



# NATIONAL AGRI-FOOD BIOTECHNOLOGY INSTITUTE

Knowledge city, Sector 81, MOHALI - 140306

## BID DOCUMENT PRESS TENDER (TWO BID)

Online tenders (in two-bid system) are invited on behalf of Executive Director from reputed Indian/foreign manufacturers or their authorized dealers/agents for the supply of the following items to NABI:

Sno	Tender No	Item Description	Qty	EMD (in Rs.)
1	NABI/1(764)/19-20/N-PUR	WHOLE GENOME RESEQUENCING ON ILLUMINA	5 SAMPLES	62540.00

Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app> & Institute website [www.nabi.res.in](http://www.nabi.res.in). Tender fee in shape of DD/Banker Cheque of Rs 1770/- (Non-refundable) and EMD of Rs.62,540/- should be submitted by DD /Banker Cheque / Bank Guarantee in favour of the “National Agri-Food Biotechnology Institute” payable at Mohali.

The tenderers registered with MSME & NSIC in the above-mentioned Service / Activity are exempted from submission of EMD.

However, scanned copy of the both tender fee/Exemption documents (for MSME & NSIC registered) and EMD/Exemption documents (for MSME & NSIC registered) should be uploaded on the website along with technical bid part. The hard copy of the same in original to be send to the address mentioned below duly superscribing the supply/work name and reference/ tender ID on the envelope and same must reach before opening the bid and if not received within due date the bid will be rejected summarily. Interested parties may also purchase the tender document directly from the office of NABI by paying Rs.1770/- and upload the scanned copy of receipt in the portal.

The original EMD and Tender fee or Exemption Documents (for MSME & NSIC registered vendors) should be send to

Stores and Purchase Officer  
National Agri-Food Biotechnology Institute  
Knowledge City, Sector 81, Mohali – 140306  
Punjab, India

Contact No: 0172-522109/300; Email id: [purchase@nabi.res.in](mailto:purchase@nabi.res.in)

Non-receipt of the above will lead to rejection of tender.

### CRITICAL DATE SECTIONS

Sr.	Description	Date	Time
1	Tender Publishing Date and time	10 <sup>th</sup> Feb' 2020	09:00 AM
2	Tender Document download start Date & Time	10 <sup>th</sup> Feb' 2020	09:00 AM
3	Bid Submission start Date & Time	10 <sup>th</sup> Feb' 2020	09:00 AM
5	Bid Submission End date and Time	25 <sup>th</sup> Feb' 2020	03:00 PM
6	Tender opening Date and Time	26 <sup>th</sup> Feb' 2020	04:00 PM

NABI reserves the right to accept/reject any offer in part or full without assigning any reason.

STORES AND PURCHASE OFFICER

### **Instructions for Online Bid Submission**

- 1) The tender documents are available on our website [www.nabi.res.in](http://www.nabi.res.in) & [www.eprocure.gov.in](http://www.eprocure.gov.in) and same can be downloaded as per the schedule as given in the tender document.
- 2) Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>. Tenderers/Contractors are advised to follow the instructions provided in the 'Instructions to the Contractors/Tenderer for the e-submission of the bids online through the Central Public Procurement Portal for eProcurement at <https://eprocure.gov.in/eprocure/app>'. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 3) **Not more than one tender shall be submitted by one contractor or contractors having business relationship. Under no circumstance will father and his son(s) or other close relations who have business relationship with one another (i.e when one or more partner(s)/director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.**
- 4) The bidders are advised to visit CPPP website <https://eprocure.gov.in/eprocure/app> at least 3 days prior to closing date of submission of tender for any corrigendum / addendum/ amendment.
- 5) Bids will be opened as per date/time as mentioned in the **Tender Document**. If the tender opening date happens to be on a holiday or non-working day due to any other valid reason, the tender opening process will be attended on the next working day at same time and place. NABI, Mohali will not be responsible for any error like missing of schedule data while downloading by the Bidder. After online opening and evaluation of technical bids, the results of their qualification as well Price-Bid opening will be intimated later.

### **Submission of Tender**

- 1) The bids shall be submitted online in two bids (Technical bid and Financial bid) or Single bid as specifically specified in the invitation for
- 2) All the pages of bid being submitted must be sequentially numbered by the bidder irrespective of nature of content of the documents before uploading in the portal.
- 3) The offers submitted by Post/Fax/email shall not be considered. No correspondence will be entertained in this matter.
- 4) The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.
- 5) More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

## **REGISTRATION**

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “**Online Bidder Enrolment**” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra/ Nic etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others, which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

## **SEARCHING FOR TENDER DOCUMENTS**

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

## **PREPARATION OF BIDS**

Bidder should take into account any corrigendum published on the tender document before submitting their bids.

