharged from its liabilities hereunder.
9. The Bank undertakes not to revoke this Guarantee during its currency, except with the previous express consent of the Authority in writing, and declares and warrants that it has the power to issue this Guarantee and the undersigned has full powers to do so on behalf of the Bank.  
Any notice by way of request, demand or otherwise hereunder may be sent by post addressed to the Bank at its above referred branch, which shall be deemed to have been duly authorized to receive such notice and to effect payment thereof forthwith, and if sent by post it shall be deemed to have been given at the time when it ought to have been delivered in due course of post and in proving such notice, when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of the Authority that the envelope was so posted shall be conclusive.

---

<sup>§</sup>Insert date atleast 2 (two) years from the date of issuance of this Guarantee (in accordance with Clause 2.21 of the RFP). The Contractors can submit the BG for periods of two years at one time and keep on renewing the same till the DLP is over if they have problems in getting the BG in one go for the entire DLP.

10. This Guarantee shall come into force with immediate effect and shall remain in force and effect for up to the date specified in paragraph 8 above or until it is released earlier by the Authority pursuant to the provisions of the Contract.
11. This Guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.
12. This guarantee shall also be operatable at our.....Branch at New Delhi, from whom, confirmation regarding the issue of this guarantee or extension / renewal thereof shall be made available on demand. In the contingency of this guarantee being

invoked and payment thereunder claimed, the said branch shall accept such invocation letter and make payment of amounts so demanded under the said invocation.

13. The guarantor/bank hereby confirms that it is on the SFMS (Structural Finance Messaging System) platform & shall invariably send an advice of this Bank Guarantee to the designated bank of [MoRT&H/NHAI/NHIDCL/State PWD/BRO], details of which is as under:

S.No.	Particulars	Details
1	Name of Beneficiary	National Highways & Infrastructure Development Corporation Limited
2	Beneficiary Bank Account No.	90621010002659
3	Beneficiary Bank Branch IFSC	IFSC SYNB0009062
4	Beneficiary Bank Branch Name	Transport Bhawan, New Delhi
5	Beneficiary Bank Address	Canara Bank (erstwhile Syndicate Bank) transport Bhawan, 1st Parliament Street, New Delhi-110001

Signed and sealed this ..... day of ....., 20..... at .....

SIGNED, SEALED AND DELIVERED

For and on behalf of the Bank by:

(Signature)

(Name)

(Designation)

(Code Number)

(Address)

**FORM OF LETTER OF APPLICATION**

To,

General Manager(Tech.)  
National Highways & Infrastructure Development Corporation Limited.  
2<sup>nd</sup> Floor, PTI Building,  
4, Parliament Street,  
New Delhi - 110001

DESCRIPTION OF WORKS: Construction and Installation of prefabricated Office cum Residence in the States of Arunachal Pradesh, Sikkim & Uttarakhand in high altitude remote areas.

Dear Sir,

Having examined the Bid Document, Instruction to Bidders Qualification Information, Scope of works, etc. for the subject work. We, hereby submit our technical and financial bid for the subject work.

It is certified that the information furnished in this document is true and correct. The proposal is unconditional and unqualified. We undersigned accept that NHIDCL reserves the right to reject any or all application without assigning any reason.

Thanking you,

Yours faithfully,

(Authorized Signatory)  
For and on behalf of M/s\_\_\_\_\_

**FORM OF LETTER OF ACCEPTANCE**

No. ....

Dated .....

To  
M/s.....

**Sub.:** ..... **Name of Work** .....

Sir,

Based on your bid submitted on ..... in compliance of bidding document of NHIDCL for execution of the work of ..... , it is hereby notified that your bid for a contract price of **Rs..... (Rupees in words.....)** has been accepted by the Competent Authority.

You are hereby requested to sign the contract agreement within 7 days from the receipt of this letter and furnish Performance Security in the form detailed in para 33.2 of ITB for an amount equivalent to **Rs..... (Rupees in words.....)** within 30 days as per provisions of clause 33.1 of ITB of the bid document and failing which the actions as stipulated in clause- 33.3 of ITB shall be taken.

Thanking you,

Yours faithfully,

(.....)  
Authorized Signatory

## FORM OF AGREEMENT

### AGREEMENT

This agreement made the \_\_\_\_\_ day of \_\_\_\_\_ 20....\_\_\_\_\_ between the National Highways & Infrastructure Development Corporation Limited, New Delhi (hereinafter called "the Employer" of the one part and \_\_\_\_\_ (here in after called "the Contractor") of the other part.

AND WHEREAS the Employer invited bids from eligible bidders for the execution of certain works, viz .....

AND WHEREAS pursuant to the bid submitted by the Contractor, vide \_\_\_\_\_ (here in after referred to as the "BID" or "OFFER") for the execution of works, the Employer by his letter of acceptance dated \_\_\_\_\_ accepted the offer submitted by the Contractor for the execution and completion of such works and remedying of any defects thereon, on terms and conditions in accordance with the documents listed in para 2 below.

AND WHEREAS the Contractor by a deed of undertaking dated \_\_\_\_\_ has agreed to abide by all the terms of the bid, including but not limited to the amount quoted for the execution of Contract, as stated in the bid, and also to comply with such terms and conditions as may be required from time to time.

AND WHEREAS the contractor has agreed to undertake such works and has furnished a performance security pursuant to clause 33 of the instructions to bidders (Section-I).

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this agreement words and expressions shall have the same meaning as are respectively assigned to them in the conditions of contract hereinafter referred to;
2. the following documents shall be deemed to form and be read and construed as part of this agreement viz.
  - (a) Agreement,
  - (b) Letter of Acceptance
  - (c) Contractor's Bid including Financial Bid Form,
  - (d) Contract Data,
  - (e) Conditions of Contract
  - (f) Scope of work, Technical specifications and drawings
  - (g) Bill of Quantities, and
  - (h) Any other document listed in the Contract Data.
3. The foregoing documents shall be construed as complementary and mutually explanatory one with another. Should any ambiguity or discrepancy be noted then the order of precedence of these documents shall be subject to the order as listed above and interpreted in the above order of priority.
4. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the works and remedy any defects therein in conformity in all respects with the provisions of the contract.

5. the employer hereby covenants to pay the contractor in consideration of the execution and completion of the works and 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 here to have caused this agreement to be executed the day and year above written. Signed, sealed and delivered by the said Employer through his Authorized Representative and the said Contractor through his Power of Attorney holder.

**Binding Signature of Employer** \_\_\_\_\_

For and on behalf of National Highways & Infrastructure development Corporation Limited,  
New Delhi

**Binding Signature of Contractor** \_\_\_\_\_

For and on behalf of M/s. \_\_\_\_\_

In the presence of

1. Name :

Address:

2. Name :

Address:

In the Presence of

1. Name:

Address:

2. Name:

Address:

**FORMAT FOR POWER OF ATTORNEY FOR SIGNING OF BID**

Know all men by these presents, We (**name of the firm and address of the registered office**) do hereby irrevocably constitute, nominate, appoint and authorize Mr./Ms (name), son/daughter/wife of ( **Name** ) and presently residing at (**Address**), who is presently employed with us/ the Lead Member of our Joint Venture and holding the position of (**Designation**), as our true and lawful attorney (hereinafter referred to as the “Attorney”) to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our BID for the Project proposed or being developed by the National Highways & Infrastructure Development Corporation Ltd. (the “Authority”) including but not limited to signing and submission of all applications, BIDs and other documents and writings, participate in Pre-BID and other conferences and providing information/ responses to the Authority, representing us in all matters before the Authority, signing and execution of all contracts including the agreement and undertakings consequent to acceptance of our BID, and generally dealing with the Authority in all matters in connection with or relating to or arising out of our BID for the said Project and/ or upon award thereof to us and/or until the entering into of the Contract with the Authority.

AND we hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHEREOF WE,....., THE ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS ..... DAY OF ..... 2.....

For .....  
(Signature, name, designation and address)  
of person authorized by Board Resolution  
(in case of Firm/ Company)/ partner in case of  
Partnership

Witnesses:  
firm  
1.  
2.  
Accepted

..... (Signature)  
(Name, Title and Address of the Attorney)

(Notarised)  
Person identified by me/ personally appeared before me/  
Attested/ Authenticated\*  
(\*Notary to specify as applicable)  
(Signature Name and Address of the Notary)

Seal of the Notary  
Registration No. of the Notary  
Date:.....

*Notes:*

- *The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*
- *Wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a board or shareholders' resolution/ power of attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.*
- *For a Power of Attorney executed and issued overseas, the document will also have to be legalised by the Indian Embassy and notarised in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalised by the Indian Embassy if it carries a conforming Appostille certificate.*

---

---

(SECTION -V)

CONDITIONS OF CONTRACT & CONTRACT DATA

---

---

### Table of Clauses

<b>A. General</b>	33. Correction of Defects
1. Definitions	34. Uncorrected Defects
2. Interpretation	<b>D. Cost Control</b>
3. Language and Law	35. Bill of Quantities
4. Engineer's Decisions	36. Variations
5. Delegation	37. Payments for Variations
6. Communications	38. Cash Flow Forecasts
7. Subcontracting	39. Payment Certificates
8. Other Contractors	40. Payments
9. Personnel	41. Compensation Events
10. Employer's and Contractor's Risks	42. Taxes and currencies for payment
11. Employer's Risks	43. Price adjustment
12. Contractor's Risks	44. Security Deposit/ Retention Money
13. Insurance	45. Liquidated Damages
14. Site Investigation Reports	46. Advance Payment
15. Queries about the Contract Data	47. Securities
16. Contractor to Construct the Works & do maintenance	48. Cost of Repairs
17. The Works to Be Completed by the Intended Completion Date	<b>E. Finishing the Contract</b>
18. Approval by the Engineer	49. Completion
19. Safety	50. Taking Over
20. Discoveries	51. Final Account
21. Possession of the Site	52. "As built" Drawings
22. Access to the Site	53. Termination
23. Instructions	54. Payment upon Termination
24. Maintenance	55. Property
25. Dispute and Arbitration	56. Release from Performance
26. Deleted	<b>F. Other Conditions of Contract</b>
<b>B. Time Control</b>	57. Labour
27. Programme	58. Compliance with Labour Regulations
28. Extension of the Intended Completion Date	59. Drawings and Photographs of the Works
29. Delays Ordered by the Engineer	60. The Apprenticeship Act, 1961
30. Management Meetings	
<b>C. Quality Control</b>	
31. Identifying Defects	
32. Tests	

## Section V

### Conditions of Contract

#### A. General

##### 1. Definitions

1.1 Terms which are defined in the Contract Data are not defined in the Conditions of Contract but keep their defined meanings. Capital initials are used to identify defined terms.

