



ज्वार अनुसंधान निदेशालय
DIRECTORATE OF SORGHUM RESEARCH
(भारतीय कृषि अनुसंधान परिषद/Indian Council of Agricultural Research)
राजेन्द्रनगर, हैदराबाद/Rajendranagar, Hyderabad-500030
Phone: 24015349, 24018651, Fax no.24016378



F.No.NAIP/62/2013-14/ST

Date:02.12.2013

To

Dear Sirs,

Sub: INVITATION FOR QUOTATIONS FOR SUPPLY OF 'Development and Analysis of 1536 plex Golden Gate SNP Chip in 288 samples ' SERVICES AS DESCRIBED

1. You are invited to submit your most competitive quotation for the following goods:-

Brief Description of the Goods	Specifications*	Quantity	Delivery Period	Place of Delivery	Installation Requirement if any
Development and Analysis of 1536 plex Golden Gate SNP Chip in 288 samples	Given below	288 genotypes	30 days	Stores Officer, DSR, Rajendranagar, Hyderabad 500 030	Nil

* Where ISI certification marked goods are available in market, procurement should generally be limited to goods with those or equivalent marking only.

Detailed description

Development and Analysis of 1536 plex Golden Gate SNP Chip in 288 samples

1. Crop: Sorghum
2. DNA sample will be provided
3. Total number of samples: 288
4. Total Markers to be analyzed: 1536
5. SNP chip needs to be fabricated with custom Markers for analyzing provided DNA samples using 1536 markers using golden gate SNP genotyping technology
6. Genotyping information of 288 samples be provided as per SNP calls at 1536 loci

7. End-to-end comprehensive Bioinformatic data analysis should be provided
2. Government of India has received a credit from the International Development Association (IDA) in various currencies equivalent to US\$ 14 crores towards the cost of the NAIP Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
3. **Bid Price**
 - a. The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
 - b. All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.
 - c. Sales tax in connection with the sale shall be shown separately.
 - d. The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - e. The Prices shall be quoted in Indian Rupees only.
4. Each bidder shall submit only one quotation.
5. **Validity of Quotation**

Quotation shall remain valid for a period not less than 15 days after the deadline date specified for submission.
6. **Evaluation of Quotations**

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

 - a. are properly signed ; and
 - b. conform to the terms and conditions, and specifications.

The Quotations would be evaluated separately for each item.
Sales tax in connection with sale of goods shall not be taken into account in evaluation.
7. **Award of contract**

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

 - 7.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
 - 7.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
8. Payment shall be made immediately after delivery of the goods.
9. Normal commercial warranty/ guarantee shall be applicable to the supplied goods.
10. You are requested to provide your offer latest by **11.00.hours** on **10th DECEMBER 2013**
11. We look forward to receiving your quotations and thank you for your interest in this project.

Administrative Officer
DSR, Rajendranagar
Hyderabad



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F.No.NAIP/61/2013-14/ST

Date:02.12.2013

To

Dear Sirs,

Sub: INVITATION FOR QUOTATIONS FOR SUPPLY OF **‘Whole Genome Shotgun Sequencing and structural genomic variation analysis in Sorghum’** SERVICES AS DESCRIBED

You are invited to submit your most competitive quotation for the following goods:-

Brief Description of the Goods	Specifications*	Quantity	Delivery Period	Place of Delivery	Installation Requirement if any
Whole Genome Shotgun Sequencing and structural genomic variation analysis in Sorghum	Given below	6 genotypes	30 days	Stores Officer, DSR, Rajendranagar, Hyderabad 500 030	Nil

* Where ISI certification marked goods are available in market, procurement should generally be limited to goods with those or equivalent marking only.

Detailed description

Whole Genome Shotgun Sequencing and structural genomic variation analysis in Sorghum (Reference genome-based)

1. Whole genome sequencing by using Illumina platform to study structural genomic variation (SNPs/In-dels) across the genome
2. Library Preparation using the Illumina TruSeq Chemistry
3. Minimum clean data per sample: ca. 7 GB per DNA sample
4. Coverage 10X
5. Sequencing Format: 2x150 bp PE
6. At least 75% of the data should be of Q30 or higher quality
7. Data Analysis should include:
 - a. Raw data QC & Filtering as per standard data QC parameters.
 - b. Base calling
 - c. De-multiplexing raw reads into each sample according to the barcodes.
 - d. Analysis using Standard REFERENCE GENOME BASED PIPELINE.(2 X 100 PE mapping)
 - i. Physical position (chromosome, position & strand)
 - ii. Divergence from reference
 - iii. Polymorphisms (up to 4 variant alleles per tag)
 - iv. Structural genomic variation (SNPs/In-dels) and physical mapping of variations
 - v. Output in Excel sheets indicating clearly the physical position, linkage group etc mandatory
 - vi. Delivery of data in publication ready form (data/assembly stat; assemblies of each sample, and combined reference transcriptome over all samples; Gene/protein annotations, IDs, UniProt details/ontology)
8. Government of India has received a credit from the International Development Association (IDA) in various currencies equivalent to US\$ 14 crores towards the cost of the NAIP Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
9. **Bid Price**
 - a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
 - b) All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.
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 - d) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - e) The Prices shall be quoted in Indian Rupees only.
10. Each bidder shall submit only one quotation.

11. Validity of Quotation

Quotation shall remain valid for a period not less than 15 days after the deadline date specified for submission.

12. Evaluation of Quotations

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

- c. are properly signed ; and
- d. conform to the terms and conditions, and specifications.

The Quotations would be evaluated separately for each item.

Sales tax in connection with sale of goods shall not be taken into account in evaluation.

13. Award of contract

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

13.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

13.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

- 14. Payment shall be made immediately after delivery of the goods.
- 15. Normal commercial warranty/ guarantee shall be applicable to the supplied goods.
- 16. You are requested to provide your offer latest by **11.00.hours** on **10th DECEMBER 2013**
- 17. We look forward to receiving your quotations and thank you for your interest in this project.

Administrative Officer
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