- 1) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 2) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 3) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, GST Certificate etc.) has been provided to the bidders. Bidders can use “My Space” or “Other Important Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded repeatedly. This will lead to a reduction in the time required for bid submission process.

## **SUBMISSION OF BIDS**

- 1) The bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) The bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official before bid opening date/time as mentioned in critical date sheet or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise, the uploaded bid will be rejected.
- 5) The bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- 6) The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. Unauthorized persons cannot view the data entered until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is upload in the server is subject to symmetric encryption using a system generated symmetric key. Further, this key is subject to asymmetric encryption using buyers/bid opener’s public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 9) Upon the successful and timely submission of bids (i.e after Clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

## **ASSISTANCE TO BIDDERS**

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 1800 3070 2232, 91-7878007972 and 91-7878007973



# NATIONAL AGRI-FOOD BIOTECHNOLOGY INSTITUTE

Knowledge City, Sector 81, MOHALI - 140306

Open Tender Notice No: NABI/1(074)/19-20/N-PUR

## CONTENTS

CHAPTER	Description	Page
1)	Instructions	06
2)	Scope of Work/Technical Specifications (Annexure A)	09
3)	Schedule of Rates/Offer of the Bidder	11
4)	Bid Evaluation Criteria	12
5)	General Conditions of Contract	14
6)	Bid Form	20
7)	Bid Security Form	21
8)	Bidder's Performance Statement form	22
9)	Deviation Statement Form	23
10)	Performance Security Form	24

# **INSTRUCTION TO BIDDERS**

## **A. INTRODUCTION**

### **1 GENERAL**

- 1.1 National Agri-Food Biotechnology Institute (NABI) is an autonomous body under Department of Biotechnology, Government of India proposes to obtain sequencing services of reputed sequencing service providers for **“WHOLE GENOME RESEQUENCING OF NABI SAMPLES IN ILLUMINA PLATFORM”**
- 1.2 NABI now invites bids under Two Bid System (Part I – Technical Bid and Part II – BoQ/Price Bid) from reputed and experienced firms for carrying out Genome Sequencing as per enclosed specifications.
- 1.3 The bidder shall comply with the instructions contained in this Bid document. The bidder is expected to examine all instructions, sections, terms and conditions, specifications etc. in the bid documents. Failure to furnish all information, data as required by the bid documents or submission of a bid not substantially responsive to the bid documents in every respect will be at bidder's risk and may result in the rejection of their bid.
- 1.4 Bidders shall bear all costs associated with the preparation and submission of bid etc. NABI, Mohali will in no case be responsible or liable for those cost, regardless of the conduct or outcome of the bidding process.
- 1.5 Offers to be submitted in two bid system as per tender terms
- 1.6 Bidders desiring to deliver the bid in person may drop the same in TENDER BOX in reception at NABI, Mohali. Bidders may also submit their offers by registered post/speed post/courier so as to reach NABI, Mohali at prescribed address positively on or before the due date and time.

### **2 ELIGIBILITY CRITERIA**

- 2.1 The bidder as a company (or) registered partnership (or) proprietary concern should have
  - a) The bidder who has In-house/collaborative sequencing platforms in India for Biotechnology, Government of India proposes to obtain sequencing services of reputed sequencing service providers for **“WHOLE GENOME RESEQUENCING OF NABI SAMPLES IN ILLUMINA PLATFORM”**
  - b) The bidder should have qualified and trained manpower for providing services mentioned in the scope of work.
  - c) The bids will be accepted in respect of those companies having successfully completed sequencing works (cumulative) of at least 31 lakhs each in the last three financial years (2018-19/2017-18/2016-17). Similar works means work related to Whole Genome Sequencing/Transcriptome Sequencing/Genome Sequencing/RNA Sequencing/Small RNA Sequencing of samples in Central /State Govt National Laboratories/PSUs/Central/State Government Autonomous bodies. The copies of the Purchase Orders should be provided along with the quotation.

Documentary evidence in support of each of above mentioned points must be accompanied with Technical Bid for further evaluation.