**Bill of Quantities** means the priced and completed Bill of Quantities forming part of the Bid.

**Compensation Events** are those defined in Clause 41 hereunder.

**The Completion Date** is the date of completion of the Works as certified by the Engineer, in accordance with Clause 49.1.

**The Contract** is the Contract between the Employer and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in Clause 2.3.

**The Contract Data** defines the documents and other information, which comprise the Contract.

**The Contractor** is a person or corporate body whose Bid to carry out the Works has been accepted by the Employer.

**The Contractor's Bid** is the completed bidding document submitted by the Contractor to the Employer and includes technical and financial bids.

**The Contract Price** is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.

**Days** are calendar days; months are calendar months.

A **Defect** is any part of the Works not completed in accordance with the Contract.

**The Defects Liability Certificate** is the certificate issued by Engineer, after the Defect Liability Period has ended and upon correction of Defects by the Contractor.

**The Defects Liability Period** is the period named in contract data and calculated from the Completion Date.

**Drawings** include calculations and other information provided or approved by the Engineer for the execution of the Contract.

**The Employer** is the party as defined in the Contract Data, who employs the Contractor to carry out the Works. The Employer may delegate any or all of its functions to a person or body nominated by him for specified functions.

**The Engineer** is the person named in the Contract Data (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Engineer) who is responsible for supervising the execution of the Works and administering the Contract.

**Equipment** is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.

**The Initial Contract Price** is the Contract Price listed in the Employer's Letter of Acceptance.

**The Intended Completion Date** is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised only by the Engineer by issuing an extension of time after the approval from Employer.

**Materials** are all supplies, including consumables, used by the Contractor for incorporation in the Works.

**Plant** is any integral part of the Works that shall have a mechanical, electrical, electronic, chemical, or biological function.

The **Site** is the area defined as such in the Contract Data.

**Site Investigation Reports** are those that were included in the bidding documents and are factual interpretative reports about the surface and subsurface conditions at the Site.

**Specification** means the Specification of the Works included in the Contract and any modification or addition made or approved by the Engineer.

The **Start Date** is given in the Contract Data. It is the date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.

A **Sub-Contractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site.

**Temporary Works** are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.

A **Variation** is an instruction given by the Engineer after the approval from NHIDCL, which varies the Works.

The **Works** are what the Contract requires the Contractor to construct, install, maintain, and handover to the Employer, as defined in the Contract Data.

## 2. Interpretation

**2.1** In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words

have their normal meaning under the language of the Contract unless specifically defined. The Engineer will provide instructions clarifying queries about these Conditions of Contract.

**2.2** If sectional completion is specified in the Contract Data, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

**2.3** The documents forming the Contract shall be interpreted in the following order of priority.

- (a) Agreement,
- (b) Letter of Acceptance
- (c) Contractor's Bid including Financial Bid Form,
- (d) Contract Data,
- (f) Conditions of Contract
- (f) Scope of work, Technical specifications and drawings
- (g) Bill of Quantities, and
- (h) Any other document listed in the Contract Data.

### **3. Language and Law**

**3.1** The language of the Contract and the law governing the Contract are stated in the Contract Data.

### **4. Engineer's Decisions**

**4.1** Except where otherwise specifically stated, the Engineer will decide contractual matters between the Employer and the Contractor in the role representing the Employer.

### **5. Delegation**

**5.1** The Engineer, duly informing the Employer, may delegate any of his duties and responsibilities to other people except to the Adjudicator, after notifying the Contractor, and may cancel any delegation after notifying the Contractor.

### **6. Communications**

**6.1** Communications between parties that are referred to in the Conditions shall be effective only when in writing. A notice shall be effective only when it is delivered.

### **7. Subcontracting**

**7.1** The Contractor may subcontract any portion of work, up to a limit specified in Contract Data, with the prior approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations.

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

- a. the sub-contracting of any part of the Works for which the Sub-Contractor is named in the Contract;

- b. the provision of labour or labour component.
- c. the purchase of Materials which are in accordance with the standards specified in the Contract.

**7.3** Beyond what has been stated in clauses 7.1 and 7.2, if the Contractor proposes sub-contracting of any part of the work during execution of the Works, because of some unforeseen circumstances to enable him to complete the Works as per terms of the Contract, the Employer will consider the following before according approval:

- a) The Contractor shall not sub-contract the Works more than the limit specified in Contract Data..
- b) The Contractor shall not sub-contract any part of the Work without prior consent of the Employer. Any such consent shall not relieve the Contractor from any liability or obligation under the Contract and he shall be responsible for the acts, defaults and neglects of any of his sub-Contractor, his agents or workmen as fully as if they were the acts, defaults or neglects of the Contractor, his agents and workmen.

**7.3** The Engineer should satisfy himself before recommending to the Employer whether

- a) the circumstances warrant such sub-contracting; and
- b) the sub-Contractor so proposed for the Work possess the experience, qualifications and equipment necessary for the job proposed to be entrusted to him in proportion to the quantum of Works to be sub-contracted.

## **8. Other Contractors**

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

**8.2** The Contractor should take up the works in convenient reaches as decided by the Engineer to ensure there is least hindrance to the smooth flow of traffic including movement of vehicles and equipment of other Contractors till the completion of the Works.

## **9. Personnel**

**9.1** The Contractor shall employ the technical personnel named in the Contract Data. The ED, NHIDCL will approve any proposed replacement of technical personnel (except Project Manager) only if their relevant qualifications and experience are substantially equal to or better than those of the personnel stated in the Contract Data. If the personnel stated in the contract data are not deployed on site by the contractor, a penalty of Rs. 50,000/- per month in case of Project Manager and Rs. 25,000/- in case of other key personnel will be imposed upto a maximum period of 3 months. Thereafter, it will be treated as a breach of contract and action will be taken as per clause 53. The replacement of Project Manager will be approved by Engineer in Charge after the approval of Competent Authority.

**9.2** If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the

person leaves the Site within seven days and has no further connection with the Works in the Contract.

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

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

## **11. Employer's Risks**

**11.1** The Employer is responsible for the excepted risks which are (a) in so far as they directly affect the execution of the Works in the Employer's country, the risks of war, hostilities, invasion, act of foreign enemies, rebellion, revolution, insurrection or military or usurped power, civil war, riot commotion or disorder (unless restricted to the Contractor's employees), natural calamities and contamination from any nuclear fuel or nuclear waste or radioactive toxic explosive, or (b) a cause due solely to the design of the Works, other than the Contractor's design.

## **12. Contractor's Risks**

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

## **13. Insurance**

**13.1** The Contractor at his cost shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the end of defect liability period for events (a) to (d), in the amounts and deductibles stated in the Contract Data for the following events which are due to the Contractor's risks:

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

**13.2** Insurance policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the Start Date. All such insurance shall provide for compensation to be payable in Indian Rupees to rectify the loss or damage incurred.

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

**13.4** Alterations to the terms of insurance shall not be made without the approval of the Engineer.

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

#### **14. Site Investigation Reports**

**14.1** The Contractor, in preparing the Bid, may rely on any Site Investigation Reports referred to in the Contract Data, supplemented by any other information available to him, before submitting the bid. However, at the time of execution, the contractor may carry out necessary site investigation for design of the foundations in consultation with the engineer.

#### **15. Queries about the Contract Data**

**15.1** The Executive Director will clarify queries on the Contract Data.

#### **16. Contractor to Construct the Works & maintenance during defect liability.**

**16.1** The Contractor shall construct, install and maintain the Works during defect liability period in accordance with the documents forming part of the contract. No payment for maintenance during defect liability period is payable. Payment for maintaining the office for a period of 5 years after defect liability will be paid as per the contract.

#### **17. The Works to Be Completed by the Intended Completion Date**

**17.1** The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Programme submitted by the Contractor, as updated with the approval of the Engineer, and complete them by the Intended Completion Date.

#### **18. Approvals**

**18.1** The Contractor shall submit Specifications, Design and Drawings showing the proposed Works to the Engineer within 15 days of issuance of LOA, who shall approve them after proof checking within 7 days, if they comply with specifications and drawings.

**18.2** The Contractor shall be responsible for detailed design and drawing of all the Works.

**18.3** The Engineer's approval shall not alter the Contractor's responsibility for design of all Works.

**18.4** The Contractor shall obtain approval of third parties to the design of all the Works, where required, as directed by the Engineer.

**18.5** All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Engineer before their use.

**18.6** The Contractor shall Construct and Install a sample (Prototype) pre-fabricated Office cum Residence (OCR) as per contract specifications within the fabrication yard/factory within 30 days of approval of design by the Engineer. This sample OCR shall be inspected by the employer/engineer within 7 days of intimation by the Contractor. On acceptance of the sample (Prototype) OCR, the contractor shall be required to construct and Install one OCR at the given site location, which shall be inspected again by the Employer/Engineer within 15

days of intimation by the contractor. On acceptance of field OCR at designated locations, the contractor will be given 'go-ahead' for construction of all the balance OCR within six months of issuance of 'go-ahead'. In case of deficiencies, the same will be intimated to the contractor for rectification.

## **19. Safety**

**19.1** The Contractor shall be responsible for the safety of all activities on the Site.

## **20. Discoveries**

**20.1** Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

## **21. Possession of the Site**

**21.1** The Employer shall give complete possession of the Site to the Contractor on the date of signing of agreement.

## **22. Access to the Site**

**22.1** The Contractor shall allow access to the Site and to any place where work in connection with the Contract is being carried out, or is intended to be carried out and to any place where material or plant are being manufactured /fabricated / assembled for the works to the engineer and any person/persons/agency authorized by:

- a. The Engineer
- b. The Employer

## **23. Instructions**

**23.1** The Contractor shall carry out all instructions of the Engineer, which comply with the applicable laws where the Site is located.

**23.2** The Contractor shall permit the Employer to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by Auditors appointed by the Employer if so required by the Employer.

## **24. Maintenance**

**24.1** The contractor shall maintain the site offices after defect liability period of 12 months for a period of 5 years. The contractor will be paid quarterly (every three month) for carrying out the maintenance services after duly certification by the Office -in- charge as per the rates in BOQ.