- 2.2 The following documents must be enclosed along with the **TECHNICAL BID**

- a) The original copy of Bid document duly signed on each page as token of having accepted the terms and conditions of the Bid Documents
- b) Proof of experience and EMD should be submitted along with PART-I TECHNICAL (Un-priced) bid.
- c) Descriptive literature of the Bidder's constitution, experience and past performance on similar jobs and capabilities of the personnel
- d) Technical and other details except price as per Bid Document duly filled in and signed.
- e) Bidder's exception, if any, to NABI-Mohali terms and conditions of the contract.
- f) Income-Tax Certificate for the last three financial years
- g) Bidders are required to submit all necessary documents in support of the clause 2 and as well as documents required for the technical specifications/scope of work .
- h) Any other information/details as required as per Bid Document.
- i) Bids received without signature, EMD and non-submission of the required documents will be summarily rejected at preliminary examination stage itself.
- j) The firm should provide the compliance for all the technical specifications and eligibility criteria (As per Clause II, Chapter I) as per the Compliance Statement form (As per Chapter VIII).
- k) **Bids without prescribed documents and did not meet the technical specifications and eligibility criteria will be treated as non-responsive and will be rejected.**

- 2.3 The bidder should complete the project within 90 days after the handing over of samples. In case of any extension in the project, the decision of the competent authority of NABI is final and binding.
- 2.4 Telex/Telegraphic/FAX/Photocopy/e-mail offer is not acceptable.
- 2.5 **The Bidder shall sign the proposal with the exact name of the firm to whom the contract is to be awarded. Executive of the bidders organization stating his rank/designation, enclosing a copy of his Power of Attorney to sign the Bid, shall duly sign the bid.**
- 2.6 **Bidders shall clearly indicate their legal constitution and person signing the Bid shall state his capacity as also the source of this authority to bind the bidder. The power of Attorney or Authorization or any other document constituting adequate proof of the powers of the signatory to bind the bidder shall be annexed to the bid. NABI will reject outright any Bid unsupported by adequate proof of the signatory's authority.**
- 2.7 Canvassing in any connection with the bid is strictly prohibited and the bid submitted by the bidder who resorts to canvassing will be liable for rejection.

### **3 INSTRUCTIONS FOR FILLING BIDS:**

- 3.1 Bid document shall be filled complete in all respects and shall be submitted together with requisite information. It shall be complete and free from any ambiguity, changes or interlineations.
- 3.2 The Bidders' Bid and any annotation or accompanying documentation shall be in English language.
- 3.3 Bidders' shall given their prices/rate in figures as per the BoQ format. Bids containing qualifying expressions subject to minimum acceptance etc. will be disqualified.
- 3.4 The bidder as a company (or) registered partnership firm (or) proprietary concern should have experience of at least last three years and to be supported with documentary evidence towards the same.
- 3.5 Bidder has to arrange collection and delivery of samples from user Scientist at NABI, Mohali as per time and date indicated by him.
- 3.6 The bidder has to complete the project as mentioned in the Scope of work.
- 3.7 No clarifications shall be sought after opening of TECHNICAL BID. Conditional bids indicating exceptions/deviations to bid conditions will be summarily rejected.
- 3.8 The bidders who are capable to take up the subject work shall submit the bids. But the prices should be quoted item wise as suggested in NIT & BoQ. Bidders should quote a FIRM PRICE and they shall be bound to keep this price firm and without any escalation for any reason whatsoever, until the completion of the contract period.
- 3.9 The price quoted should be as per the BoQ and quote only in Indian currency.
- 3.10 No correspondence after opening of Bid will be entertained from the bidder. However, if NABI-Mohali sends any communication with respect to the bid the same is to be compiled with.
- 3.11 Bid from Bidders not complying with the above instructions can be summarily rejected.

### **4 INSTRUCTIONS FOR FILLING BIDS:**

Please refer the critical dates for the last date of submission of bids and closing of bids. eBids received after due date and time will be summarily rejected.

- 4.1 NABI shall not be responsible for any cost or expense incurred by any bidder in connection with his bidding against this bid and loss of bids in post/courier, regardless of the conduct or outcome of the bidding process.

### **5 Validity of BID:**

The bid must be kept valid for acceptance for 90 days from the date of closure of bid.

### **6 Scope of Work:**

The detailed scope of work is given separately at **Annexure "A"**.

### **7 Earnest Money:**

- 7.1 Bidders are required to submit Earnest Money Deposit (EMD) valid for 90 days from the date of opening of Part I of technical bid for an amount of Rs. 62,540/- (sixty two thousand five hundred and forty only)
- 7.2 EMD can be in the form of a DD drawn in favour of "**National Agri-Food Biotechnology Institute**" payable at Mohali or in the form of Bank Guarantee as per preforma attached from a Nationalized/Scheduled Bank in India.
- 7.3 The successful bidder is required to extend the valid of the Bid Bond for a further period till the formal contract is signed and security deposit/Performance Bank Guarantee (PBG) submitted.
- 7.4 **eBids not accompanied by Earnest Money Deposit (EMD) as mentioned above will be summarily rejected.**
- 7.5 The EMD of the unsuccessful Bidders will be returned once the successful bidder furnishes the Performance Bank Guarantee or in the case the bid is cancelled.
- 7.6 The EMD shall be forfeited in the following events:
  - a) If the bid is withdrawn or modified or varied in a manner not acceptable to NABI during the bid validity period or any extension thereof
  - b) If a successful bidder fails to sign/fails to execute the contract.