## **25. Dispute and Arbitration**

**25.1** Dispute Resolution

(i) Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to this Agreement (including its interpretation) between the Parties, and so notified in writing by either Party to the other Party (the “Dispute”) shall, in the first instance, be attempted to be resolved amicably in accordance with the conciliation procedure set forth in Clause 25.2.

(ii) The Parties agree to use their best efforts for resolving all Disputes arising under or in respect of this Agreement promptly, equitably and in good faith, and further agree to provide each other with reasonable access during normal business hours to all non- privileged records, information and data pertaining to any Dispute.

## 25.2 Conciliation

In the event of any Dispute between the Parties, either Party may call upon the Authority’s Engineer, or such other person as the Parties may mutually agree upon (the “Conciliator”) to mediate and assist the Parties in arriving at an amicable settlement thereof. Failing mediation by the Conciliator or without the intervention of the Conciliator, either Party may require such Dispute to be referred to the Chairman of the Authority and the Chairman of the Board of Directors of the Contractor for amicable settlement, and upon such reference, the said persons shall meet no later than 7 (seven) business days from the date of reference to discuss and attempt to amicably resolve the Dispute. If such meeting does not take place within the 30 (thirty) business day period or the Dispute is not amicably settled within 30 (thirty) days of the meeting or the Dispute is not resolved as evidenced by the signing of written terms of settlement within 30 (thirty) days of the notice in writing referred to in Clause 25.1. or such longer period as may be mutually agreed by the Parties, either Party may refer the Dispute to arbitration in accordance with the provisions of Clause 25.3 but before resorting to such arbitration, the parties agree to explore conciliation by the Conciliation Committees of Independent Experts set up by the Authority in accordance with the procedure decided by the panel of such experts and notified by the Authority on its website including its subsequent amendments. In the event of the conciliation proceedings being successful, the parties to the dispute would sign the written settlement agreement and the conciliators would authenticate the same. Such settlement agreement would then be binding on the parties in terms of Section 73 of the Arbitration Act. In case of failure of the conciliation process even at the level of the Conciliation Committee, either party may refer the Dispute to arbitration in accordance with the provisions of Clause 25.3.

## 25.3 Arbitration

- (i) Any dispute which remains unresolved between the parties through the mechanisms available/ prescribed in the Agreement, irrespective of any claim value, which has not been agreed upon/ reached settlement by the parties, will be referred to the Arbitral Tribunal as per the Arbitration and Conciliation Act.
- (ii) Deleted
- (iii) The Arbitral Tribunal shall make a reasoned award (the “Award”). Any Award made in any arbitration held pursuant to this Clause 25 shall be final and binding on the Parties as from the date it is made, and the Contractor and the Authority agree and undertake to carry out such Award without delay.
- (iv) The Contractor and the Authority agree that an Award may be enforced against the Contractor and/or the Authority, as the case may be, and their respective assets wherever situated.

- (v) This Agreement and the rights and obligations of the Parties shall remain in full force and effect, pending the Award in any arbitration proceedings hereunder. Further, the parties unconditionally acknowledge and agree that notwithstanding any dispute between them, each Party shall proceed with the performance of its respective obligations, pending resolution of Dispute in accordance with this Article.
- (vi) In the event the Party against whom the Award has been granted challenges the Award for any reason in a court of law, it shall make an interim payment to the other Party for an amount equal to 75% (seventy five per cent) of the Award, pending final settlement of the Dispute. The aforesaid amount shall be paid forthwith upon furnishing an irrevocable Bank Guarantee for a sum equal to 120 % (one hundred and twenty per cent) of the aforesaid amount. Upon final settlement of the Dispute, the aforesaid interim payment shall be adjusted and any balance amount due to be paid or returned, as the case may be, shall be paid or returned with interest calculated at the rate of 10% (ten per cent) per annum from the date of interim payment to the date of final settlement of such balance.

#### 25.4 Adjudication by Regulatory Authority, Tribunal or Commission

In the event of constitution of a statutory regulatory authority, tribunal or commission, as the case may be, with powers to adjudicate upon disputes between the Contractor and the Authority, all Disputes arising after such constitution shall, instead of reference to arbitration under Clause 25.3, be adjudicated upon by such regulatory authority, tribunal or commission in accordance with the Applicable Law and all references to Dispute Resolution Procedure shall be construed accordingly. For the avoidance of doubt, the Parties hereto agree that the adjudication hereunder shall not be final and binding until an appeal against such adjudication has been decided by an appellate tribunal or court of competent jurisdiction, as the case may be, or no such appeal has been preferred within the time specified in the Applicable Law.

26 Deleted

### B. Time Control

#### 27. Programme

- 27.1 The Engineer shall issue all the site locations to the contractor immediately after signing of agreement. The Contractor shall submit to the Engineer for approval a programme within the time stipulated in the Contract Data showing the general methods, location of fabrication factory, arrangements, order, and timing for all the activities in the Works, along with monthly cash flow forecasts.
- 27.2 An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities.
- 27.3 The Contractor shall submit to the Engineer for approval an updated Programme at intervals. If the Contractor does not submit an updated Programme within this period, the Engineer may withhold the amount stated in the Contract Data from the next

payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Programme has been submitted.

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

## **28. Extension of the Intended Completion Date**

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

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

## **29. Delays Ordered by the Engineer**

- 29.1** The Engineer may instruct the Contractor to delay the start or progress of any activity within the Works.

## **30. Management Meetings**

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

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

## **C. Quality Control**

### **31. Identifying Defects**

- 31.1** The Engineer shall check the Contractor's work and notify the Contractor of any Defects that are noticed. Such checking shall not absolve the contractor from its obligations and its responsibilities.. The Engineer may instruct the Contractor to

search for a Defect and to uncover and test any work (existing work/work executed by the contractor) that the Engineer considers may have a Defect.

### **32. Tests**

32.1 The contractor shall be solely responsible for:

- a. Carrying out the mandatory tests prescribed in the technical specifications forming part of contract.
- b. For the correctness of the test results, whether performed in his laboratory or elsewhere.
- c. The Authority may engage third party for testing of executed items. The payment for the same would be made by the Authority.

32.2 If the Engineer instructs the Contractor to carry out a test not specified in the Specification to check whether any work (executed by the contractor) has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no defect, the cost of such tests shall be borne by the Authority otherwise by the Contractor.

### **33. Correction of Defects noticed during the Defect Liability Period.**

33.1 The Engineer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion and is defined in the Contract Data. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.

33.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the reasonable time specified by the Engineer's notice as per good industry practice. If any defect including shrinkage cracks, other faults appears in the work within defect liability period, the Engineer shall give Notice to the Contractor of such defects before end of defect liability period and shall extend the defect liability period as long as defects remain to be corrected.

### **34. Uncorrected Defects/ Incomplete Works**

34.1 If the Contractor has not corrected the Defect, to the satisfaction of the Engineer, within the time specified in the Engineer's notice/indent, the Engineer will assess the cost of having the Defect corrected and get the defects rectified through some other agency and the Contractor will pay 1.2 times of this amount.

34.2 If the Contractor has not completed the work to the satisfaction of the Engineer, within the time specified in the Engineer's notice/indent, in no case exceeding one month, the Engineer will assess the cost of having the work completed and get the work completed through some other agency and the Contractor will pay this amount in addition to the damages specified as per clause 45.

## **D. Cost Control**

### **35. Bill of Quantities**

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

35.2 The Bill of Quantities is used to calculate the Contract Price. The Contractor is paid as per clause 40.2 for the quantity of the work done at the rates in the Bill of Quantities for each item for the work executed.

### 35.3 Changes in the Quantities

- (i) The quantities mentioned in Bill of Quantities may vary for which variations as per clause 36 will be issued.
- (ii) Also the Engineer may instruct the contractor for increase in area of Office cum Residence for which payment as per clause 37.4 will be released.

### 36. Variations

36.1 All variations shall be included in updated programmes produced by the Contractor. The Engineer shall, having regard to the scope of the Works and the sanctioned estimated cost, have power to order +/- 50% of original BOQ value of single BOQ item subject to maximum of +/- 25% of original Contract value.

### 37. Payments for Variations

37.1 If rates for Variation items are specified in the Bill of Quantities, the Contractor shall carry out such work at the same rate.

37.2 If the rates for Variation are not specified in the Bill of Quantities, the Engineer shall derive the rate from similar items in the Bill of Quantities and if it cannot be derived from similar item in Bill of Quantities then the rate will be derived as per Clause 37.3.

37.3 The Contractor shall, within 14 days of the issue of order of Variation work, inform the Engineer the rate which he proposes to claim, supported by analysis of the rates. The Engineer shall assess the quotation and determine the rate based on prevailing market rates within one month of the submission of the claim by the Contractor and approval from NHIDCL will be taken. As far as possible, the rate analysis shall be based on the standard data book and the current schedule of rates of the district public works division.

37.4 For increase in area of OCR, the payment for unit increase (per square meter) in carpet area shall be calculated by dividing the rates of item No. 1 of BoQ by 125 sq.m.. No payment due to increase in corridor area shall be payable.

### 38. Cash Flow Forecasts

38.1 When the Programme is updated, the Contractor shall provide the Engineer with an updated cash flow forecast.

### 39. Payment Certificates

39.1 The Contractor shall submit to the Engineer in accordance of clause 40.2 the value of the work executed with supporting documents such as invoice of purchase items.

- 39.2** The Engineer shall check the Contractor's statement within 7 days and certify the amount to be paid to the Contractor after taking into account any credit or debit for the month in question.
- 39.3** The value of work executed shall be determined, based on measurements by the Engineer.
- 39.4** The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- 39.5** The value of work executed shall also include the valuation of Variations and Compensation Events.
- 39.6** The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information to rectify the mistakes with detail justification acceptable to Employer.
- 39.7** The final bill shall be submitted by the contractor within one month of the actual date of completion of the work; otherwise the Engineers certificate of the measurement and of the total amount payable for work accordingly shall be final and payment made accordingly within a period of sixty days.
- 40. Payments**
- 40.1** Payments shall be adjusted for deductions for advance payments, security deposit, other recoveries in terms of the Contract and taxes at source, as applicable under the law. The Employer shall pay the Contractor the amounts Engineer had certified within 14 days of the date of each certificate.
- 40.2** The contractor shall submit to the Engineer bill in two copies after the completion of stage given in table below:

S.N.	Description of Item	Payment Procedure
1.	Construction and installation of prefabricated office cum residence (OCR) alongwith store & gen-set area (duly connected with main office) including PUF insulated 1000 ltr water tank and Septic tank as per the DRDO approved design at various locations given in the bid. The work has to be carried out as per approved design, drawing by the engineer, as per contract specifications. The structure shall be designed for +20 to -45 deg C temperature; special grade steel shall be used to withstand extreme temperature difference. Wall cladding shall be of PUF panels made up of 120 mm thick composite PUF sandwich between 0.5 mm PPGI sheets both sides. The panels shall be made of PPGI on both sides with 80/100 mm thick layer of rigid CFC free polyurethane foam of density of 40+2 kg/m <sup>3</sup> as insulation. The wall panels shall have tongue & Groove arrangement and inter cam lock system. PPGI sheet shall have minimum coating of 4-5 – micron epoxy primer and 25 microns polyester top coat on the finish surface and 7-8-micron primer alkyl base on reverse. The Partition wall shall be made with framed structure with suitable insulation and cement boards. All the internal face of wall shall be covered with 12 mm BWR ply. The work also include the foundation, ramp, corridor and other base work. All the electrical wiring shall be multi strand copper wire with ISI mark having low smoke & fire-resistant properties. All switches & fittings shall be modular type and all luminous shall be of higher efficiency, Specialized Grade PPR plumbing (as per IS specification) with insulation fixtures, durable accessories and providing & Installation of improved space heating kerosene oil based device (Bukhari) complying with the specifications of DIPAS, DRDO. The work shall be completed in all respect as per the approved design, drawings and specifications.	<ol style="list-style-type: none"> <li>1. <b>15%</b> payment on approval of design &amp; drawings and a Prototype at fabrication yard/factory by Engineer.</li> <li>2. <b>25%</b> payment on approval of material at factory/warehouse before dispatch to site.</li> <li>3. <b>40%</b> payment on receipt of all material at site.</li> <li>4. <b>20%</b> payment on Installation and completion of OCR and its acceptance by Engineer and MoHA.</li> </ol>
2.	Providing furniture, kitchen platform, wall cabinet, room heaters, mattress, pillow, etc in each office cum residence as per details given in Section - VI under clause B of brands/make approved by the engineer confirming to specifications of BIS.	<ol style="list-style-type: none"> <li>1. <b>70%</b> payment on receipt of all the furniture of OCR at site location.</li> <li>2. <b>30%</b> payment on installation of furniture in all respect and approval of Engineer in charge.</li> </ol>
3.	Supply & Installation of two numbers three phase silent DG set of 10 kVA with suitable AMF Panel suitable for 10 kVA DG set (AMF inside the DG set shed) and 2 KW Solar off-Grid on rooftop with 6 to 8 hours backup as per specifications of MNRE.	<ol style="list-style-type: none"> <li>1. <b>50%</b> payment release on purchase of DG sets and confirmation of supply for each office date by the manufacturer.</li> <li>2. <b>50%</b> payment release after installation and approval of Engineer in charge of each office.</li> </ol>

**Note:**

1. All the materials used for this work shall be of Indian Origin.
2. Contractor will be required to submit copies of all the Tax paid Invoices for purchase of materials, machines, equipment, furniture for this work.

3. Transportation cost for all the material, manpower, equipment are deemed included in the rates.

#### 41. Compensation Events

41.1 The following shall be Compensation Events unless they are caused by the Contractor:

- a) The Employer modifies the Schedule of other contractors in a way which affects the work of the contractor under the Contract.
- b) The Engineer orders a delay or does not issue drawings, specifications or instructions required for execution of works in reasonable time
- c) The Engineer instructs the Contractor to uncover or to carry out additional tests upon work which is then found to have no defects.
- d) The Engineer gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.
- e) Other contractors, public authorities, utilities or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.
- f) The effect on the Contractor of any of the Employer's Risks.

41.2 If a Compensation Event would prevent the Works being completed before the Intended Completion Date, the Intended Completion Date shall be extended. The Engineer shall decide whether and by how much the Intended Completion Date shall be extended after the approval of the employer.

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

#### 42. Currencies for payments

42.1 All payments will be made in Indian Rupees.

43. Deleted

#### 44. Security Deposit / Retention Money

44.1 The Employer shall retain security deposit of five percent of the amount from each payment due to the Contractor until Completion of the whole of the Works.

44.2 The security deposit/retention money and the performance security will be released to the Contractor when the Defect Liability period is over, and the Engineer has certified that the Defects, if any, notified by the Engineer to the Contractor before the end of this period have been corrected.

44.3 If the contractor so desires then the Security Deposit/retention money can be released on submission of unconditional Bank Guarantee at the following two stages:-

- (a) At a point after the progress of work in financial term (gross value of work done) has reached 50% of the contract amount

- (b) After the retention money has been deducted to the full value (5% of the Contract Amount).

#### **45. Liquidated Damages**

- 45.1** The Contractor shall pay liquidated damages to the Employer at the rate or part thereof stated in the Contract Data for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Employer may deduct liquidated damages from payments due to the Contractor and/ or Performance Bank Guarantee. Payment of liquidated damages shall not affect the Contractor's other liabilities.
- 45.2** If the Intended Completion Date is extended after liquidated damages have been paid, the Engineer shall correct any overpayment of liquidated damages by the Contractor by adjusting in the next payment certificate. The contractor shall not be paid interest on the over payment of liquidated damages.

#### **46. Advance Payment**

**Deleted**

#### **47. Securities**

- 47.1** Subject to further condition in contract data, the Performance Security equal to ten percent of the contract price shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in the form given in the Contract Data and by a prescribed bank. The Performance Security shall be valid until a date 28 days after the expiry of Defect Liability Period The validity shall account for additional 45 days time to account for BG verification, signing of contract and start date

#### **48. Cost of Repairs**

- 48.1** Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Liability Period shall be remedied/ rectified by the Contractor at their cost if the loss or damage arises from the Contractor's acts or omissions.

### **E. Finishing the Contract**

#### **49. Completion**

- 49.1** When the whole of the works has been completed as per the provision of the Contract, the Contractor shall request the Engineer to issue a certificate of Completion of the Works. The Engineer shall, within 14 days of the date of receipt of such request, either issue to the Contractor, with a copy to the Employer, a completion certificate, stating the date on which, the works were completed in accordance with the contract, or give instructions in writing to the contractor specifying all the work which, in the Engineer's opinion, is required to be done by the Contractor before the issue of such certificate.

## 50. Taking Over

50.1 The Employer shall take over the Site and the Works within fifteen days of the Engineer's issuing a certificate of Completion.

## 51. Final Account

51.1 The Contractor shall supply to the Engineer with a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Engineer shall issue a Defects Liability Certificate and certify any final payment that is due to the Contractor within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, the Engineer shall issue within 56 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Engineer shall decide on the amount payable to the Contractor and issue a payment certificate within 56 days of receiving the Contractor's revised account.

## 52. "As built" Drawings

52.1 Contractor is required to submit As built drawing for the work executed before release of final payment.

## 53. Termination/Foreclosure

53.1 The Employer may terminate the Contract if the Contractor causes a fundamental breach of the Contract.

53.2 Fundamental breaches of Contract include, but shall not be limited to, the following:

- a) the Contractor stops work for 28 days when no stoppage of work is shown on the current Programme and the stoppage has not been authorized by the Engineer;
- b) the Contractor is declared as bankrupt or goes into liquidation other than for approved reconstitution or amalgamation;
- c) the Engineer/Employer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
- d) the Contractor does not maintain a Security, which is required;
- e) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in clause 45;
- f) the Contractor fails to provide insurance cover as required under clause 13;
- g) if the Contractor, in the judgement of the Employer, has engaged in the corrupt or fraudulent practice in competing for or in executing the Contract. For the purpose of this paragraph, " **Corrupt practice**" means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bidding Process (For avoidance of doubt, offering of employment to, or employing, or engaging in any manner whatsoever, directly or

indirectly, any official of the Authority who is or has been associated in any manner, directly or indirectly, with Bidding Process, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the Authority, shall be deemed to constitute influencing the actions of a person connected with the Bidding Process);

- h) “**Fraudulent practice**” means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process; if the Contractor has not completed at least thirty percent of the value of Work required to be completed after half of the completion period has elapsed;
- i) if the Contractor fails to set up a field laboratory with the prescribed equipment, within the period specified; and
- j) any other fundamental breach as specified in the Contract Data.

**53.3** Without prejudice to any other right or remedies which the Employer may have under this contract, upon occurrence of a Contractor’s fundamental breach of contract, the Employer shall be entitled to terminate this contract by issuing a Termination Notice to the Contractor ; provided that before issuing the Termination Notice, the Employer shall by a Notice inform the Contractor of its intention to issue such Termination Notice and grant 15 days to the Contractor to make a representation, and may after the expiry of such 15 days, whether or not it is in receipt of such representation, issue the Termination Notice.

**53.4** Notwithstanding the above, the Employer may terminate the Contract for convenience.

**53.5** If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible but in no case later than 7 days.

**53.6 Foreclosure-** NHIDCL may foreclose the contract before the expiry of the scheduled contract period due to administrative decision by giving one month Notice.

#### **54. Payment upon Termination / Foreclosure**

**54.1** If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as indicated in the Contract Data. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer and Employer may recover the same from Performance Bank Guarantee.

#### **55. Property**

**55.1** All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer for use for completing balance work if the Contract is terminated because of the Contractor's fundamental breach of contract.

#### **56. Release from Performance**

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

## F. Other Conditions of Contract

### 57. Labour

57.1 The Contractor shall, make arrangements of his own cost and expenses for the engagement of all staff and labour, local or others; for their payment, housing, feeding and transport; and for compliance with various labour laws/ regulations.

57.2 The Contractor shall, as asked by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Engineer may require.

### 58. COMPLIANCE WITH LABOUR REGULATIONS

58.1 During the currency of the Contract, the Contractor and his sub Contractors shall abide at all times by all existing labour enactments and rules made thereunder, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be notified already or that may be notified under any labour law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that are applicable to construction industry are given below. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made thereunder, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct any money due to the Contractor including from his performance security/ retention money. The Employer/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer. The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

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

a) **Workmen Compensation Act 1923:** - The Act provides for compensation in case of injury by accident arising out of and during the course of employment.