### **8 Right to Reject:**

NABI reserves the right to reject any or all quotations without assigning any reason whatsoever. NABI also reserves the right to cancel this bid at any stage without assigning any reason whatsoever.

### **9 Authorization:**

Bidders are at liberty to be present or to authorize their representative at the time of opening of Bid on the date specified. A letter of authorization must be forwarded to Executive Director, NABI along with the bid document and a copy of this letter must be produced in the office by the person attending the opening of Bid. Unless this letter is presented by him, he may not be allowed to attend the opening of Bid.

### **10 Performance Bank Guarantee (PBG):**

10.1 The successful bidder will have to furnish the Performance Bank Guarantee (PBG) for a sum equivalent of 10% of contract value from a Nationalized/Scheduled Bank in India. This Bank Guarantee shall be valid for a period of 6 months from the date of completion of the contract/job and shall be sent to Executive Director, NABI directed by the issuing Bank as per the format to be provided by this office within a period of 21 days from the date of signing of the contract/award of Purchase Order.

10.2 Penalty: If the successful bidder/contractor fails to carry out the service as per the scope of work, PBG will be invoked.

**11. General conditions:**

- 11.1 In case of an unscheduled holiday on the prescribed closing/opening day of the bid, the next working day will be treated as schedule prescribed day of closing/opening of the bid.
- 11.2 This bid being under **TWO BID system**, only Part-I Technical bids will be opened on the opening date indicated. Price bids of the short listed bidders will be opened later on under intimation to the Bidders.
- 11.3 The service provider shall conform to all laws including labour laws of the State/Central Government. The service provider shall indemnify NABI for any breach of laws committed by him. The service provider shall take adequate measures to ensure continuous and unhindered output of work.
- 11.4 Any expenditure incurred by NABI on behalf of the service provider who is under an obligation to bear the expenditure as per the relevant law shall be recovered by NABI from the service provider either by deduction from an amount payable to the service provider under the contract or as a debt payable to the service provider.
- 11.5 The service provider should be adequately equipped with regard to service requirement.

**12. Purchaser's Right to vary quantities at Time of Award:**

The Purchaser reserves the right at the time of Contract award to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price and other terms and conditions.

**13. Purchaser's Right to Accept any bid and to Reject any or all bids:**

The Purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or bidder or any obligation to inform the affected Bidder or bidders of the grounds for the Purchaser's action.

**14. Notification of Award:**

Prior to the expiration of the period of bid validity, the purchaser will notify the successful bidder in writing by registered letter or by cable or telex or fax or e-mail that the bid has been accepted by way of a Purchase Order/letter of intent.

**15. Order Acceptance:**

The successful bidder should submit acceptance of the Purchase order immediately but not later than 21 days in any case from the date of issue of the Purchase Order failing which it shall be presumed that the vendor is not interested and his bid security is liable to be forfeited.

**16. Your firm should enclose the certificate regarding the non-blacklisting, acceptance of terms and conditions etc along with the Technical Bid as per the Annexure "B".**

**STORES AND PURCHASE OFFICER**



## SCOPE OF WORK/TECHNICAL SPECIFICATIONS

Number of samples: Five different genomic DNA samples

2. Genome size: Approx. 16 Gb
3. Proposed Sequencing Platform: Illumina
4. Sequencing length: Pair-end-2x150 bp (library insert size: 350-500bp)
5. Data output: Approximately 350 Gb/Sample
6. Samples to be supplied by NABI: Leaves or Genomic DNA
7. Genome coverage: >20X.
8. Quality of sequences: 75% of the bases above Q30.
8. Reads to be assembled by an assembler.
9. Gaps in the contigs should be carefully checked.
10. Reference Genome info: Link to the reference genome along with accession number will be provided by NABI
11. 90% of total budget will be paid after receiving raw sequence data and the remaining 10% after receiving the bioinformatics analysed data.
12. The resequencing has to be completed by March 15<sup>th</sup>, 2020.
13. Bioinformatics Analysis:

**A. Sequencing quality testing:** Base quality score distribution, Sequence quality score distribution, Average base content per read, GC distribution in the reads, Read-length distribution based on quality report of fastq files

**B. Sequence assembly and annotation:**

- i) QC & Filter: The fastq read quality will be provided to NABI.
- ii) The paired-end reads should be used to assemble the required genome using available assembly tools. The best assembled genome and all necessary stats will be provided to NABI.
- iii) Gene prediction: Gene prediction on the assembled genome should be performed using tools such as Glimmer-MG, GLEAN or others. List of identified gene coordinate will be provided to NABI.
- iv) Gene annotation: Gene annotation should be performed using BLASTX program or other suitable program. Predicted genes will also be annotated against UniProt databases. A taxonomy report based on genes found in the sample will also be provided to NABI. Function annotation and pathway information will also be provided to NABI.
- v) Identification of biosynthetic gene clusters
- vi) Specific pathways or specific clusters should be mentioned.
- vii) Alignment report summarizing mapping results
- viii) Build consensus sequence, annotation, Percentage of genome coverage G Generation of assembly in fasta and Genbank format.

**C. SNP identification among 5 NABI supplied genomic DNA samples:**

SNP calls at RD of 20; SNP calls among 5 genomic DNA samples supplied by NABI; Other SNP parameters to be provided

**14. Data deliverables before 15<sup>th</sup> March 2020**

- i) Raw sequence data generated from the run
- ii) Sequence nucleotide quality scores.
- iii) Alignment of the sequences to the reference and parental sequences will be done using BWA algorithm and variant calling using GATK software, FastQ sequence and output from HiSeq containing quality and coverage info as well as variant calling will be provided.
- iv) SNP and indel identification will be done in all the samples.

**SCHEDULE OF RATES – OFFER BY BIDDER**  
 (to be enclosed along with the Technical bid without mentioning rates)

Sr. No	Item Description	Qty	Rate (in ₹)	Value (in ₹)
1)	Whole genome Resequencing on illumina 2 x150 bp; 1.7 Tb data/sample (as per scope of work mentioned in the Annexure “A”)	5 samples	Please quote your rates in BoQ	Please quote your rates in BoQ
		GST @_____ ==>>		Please quote the GST % in BoQ
		Total Value (in Rupees) ==>>		

**SEAL AND SIGNATURE OF THE BIDDER**

**BID EVALUATION CRITERIA**

Sr. No	Particulars	Complied and Accepted/Not Accepted/Not applicable
1)	<p><b>A. TECHNICAL:</b> <u>The bidder as a company (or) registered partnership (or) proprietary concern should have</u></p> <ul style="list-style-type: none"><li>i) <u>The bidder who has In-house/collaborative sequencing platforms in India for “Transcriptome Sequencing on Illumina Platform”</u></li><li>ii) <u>The bidder should have qualified and trained manpower for providing services mentioned in the scope of work.</u></li><li>iii) <u>The bids will be accepted in respect of those companies having successfully completed sequencing works (cumulative) of at least 31 lakhs each in the last three financial years (2018-19/2017-18/2016-17). Similar works means work related to Whole Genome Sequencing/Transcriptome Sequencing/Genome Sequencing/RNA Sequencing/Small RNA Sequencing of samples in Central /State Govt National Laboratories/PSUs/Central/State Government Autonomous bodies. The copies of the Purchase Orders should be provided along with the quotation.</u></li></ul> <p><u>The quoting firm should provide the compliance statement for each point of the scope of work mentioned in the Annexure “A”</u></p> <p><u>Whether your firm had filled the certificate as per the Annexure B</u></p>	

Seal and the Signature of the Bidder

**Ref No: NABI/1(764)/19-20/N-PUR**

**CERTIFICATE**

- i) That I/ we have gone through and understood the requirements given in the NABI -Tender Notice no. NABI/1(764)/19-20/N-PUR and rates have been quoted accordingly.
- ii) That the terms and conditions given in the tender notice are acceptable to to me/us.
- iii) That the information furnished by me /us is true and correct.
- iv) That our firm/company has not been blacklisted by any Government organization/department/Central Government/State Government funded autonomous bodies/Universities etc.
- v) In case of the information/supporting documents provided by our organization in the tender is false in any time of the tender process or after the finalization of the tender, the decision taken by NABI is final and binding to us.

**Seal and the Authorized Signature of the tenderer**

**Note: The quoting firm should provide the above certificate by an affidavit on Non-Judicial Stamp paper has to be submitted by the bidder to this effect.**

## **GENERAL CONDITIONS OF CONTRACT (GCC)**

### **1 Definitions:**

1.1 In this Contract, the following terms shall be interpreted as indicated:

- (i) "The Order" means the Purchase Order placed by the Purchaser including all the attachments and appendices thereto and all documents incorporated by reference therein;
- (ii) "The Contract Price" means the price payable to the Supplier under the Order for the full and proper performance of its contractual obligations;
- (iii) "The Goods" means all the equipment, machinery, and/or other materials, which the Supplier is required to supply to the Purchaser under the Contract;
- (iv) "Services" means services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the Supplier covered under the Contract;
- (v) "GCC" mean the General Conditions of Contract contained in this section.
- (vi) "The Purchaser's country is "India".
- (vii) "The Supplier" means the individual or firm supplying the Goods and Services under this Contract.
- (viii) "Day" means calendar day.