- b) **Payment of Gratuity Act 1972:** - Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed the prescribed minimum years (say, five years) of service or more or on death the rate of prescribed minimum days' (say, 15 days) wages for every completed year of service. The Act is applicable to all establishments employing the prescribed minimum number (say, 10) or more employees.
- c) **Employees P.F. and Miscellaneous Provision Act 1952:** The Act Provides for monthly contributions by the Employer plus workers at the rate prescribed (say, 10% or 8.33%). The benefits payable under the Act are:
- i. Pension or family pension on retirement or death as the case may be.
  - ii. Deposit linked insurance on the death in harness of the worker.
  - iii. Payment of P.F. accumulation on retirement/death etc.
- d) **Maternity Benefit Act 1951:** - The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.
- e) **Contract Labour (Regulation & Abolition) Act 1970:** - The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided, by the Principal Employer by Law. The principal Employer is required to take Certificate of Registration and the Contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer if they employ prescribed minimum (say 20) or more contract labour.
- f) **Minimum Wages Act 1948:** - The Employer is to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act if the employment is a scheduled employment. Construction of buildings, roads, runways are scheduled employment.
- g) **Payment of Wages Act 1936:** - It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.
- h) **Equal Remuneration Act 1979:** - The Act provides for payment of equal wages for work of equal nature to male and female workers and for not making discrimination against female employees in the matters of transfers, training and promotions etc.
- i) **Payment of Bonus Act 1965:** - The Act is applicable to all establishments employing prescribed minimum (say, 20) or more workmen. The Act provides for payments of annual bonus within the prescribed range of percentage of wages to employees drawing up to the prescribed amount of wages, calculated in the prescribed manner. The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. States may have different number of employment size.
- j) **Industrial Disputes Act 1947:** - The Act lays down the machinery and procedure for resolution of industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.

- k) **Industrial Employment (Standing Orders) Act 1946:** - It is applicable to all establishments employing prescribed minimum (say, 100, or 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and get these certified by the designated Authority.
- l) **Trade Unions Act 1926:** - The Act lays down the procedure for registration of trade unions of workmen and Employers. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.
- m) **Child Labour (Prohibition & Regulation) Act 1986:** - The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulations of employment of children in all other occupations and processes. Employment of child labour is prohibited in building and construction industry.
- n) **Inter-State Migrant Workmen's (Regulation of Employment & Conditions of Service) Act 1979:** - The Act is applicable to an establishment which employs prescribed minimum (say, five) or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as Housing, Medical-Aid, Travelling expenses from home up to the establishment and back etc.
- o) **The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996:** - All the establishments who carry on any building or other construction work and employs the prescribed minimum (say, 10) or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the building or construction work and other welfare measures, such as canteens, first-aid facilities, ambulance, housing accommodations for workers near the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.
- p) **Factories Act 1948:** - The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing the prescribed minimum (say, 10) persons or more with aid of power or another prescribed minimum (say, 20) or more persons without the aid of power engaged in manufacturing process.

## 59. Drawings and Photographs of the Works

- 59.1 The contractor shall do photography/videography of the site firstly before the start of the work, secondly mid-way in the execution of different stages of work and lastly after the completion of the work. No separate payment will be made to the contractor for this.
- 59.2 The Contractor shall not disclose details of Drawings furnished to him and works on which he is engaged without the prior approval of the Engineer in writing. No photograph of the works or any part thereof or plant employed thereon, shall be taken or permitted to be taken by the Contractor or by any of his employees or any employees

of his sub-Contractors without the prior approval of the Employer in writing. No photographs/ Videography shall be published or otherwise circulated without the approval of the Employer in writing.

Contract Data

Clause Reference

Items marked “N/A” do not apply in this Contract.

1.1

1. The Employer is [Cl.1.1]  
Managing Director, NHIDCL  
Address: 2<sup>nd</sup> Floor, PTI Building, Parliament Street -4, NHIDCL, New Delhi  
Name of authorized Representative: Ashok Kumar Singh, General Manager (Tech),
2. The Engineer is:  
Designation: Executive Director  
Address: NHIDCL [Cl.1.1]
3. The Intended Completion Date for the whole of the Works is 9 months [Cl.1.1, 17&28]  
from start date.
4. Site is located in the state of Arunachal Pradesh, Sikkim and Uttarakhand. [Cl.1.1]
5. The Start Date shall be within 7 days after the date of issue of the Notice to [Cl.1.1]  
Proceed with the work.
6. (a) The name and identification number of the Contract “**Construction and Installation of prefabricated Office cum Residence in the States of Arunachal Pradesh, Sikkim & Uttarakhand in high altitude remote areas.**” [Cl.1.1]
- (b) The Work consist of “**Construction and Installation of prefabricated Office cum Residence in the States of Arunachal Pradesh, Sikkim & Uttarakhand in high altitude remote areas.**” [Cl.1.1]
- 3.1 (a) The law which applies to the Contract is the law of Union of India. [Cl.3.1]  
(b) The language of the Contract documents is English [Cl.3.1]
- 7.1 The limit of subcontracting is 50% [Cl.7.1]
- 8.1 Schedule of Other Contractor - NIL [Cl 8.1]  
13.1. Amount for insurance are: [Cl.13.1]  
a) Rupees equivalent to Contract price.  
b) Rupees equivalent to 5% of Contract price.  
c) Rupees equivalent to 5% of contract price  
d) Rupees 20 lakhs for multiple incidents.  
And deductible as per premium rate.

14.1 Site Investigation Report - NIL [Cl 14.1]

27.3 Amount to be withheld for delays in submission of updated programme : Rs. 10,000 per day

33 The Defects Liability Period for all items under the work is 12months from the date of completion of the works.

45.1 (a) Amount of liquidated damages for delay in completion of works 0.05 percent of the Contract price, rounded off to the nearest thousand, per day with the minimum of Rs. 100000/- per day

(b) Maximum limit of liquidated damages for delay in completion of work. 5 per cent of the Initial Contract Price rounded off to the nearest thousand

[Cl.45.1]

47.1. The standard form of Performance Security acceptable to the Employer shall be an unconditional Bank Guarantee of the type as specified in the Bidding Documents.

[Cl. 47.1]

54.1. The percentage to apply to the value of work not completed representing the Employer's additional cost for completing the work shall be 20%.

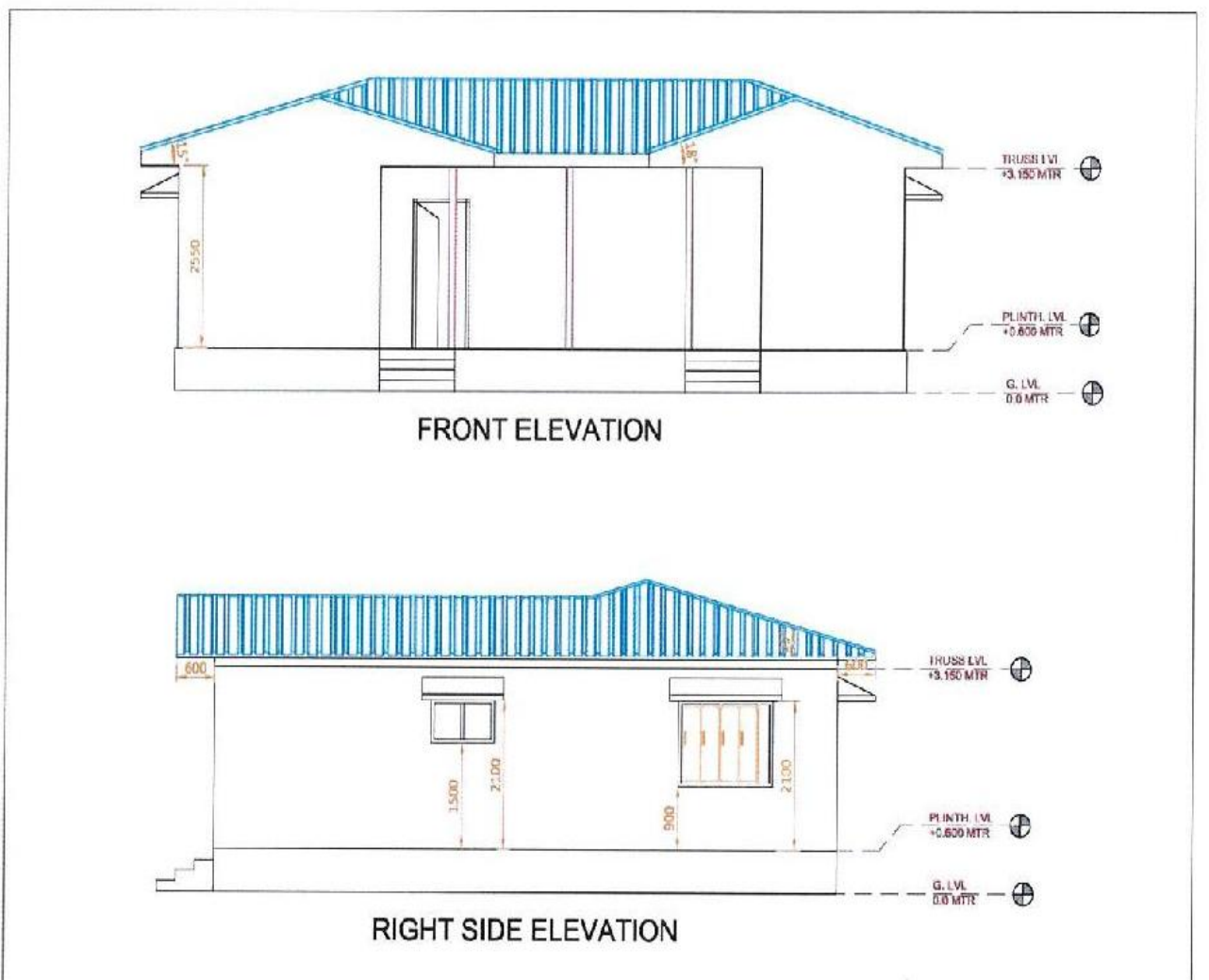
[Cl.54.1]