### **2 Application:**

1.1 These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

### **3 Standards:**

3.1 The Goods/ service supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods' country of origin and such standards shall be the latest issued by the concerned institution.

### **4 Use of Contract/order Documents and Information:**

4.1 The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract/order, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in performance of the Contract/order. Disclosure to any such employed person shall be made in confidence and shall extend only so far, as may be necessary for purposes of such performance. The Supplier shall not, without the Purchaser's prior written consent, make use of any document or information enumerated in GCC Clause 4.1 except for purposes of performing the Contract.

4.2 Any document, other than the Contract/order itself, enumerated in GCC Clause 4.1 shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

4.3 The purchaser may be under obligation to make any document / information submitted by the bidder in response to this bid public if required under the provision of Indian Right to Information Act 2005. Therefore, bidder may explicitly indicate if any document / information in his tender include information of commercial confidence, trade secrets or intellectual property, the disclosure of which would jeopardize the competitive position of the bidder

## **5 Patent Rights:**

- 5.1 The Supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods/ service or any part thereof in India.

## **6 Submission of E-bids**

- 6.1 The details of submission of E-bids shall mentioned in the instructions to online bidders.

## **7 Performance Security:**

- 7.1 Within 21 days of receipt of the notification of contract award/purchase order, the Supplier shall furnish performance security for the 10% of the total value of the Purchase Order.
- 7.2 The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 7.3 In the event of any contract amendment, the supplier shall, within 21 days of receipt of such amendment, furnish the amendment to the performance security/SLC, rendering the same valid for the duration of the contract, as amended for further period of 60 days thereafter.

## **8 Inspections and Tests**

- 8.1 The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Purchaser. Technical Specifications shall specify what inspections and tests the Purchaser requires and where they are to be conducted. The Purchaser shall notify the Supplier in writing in a timely manner of the identity of any representatives retained for these purposes.
- 8.2 The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at the point of delivery and/or at the Goods final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data - shall be furnished to the inspectors at no charge to the Purchaser.
- 8.3 Should any inspected or tested Goods fail to conform to the specifications, the Purchaser may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Purchaser.
- 8.4 The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at Purchaser's Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods shipment.
- 8.5 Nothing in GCC Clause 8 shall in any way release the Supplier from any warranty or other obligations under this Contract.

## **9 Packing:**

- 9.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of specialized handling facilities at all points in transit.
- 9.2 The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements, if any, specified in Specifications and in any subsequent instructions ordered by the Purchaser.
- 9.3 The purchaser reserves the rights to arrange to carry out packing and value inspections through their freight forwarding agents particularly in case of high value and sensitive items.

## **10 Delivery and Documents**

10.1 Delivery of the Goods shall be made by the Supplier in accordance with the terms specified by the Purchaser in the order within the period as indicated in the tender. The details of shipping and/or other documents to be furnished by the supplier are specified in tender.

**11 Insurance:**

11.1 Wherever required, the Goods supplied under the Contract shall be fully insured in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified.

**12 Transportation:**

Where the Supplier is required under the Contract to transport the Goods to a specified place of destination within India, transport to such place of destination in India including insurance, as shall be specified in the Contract, shall be arranged by the Supplier, and the related cost shall be included in the Contract Price.

**13 Address:**

13.1 For the purpose of this Contract/ Purchase Order, the addresses of the contracting parties will be as follows and all correspondences and notices in relation to the present contract sent to the parties to the addresses mentioned below shall be deemed to be sufficient for serving of Notices on the parties concerned.

**Stores & Purchase Officer  
National Agri-Food Biotechnology Institute  
Knowledge City, Sector 81, Mohali – 140306  
Phone: 91-172-5221109 / 5221120; Fax: 91-172-5221100  
E-mail: purchase@nabi.res.in**

13.2 NABI reserves the right to change the period, to instruct the service provider in respect of collection and delivery of samples. NABI will not be responsible for any compensation whatsoever on this account.

13.3 Contract Execution period: Sequencing work as per the scope of work mentioned in the Annexure A should be completed within a total period of 90 days from the date of award of contract / Purchase Order / handing over of sample to the successful bidder

**14. RATES, TERMS AND MODE OF PAYMENT:**

**14.1 RATES:**

NABI will pay to the service provider on sample basis subject to satisfactory service report, as certified by NABI's user Scientist. No charges will be payable separately by NABI. Unreasonable quote will not be entertained.

**14.2 Mode of Payment:**

- (i) The payment will be made to the successful bidder as per the terms mentioned in the scope of work. No payment would be made, if it was found unsatisfactory by NABI's user scientist.
- (ii) Such payments to be made within 15 days from the date of receipt of Invoice at NABI, Mohali, subject to certification of satisfactory service and acceptance by NABI's user Scientists. Payment for accepted records and undisputed bills will be made by E Director, NABI, Mohali in the form of Account Payee cheque drawn on SBI, Mohali Branch/ or will be directly transferred to his account electronically through e-payment mode. Any delay in payment on any account will not make NABI liable to pay interest, under any circumstances. Disputed bills will be returned to the successful bidder.
- (iii) NABI user Scientist will certify the accepted samples and accepted amount payable on each invoice.
- (iv) Service Provider will raise the bills in the name of Executive Director, NABI, Mohali.



### **14.3 Firm rates & currency of payment**

- (i) The rates payable under this contract herein above shall be firm throughout the period of the contract and no escalation shall be allowed under any circumstances.
- (ii) All payments to the contractor under this contract shall be made only in Indian Rupees.

### **15 Taxes:**

The Service Provider shall be responsible to pay all taxes and duties such as corporate tax, service tax, income tax, turnover tax, GST etc., leviable on them. TDS will be deducted by NABI as per Clause No. 194(J) of TDS Rules.

### **16 Liquidated damages for delay on part of Service Provider in progress of Sequencing work.**

- 16.1 Liquidated damages are applied in similar way for insufficient progress of work and also non completion of work within 90 days from the date of receipt of samples after award of contract/ Purchase Order.
- 16.2 The parties agree that LD is a genuine pre estimate of loss/damage which is suffered on account of delay/breach on the part of Service Provider the and the said amount is payable by the Service Provider without any demur.
- 16.3 Any decision of Executive Director, NABI on Liquidated Damages shall be final and binding on the bidder.

### **17 Force Majeure**

Neither party shall be held responsible for non-fulfillment of their respective obligations under this agreement due to the exigency of one or more of the force majeure events such as but not limited to Acts of God, war, flood, earthquakes, strike, lockouts, epidemics, riots, civil commotion etc. provided on the occurrence and cessation of any such events, the party affected thereby shall give a notice in writing to the other party within one week of such occurrence or cessation. If the force-majeure conditions continue beyond two weeks, the parties shall then mutually decide about the future course of action. In the event of either party being rendered unable by Force Majeure to perform any obligation required to be performed by them under the contract, the relative obligation of the party affected by such Force Majeure shall upon notification to the other party be suspended for the period during which such cause lasts. Unrest / strike/ resignation by personnel of Service Provider shall not be construed as force majeure.

### **18 Other Conditions:**

- 18.1 The Service Provider shall not transfer/assign/sublet sequencing work or any part thereof in any manner without the prior written consent of the NABI and no such transfer/assignment as and when accepted shall relieve the of his Service Provider/ contractor responsibility under the contract.
- 18.2 Service Provider /Contractor shall indemnify NABI from any claim in future in terms of Public liability claim.
- 18.3 The Service Provider shall conform to all laws including labour laws of the State/Central Government. The Service Provider shall indemnify NABI for any breach of laws committed by him. The Service Provider shall take adequate measures to ensure continuous and unhindered output of work.

### **19 Termination:**

- 19.1 In the event of the Service Provider at any time during the term of this contract becomes Insolvent or makes a voluntary assignment of its assets for the benefit of creditors or is adjudged bankrupt, then, NABI shall by a notice in writing have the right to forthwith terminate this contract.

- 19.2 Notwithstanding the termination of this contract the parties shall continue to be bound by the provisions of this contract that reasonably requires some action or forbearance after such termination.
- 19.3 If NABI considers that the performance of the Service Provider is unsatisfactory or not up to the expected standard, NABI shall notify the Service Provider in writing and specify in detail the causes of dissatisfaction. NABI shall have the option to forthwith terminate the contract, if Service Provider fails to comply with the requisitions contained in the said written notice issued by NABI within ten days of the receipt thereof.
- 19.4 In case the Service Provider's right and/or obligations under this contract are transferred or assigned without prior written consent of NABI. NABI may at its absolute discretion terminate this contract, without prejudice to the other rights it has under the contract.

## **20 Liability and Indemnity:**

- 20.1 The Service Provider/ contractor agrees to indemnify, defend and hold NABI harmless from and against any and all claims, suits or causes of action for injury to or worth of Service Provider's personnel and for loss or damage to property of Service Provider or his personnel arising from or related to performance of this contract, and without regard to the negligence or fault of any party.

## **21. Consequential Damages:**

- 21.1 Neither NABI nor the Service Provider/ contractor shall have any claim against the other for any consequential damages.