SECTION - VI

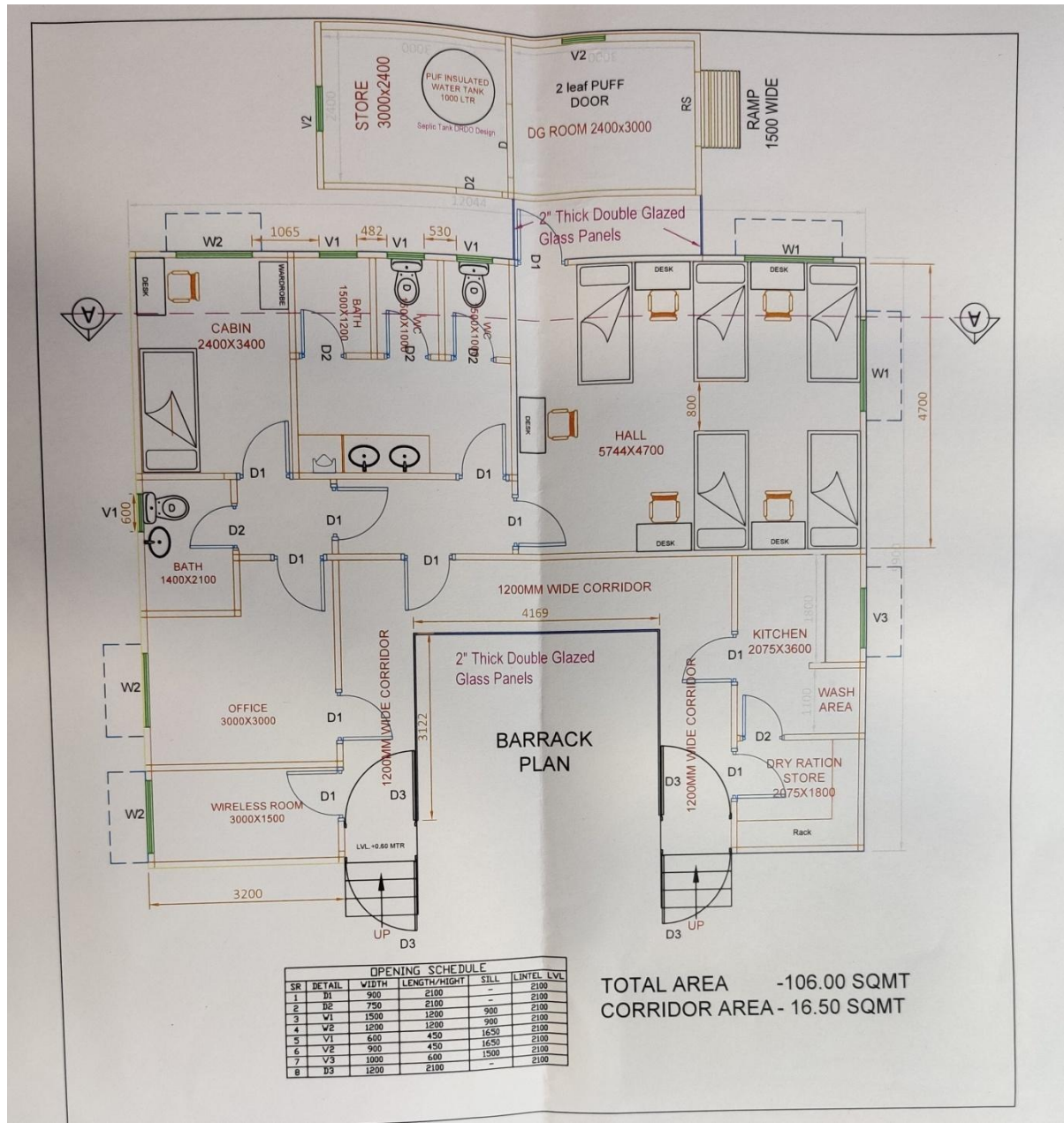
Scope of work, Technical specifications and Drawings

A. For BOQ item no. 1

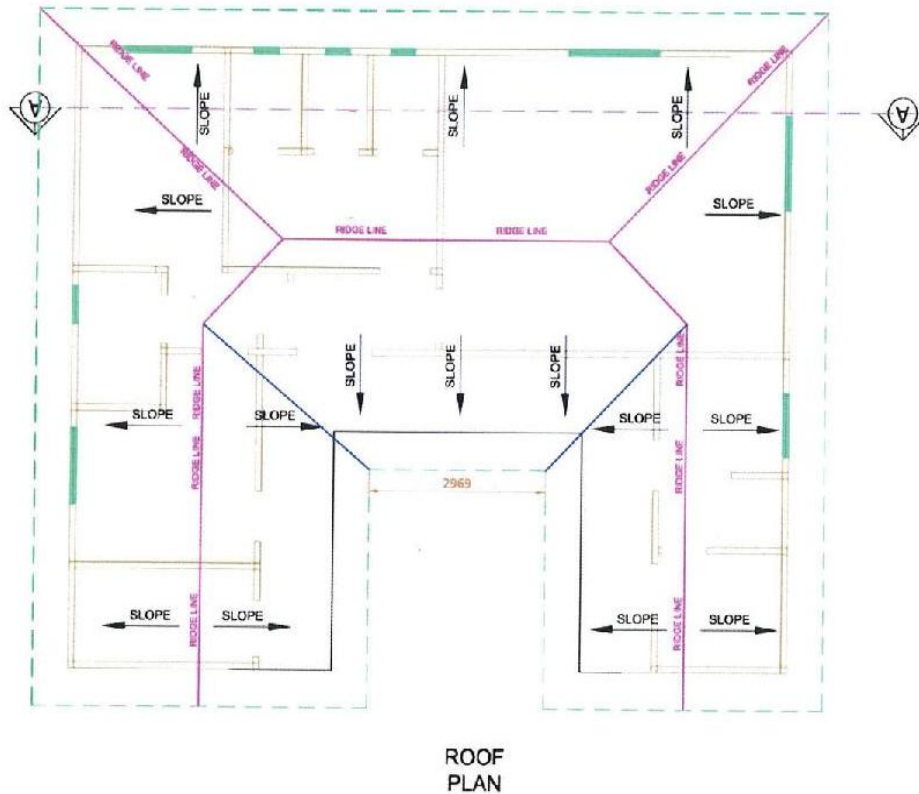
The contractor is required to Construct and Install the pre-fabricated office cum residence in the states and locations given in the bid document based on the drawings given below:



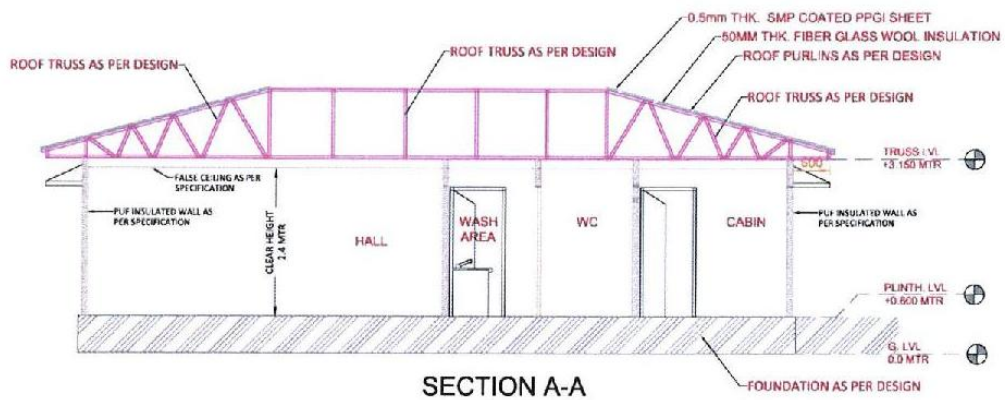
Elevation of Office cum Residence



**Plan for office cum residence including location of Water Tank, Septic Tank, Store & Gen-Set**



**Roof plan of Office cum Residence**



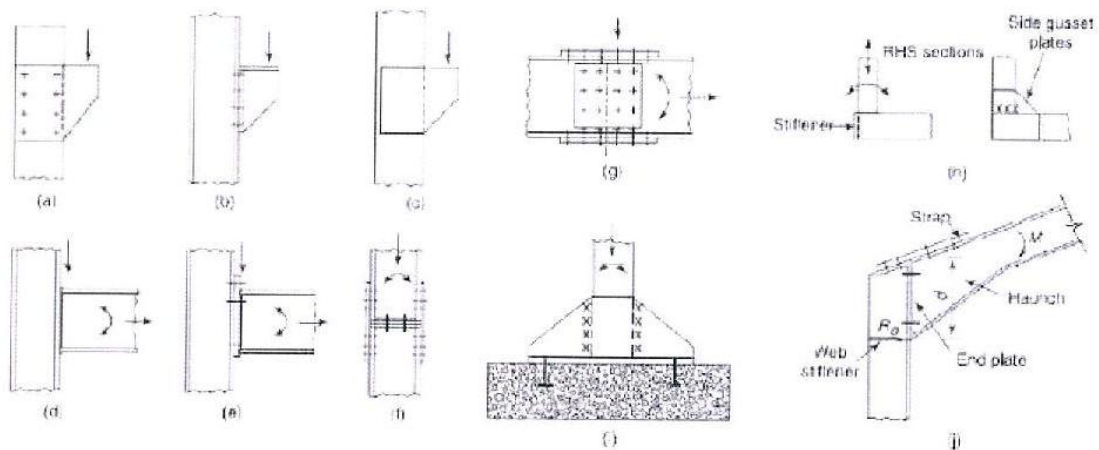
**Section A-A of Office cum Residence**

**Basic Features of the Office cum Residence shall be as given below:**

1. **Foundation** - The foundation shall be made as per site conditions.
2. **Structures** - The structures shall be made of Fabricated Hot rolled steel IS 2062-F250-350 Mpa, shot blasted with SA 2.5 duly painted with 1 coat of priemer of 25 micron and 1 coat of syenthetice enamel of 35micron.

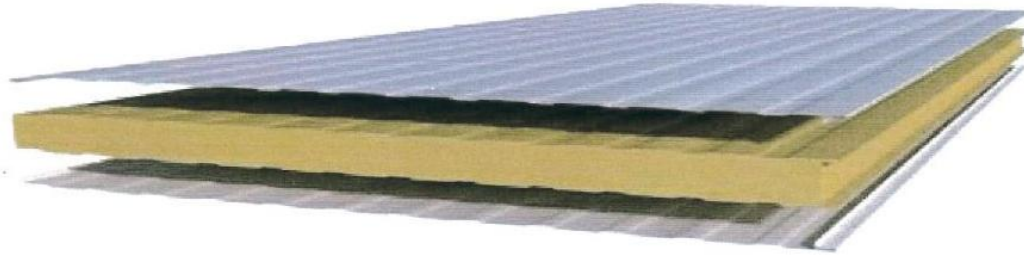


3. **Connections** All site connections shall be Bolted with Grade 8.8 , nuts and bolt of appropriates sizes as per design.