## **22. Jurisdiction and Applicable Law**

This contract shall be governed by the laws of India and shall be subjected to the jurisdiction of courts in High Court of Punjab and Haryana.

## **23. Severability:**

Should any provision of this contract be found to be invalid, illegal or otherwise not enforceable by any court of law, such finding shall not affect the remaining provision and they shall remain binding on parties hereto.

## **24. Fairness and Good Faith:**

The Parties undertake to act in good faith in respect to each other's rights under this Contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract as specified in the scope of work

## **25. Arbitration:**

In case of Dispute or difference arising between the Purchaser and a supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Executive Director, National Agri-Food Biotechnology Institute (NABI) Mohali and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.

## **26 ASSIGNMENT:**

The rights and obligations of the Service Provider/ contractor shall not be assigned without the prior written consent of NABI.

## **27 INTERPRETATION**

The titles and headings given in this Contract are inserted for convenient reference only and shall not be construed as limiting or extending the meaning of any provisions of this contract.

**28 Penalty:**

If the successful bidder / contractor fails to attain the desired depth, as per scope of work, Performance Security will be invoked.

**Stores and Purchase Officer**

**BID FORM**

**To**  
**Executive Director**  
**National Agri-Food Biotechnology Institute**  
Knowledge City, Sector 81, Mohali - 140306

Sir,  
Having examined the bidding document, we the undersigned offer to deliver the services \_\_\_\_\_  
(Description of Services) in conformity with the said bidding documents for a sum or such other sums as may be ascertained from the bid.

We undertake that if our bid is accepted to deliver the goods in accordance with the delivery schedule specified and submit the performance security as specified in GCC for the due performance of the contract.

We agree to abide by this bid for requisite period of time after the date fixed for bid opening as per the instructions to the bidders and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding contract between us.

We have quoted our bid prices taking into account your instructions regarding shipment and payment terms and also attached the duly filled 'BRIEF SUMMARY OF QUOTATION & CHECKLIST' as per your instructions.

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_

Signature \_\_\_\_\_

In the capacity of \_\_\_\_\_

Duly authorized to sign the bid for and on behalf of \_\_\_\_\_

**BID SECURITY FORM**

Whereas .....<sup>1</sup> (*hereinafter called the "tenderer"*) has submitted their offer dated ..... (*Date of submission of bid*) for the supply of ..... (*Name and/or description of the goods*) (Hereinafter called the "tender").

KNOW ALL PEOPLE by these presents that WE ..... (*Name of bank*) of ..... (*Name of country*), having our registered office at ..... (*Address of bank*) (Hereinafter called "the Bank"), are bound unto, **National Agri-Food Biotechnology Institute** (Hereinafter called "the Purchaser") in the sum of \_\_\_\_\_ for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this \_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_.

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity:
  - (a) Fails or refuses to execute the Contract Form if required; or
  - (b) Fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including forty-five (45) days after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

(Signature with Seal of the Bank)  
(Complete Contact Details with Tel./Fax/email etc)

<sup>1</sup> \_\_\_\_\_  
*Name of Bidder*

**BIDDER'S PERFORMANCE STATEMENT FORM**  
 (For A Period of Last 5 Years)

Name of the Firm.....

Order placed by (full address of purchaser)	Order No. and date	Description and quantity of ordered Services	Price	Date of completion of delivery as per Contract/Actual	Remarks indicating reasons for late delivery, if any	Has the services provided satisfactory?	Contact Person alongwith Tel. NO., Fax No. & e-mail address

Place :  
Date :

Signature  
Rubber stamp

**DEVIATION STATEMENT FORM (ITB/GCC)**

The following are the particulars of deviations (ITB, GCC Clauses) from the requirements of the tender document and specifications:

<b>CLAUSE</b>	<b>DEVIATION</b>	<b>REMARKS (INCLUDING JUSTIFICATION)</b>

Place:

Date:

Signature and seal of the  
Manufacturer/Bidder

**NOTE:**

Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "No Deviations".

**PERFORMANCE SECURITY FORM**

**The Executive Director,  
National Agri-Food Biotechnology Institute  
Knowledge City, Sector 81, Mohali - 140306**

**WHEREAS** ..... (Name of Supplier)  
Hereinafter called "the Supplier" has undertaken, in pursuance of Contract no..... dated,..... 20... to supply.....  
.....(Description of Goods and Services) hereinafter called "the Contract".

**AND WHEREAS** it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

**AND WHEREAS** we have agreed to give the Supplier a Guarantee:  
**THEREFORE WE** hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of ..... (Amount of the Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limit of ..... (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the .....day of.....20.....

Signature and Seal of Guarantors

(Complete Address/Contact Details with Tel./Fax/email etc)

Date