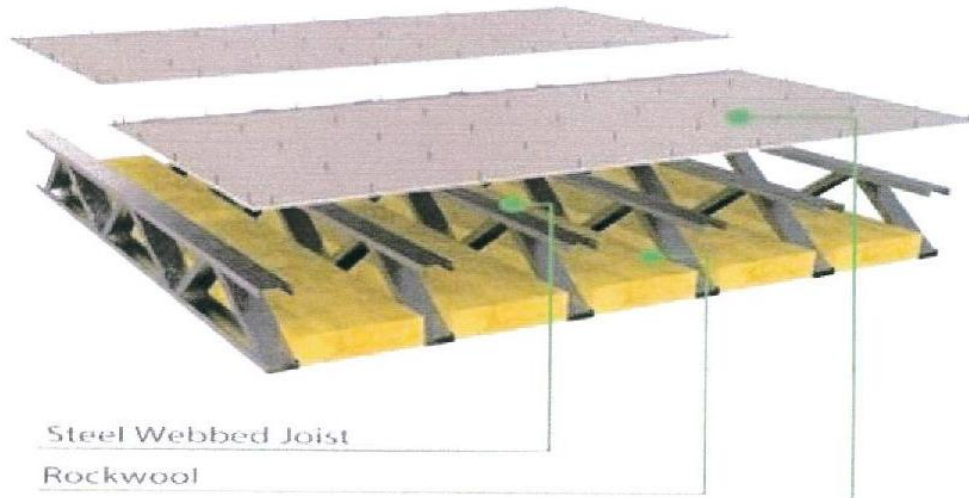


4. **Wall** - The main wall shall be made up of 80/120 mm thick composite PUF sandwich between 0.5mm PPGI sheets both side. The panels shall be made of PPGI on both Sides with 80/120 mm thick layer of rigid CFC free polyurethane foam of density of  $40 \pm 2$  kg/m<sup>3</sup> as insulation. The wall panels will have tongue & Groove arrangement and

interlocked using cam lock system. PPGI sheet shall have minimum coating of 4-5 micron epoxy primer and 25 micron polyester top coat on the finish surface and 7-8 micron primer alkyl base on reverse. Color Shall be preferably RAL 9002 - Off white or RAL 5012 - Blue.



5. **Floor Slab** - Fibre Cement Boards of 12mm + 12 mm with insulation of Rockwool of 24 kg/cum



General specifications and scope is as below:

- I. Fabrication, Erection, Construction and installation of prefabricated office cum residence (OCR) along with store & gen-set area (duly connected with main office) including PUF insulated 1000 ltr water tank and Septic tank as per the DRDO approved design at various locations given in the bid. **The all works of sanitary & water supply must using AFS (Antifreeze systems) or better engineering technology practice in heavy snow fall area .**The work has to be carried out as per approved design, drawing by the engineer. The structure shall be designed for +20 to -45 deg C temperature; special grade steel shall be used to withstand extreme temperature difference. Wall cladding shall be of PUF panels made up of **120 mm** thick composite PUF sandwich between 0.6 mm PPGI sheets both sides. The panels shall be made of PPGI on both sides with **120 mm** thick layer of rigid CFC free polyurethane foam of density of 40+2 kg/m<sup>3</sup> as insulation. The wall panels shall have tongue & Groove arrangement and inter cam lock system. PPGI sheet shall have minimum coating of 4-5 - micron epoxy primer and 25 microns polyester top coat on the finish surface and 7-8-micron primer alkyl base on reverse. The Partition wall shall be made with framed structure with suitable insulation and cement boards. All the internal face of wall shall be covered with 12 mm BWR ply. The work also include the foundation, ramp, corridor, insulated water tank, pipeline, septic tank, shed for gen-set, store room, bukhari, electric installations, geyser, taps, door, windows, flooring, and other base work. **In the corridor DGU glass panels to be provide.** All the electrical wiring shall be multi strand copper wire with ISI mark having low smoke & fire-resistant properties. All switches & fittings shall be modular type and all luminous shall be of higher efficiency, Specialized Grade PPR plumbing (as per IS specification) with insulation fixtures, durable accessories and providing & Installation of improved space heating kerosene oil based device (Bukhari) complying with the specifications of DIPAS, DRDO. The work shall be completed in all respect as per the approved design, drawings and specifications. All works shall be executed as per Indian codes and established best engineering practices.

**Note:**

1. All structures should be design on basis complete investigation such as amount of snow fall ,type of strata, wind speed ,seismic analysis various loads etc. as per CPWD and latest code provision and best engineering practices at their own cost.
2. These design should be vetted from the reputed IIT/NIT/ Govt. institution and approved by the Engineer in Charge at their own cost.

**B. For BOQ item no. 2**

The contractor is required to provide furniture, kitchen platform, wall cabinet, room heaters, mattress, pillow, etc in each office cum residence as per details given

below of brands approved by the engineer confirming to specifications of OCR.

Sr. No	Item	Qty (in each OCR)
1.	Engineered wood single bed box type of size 6ft x 3ft with box height of 18” to 21” with elegant mahogany finish glassy look free from harm full chemicals and toxins	6
2.	Ultra bonded foam Mattress for bed of matching size and 4” thickness of approved brand.	6
3.	Bedsheets as approved by the engineer for bed	18
4.	Blankets (Raymond’s or equivalent make)	12
5.	Pillow with cover matching the bedsheet	12
6.	Study table of particle board with storage of size 4ft x 3.5ft of Godrej or equivalent make	6
7.	Executive Chairs with adjustable seat height of approved colour of Godrej or equivalent make	12
8.	Executive Office Table with drawers of size 4ft x 3.5ft alongwith side table and storages	1
9.	Geysers of minimum 25 ltr capacity ISI mark	4
10.	Halogen Room Heaters of 1200 W, Auto revolving and swing control	6
11.	Kitchen Platform in L-shape with storage as per the size of kitchen alongwith wall cabinets above the platform all along	1
12.	Space heating Kerosine oil based device (Bukhari)	8

The details of the above are given below for reference purpose:

## 2. BED- Engineered Wood Single Bed (BOX BED)

- Premium quality engineered wood structure which has had more than 20 safety an
- Smooth edges for protection against accidental scrapes and cuts
- Underwent dynamic loading tests for 21,000 cycles and edge stability tests for 10,000 cycles
- Capable of withstanding loads of up to 225kg.
- Elegant caramel mahogany finish which gives it a glossy look and makes it easy
- Made with high quality European standard particle board for durability
- Tested for resistance against humidity to ensure longevity
- Free from harmful chemicals and toxins to facilitate safe use.



3. **Mattress** - Ultra Bonded Foam Mattress.

- its Exceptionally Fine Cell Structure Gives A Superior Feel And Performance
- Comfortable Restorative Sleep Night After Night
- Size: (LXBXH) 72x35x90



4. **Foldable Study Table** - Engineered Wood Study Table -

Material: Particle Board

Configuration: Straight

Height x Width: 120 cm x 109.7 cm (3 ft 11 in x 3 ft 7 in)

Storage Included

Knock Down - Delivered in non-assembled pieces, installation by service partner



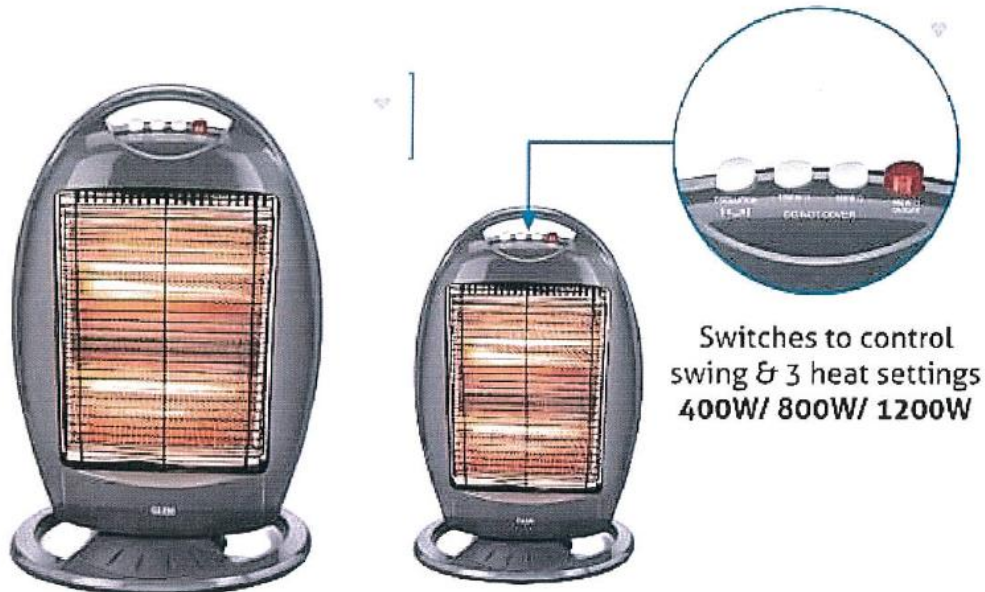
5. Office Chairs - Office Executive Chair (Black)  
Adjustable Seat Height  
W x H: 60 cm x 103 cm (1 ft 11 in x 3 ft 4 in)  
Frame Material: Metal  
Upholstery Type: Cushion



6. Office Table - Elegant Engineered Wood Office Table  
Material: MDF (Medium Density Fiber)  
Configuration: Straight  
Height x Width: 75 cm x 200.5 cm (2 ft 5 in x 6 ft 6 in)  
Storage Included



7. Room Heater - 1200 Watt Halogen Room Heater  
Power Consumed: 1200 W  
Overheat Protection  
Auto-revolving Heater Accommodation



8. Wall Cabinets - Wall cabinets at 4 feet height, 24in x 18in shall be with study table the wall is considered.
10. Kitchen Platform-



## 11. Doors & Windows

### ❖ Doors:

- Solid Core Flush doors or Laminated Flush Doors of thickness 35mm to be used as per the details given in the drawing. These doors are made from combination of blockwood /particle board / Medium Density Fibreboard (MDF)/Laminated core, cross band, face veneer, etc. With glazed opening.

### ❖ Windows & Ventilators:

- uPVC Double Glazed Unit (hardened) glass window with multi-panel, having EPDM Gasket as per the details given in drawing. It is shall useful in snow bound area.
- uPVC frames are reinforced with galvanized steel where additional structural strength is required.

### • Water supply & Sanitary work

- All construction should be done in conformity to DRDO specifications with AFS (Antifreeze systems) in sewage water and fresh water system or better engineering practice in heavy snow fall area and approved by Engineer in Charge.
- All fresh water pipes shall be Aluminium and polyethylene composite pipes. Composite pipes confirming to IS 15450:2004.
- Pressure rating of pipes shall 13.8 kg/cm<sup>2</sup> at 23°C. All fittings shall be composite type compression fittings.
- Pipes shall be Jindal/ Kitec etc. make.
- Pipes shall be insulated using 25 mm thick XLPE Insulation Foam and heat traced using self-regulated PVC Insulated heating wire of 10 W/M to 40 W/M Capacity .

### OVER HEAD WATER TANK -

- Tank of 1000l capacity shall be provided above the false ceiling.
- Heating tape / immersion heater with thermostat control shall be provided to the tank to heat up water to desired temperature.
- 25 mm thick XLPE insulation will be provided on all sides of the tank.
- Tank must be suitable for -40degree c..

### HEAT TRACING -

- Heat tracing of pipes shall be done throughout the fresh water supply lines to restore the system in case of freezing of pipes. The heat tracers shall be Nichrome wire based.

The power consumption shall be 25W/ rn.m. The tape shall be powered through an emergency switch. The tape shall be coiled along the pipes.

#### **CIRCULATION MOTOR -**

Two motor (one main and one standby with a bypass connection) of 40W rating shall be provided on the loop. The motor shall circulate water in the lines continuously to prevent stagnation and frosting.

#### **• Roof Slope**

Slope of roof must be taken as 1:2. Also, either 0.6 mm thick PPGI Sheet with Glass wool insulation or 70 mm thick PUF sandwich with Trapezoidal profile top sheets can be used as roof Panels.

#### **• False Ceilings**

False ceiling of 40 mm of PUF Sandwich Panel to be used which confirms to IS 12436, IS 7888 and shall be manufactured on line PUF Panel manufacturing machine.

#### **Suggestive details:**

- Panel weight - 10.20 Kg  $\pm$  0.1/ sq.m.
- Panel thickness - 30mm.
- With CFC free polyurethane foam of density 40 kg  $\pm$  2 kg/ m<sup>3</sup> .
- The PUF panels shall have tongue and groove type of joint .
- Reflectivity - 66%  $\pm$  2%

#### **• Flooring**

PVC Linoleum flooring to be used. Floor Panel to be supported on Civil Foundation or on Steel Structure with either using of Fiber Board with Rockwool Insulation or PUF Panels made in PUF panel system using 0.6 mm thick PPGI as outer skin and 19mm thick marine Ply as per IS 303 or 12 mm hick Fiber Board as inner skin with and gap filled with 60mm thick layer of rigid CFC free polyurethane foam of density 40 kg  $\pm$  2kg / cum as Insulation with two number reinforcement tube of size 60 x 40 x 1.7 mm thick. And Approved by Engineer in charge. Heavy duty 10 mm thick vitrified tiles of 300 X 300 mm (vitrified) or PVC Floor in Living Area. Toilets must have anti skid tiles fixed using epoxy based tile chemical and joints filled with epoxy grout. And as approved by Engineer in charge.

#### **• Partition walls:**

The Partition wall either shall be made with framed structure with suitable insulation and cement boards. All the internal face of wall shall be covered with 12 mm BWR ply or 40 mm thick PUF Panels. And approved by Engineer in Charge.

- **SWITCHES, SOCKETS, WIRES & SWITCHGEAR**

- A. **CONDUITS** -

- All conduits shall be of minimum 20mm P.V.C. rigid type.
    - Conduits shall be confirming to IS: 2509 - 1973 and IS: 3419 - 1989.
    - The conduits shall be placed on the surface of PUF panels. Saddles for clamping conduits shall be of a heavy gauge non metallic type with base.

- B. **BOXES** -

- All boxes shall be of surface mounted type and shall be confirming to IS : 14772 - 2000.
    - Boxes shall be of rigid PVC molding type an all sides except for front side. The minimum thickness of walls shall not be less than 2.0mm and clear depth shall not be less than 60mm.
    - PVC boxes The boxes shall be free from burrs, fins and internal roughness.

- C. **WIRES** -

- All internal wires shall be multi strand copper conductor type..
    - Minimum size of wiring to be followed -
      - Light and 5A socket wiring - 1.5 sq.mm.,
      - Power - 15A socket wiring - 4.0 sq.mm.
      - Circuits with 1000W power - 6.0mm.
    - Copper conductor cable shall be PVC insulated, Fire Retardant, low smoke (FRLS) type confirming to BIS specification.
    - Internal wiring Shall be of Finolex/ Polycab make.

- **SWITCHES AND FACE PLATES** -

- All switches and face plates shall be of modular type,
    - The switches and plates shall be ISI marked.
    - Switches and Switch plates shall be of Anchor/ Crabtree make.

**SWITCH GEAR** - Switch gear shall be of Havell's make

**Note:** Load for Power back up will be minimum 1.5 KVA.

## 12. Design Parameters:

Design Parameters for Structural design:

- (a) **SEISMIC- ZONE - V** as per IS 1893 - 1984
- (b) **SNOW LOAD** - As per IS 875 (PART 4) 1987 with Max. 1M Fresh Snow Standing On Sloping Roof
- (c) **WIND SPEED** - As Per IS-875 PART 3 : 1988) (Class - A and Category- 1) & Topography Factor for slopes greater than 17 degrees.
- (d) **TEMPERATURE** - (-) 45° C TO (+) 20° C.
- (e) **MIN SAFE BEARING CAPACITY OF SOIL AT 0.30M TO 1.00 DEPTH** - 10 T/M2.
- (f) **IMPOSED LOADS** - As per IS 875 (PART 2) 1987 for sloping roof & dormitories
- (g) **DEAD LOADS** - as actual

### C. For BOQ item no. 3

- Supply & Installation of two numbers in each OCR three phase silent DG set of 10 kVA with suitable AMF Panel suitable for 10 kVA DG set (AMF inside the DG set shed) and 2 KW Solar off- Grid on roof top with 6 to 8 hours backup as per specification of MNRE with Lithium Ion Battery Banks.
- Air Cooled Generator Set shall be 10 KVA Single Phase, ( Make - Cummins / Eicher / Kirloskar or equivalent) Electric Start with plate Battery, Fuel Tank-200 Liter. (Min.)
- Acoustic Enclosure shall be as per CPCB Guidelines. The noise level shall be below 75db as per norms prescribed by the Pollution Control Committee.
- The DG Set shall be provided with cold start up arrangement.
- Waste heat from DG Sets to heat up the fresh water.
- Both DG sets of 10 KVA will be joined with a Change over switch (COS).

### D. For BOQ item no. 4

Supply and fixing a Double Glazed Unit (Hardened) Glass in corridor with double door at as per the details given in the plan & drawing.

### E. For BOQ item no. 5

Annul maintenance of all the offices after defect liability period. The payment will be released in four equal installments every three months.

## BOQ Format

### Percentage BoQ

**Tender Inviting Authority: National Highways & Infrastructure Development Corporation Limited**

**Name of Work: Construction and Installation of prefabricated Office cum Residence in the States of Arunachal Pradesh, Sikkim & Uttarakhand in high altitude remote areas.**

**Contract No: NHIDCL/MHA/BIP/Pkg-I/2020-21**

<b>Name of the Bidder/ Bidding Firm / Company :</b>	
-------------------------------------------------------------	--

#### PRICE SCHEDULE

**(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )**

Sl. No.	Item Description	Quantity	Units	Estimated Rate excluding GST in Rs. P	TOTAL AMOUNT excluding GST in Rs. P	TOTAL AMOUNT excluding GST Rs. P	TOTAL AMOUNT excluding GST In Words
1	2	3	4	5	6	7	8
1	Construction and installation of prefabricated office cum residence (OCR) along with store and gen-set area (duly connected with main office) at various locations given in the bid. The work has to be carried out as per approved design, drawing by the engineer, as per contract specifications. The structure shall be designed for +20 to -45 deg C temperature; special grade steel shall be used to withstand extreme temperature difference. Wall cladding shall be of PUF panels made up of 120 mm thick composite PUF sandwich between 0.5 mm PPGI sheets both sides. The panels shall be made of PPGI on both sides with 80/100 mm thick layer of rigid CFC free polyurethane foam of density of 40+2 kg/m <sup>3</sup> as insulation. The wall panels shall have tongue & Groove arrangement and inter cam lock system. PPGI sheet shall have minimum coating of 4-5 –micron epoxy primer and 25 microns polyester top coat on the finish surface and 7-8-micron primer alkyl base on reverse. The Partition wall shall be made with framed structure with suitable insulation and cement boards. All the internal face of wall shall be covered with 12 mm BWR ply. The work also include the foundation, ramp, corridor and other base work. All the electrical wiring shall be multi strand copper wire with						INR

	ISI mark having low smoke & fire-resistant properties. All switches & fittings shall be modular type and all luminous shall be of higher efficiency, Specialized Grade PPR plumbing (as per IS specification) with insulation fixtures, durable accessories and providing & Installation of improved space heating kerosene oil based device (Bukhari) complying with the specifications of DIPAS, DRDO. The work shall be completed in all respect as per the approved design, drawings and specifications.						
2	Providing furniture, kitchen platform, wall cabinet, room heaters, mattress, pillow, etc in each office cum residence as per details given in Section - VI under clause B of brands/make approved by the engineer confirming to specifications of BIS						
3	Supply & Installation of two numbers three phase silent DG set of 10 kVA with suitable AMF Panel suitable for 10 kVA DG set (AMF inside the DG set shed) and 2 KW Solar off-Grid on rooftop with 6 to 8 hours backup as per specifications of MNRE.						
4	Supply and fixing a Double Glazed Unit (Hardened) Glass in corridor with double door at as per the details given in the plan & drawing.						
5	Annul maintenance of all the offices after defect liability period. The payment will be released in four equal installments every three months.						
<b>Total in Figures</b>							
<b>Quoted Rate in Figures</b>			Select		0.00	0.00	INR Zero Only
<b>Quoted Rate in Words</b>		INR Zero Only					