All-India Institute of Medical Sciences
Ansari Nagar, New Delhi-29
(RESEARCH SECTION)

Ref. No. 57/Prop/Anat/AS/2019-20/RS

Dated: 12.03.2020

Subject: Purchase of RNA Sequencing for the Deptt. of Anatomy, AIIMS, New Delhi-29 on proprietary basis- Inviting comments thereon.

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The request has been received from Dr. Arundhati Sharma, Deptt. of Anatomy, AIIMS to purchase the subject item from M/s MedGenome Labs Ltd. (Mfg. by M/s Illumina Singapore Pte. Ltd.) on proprietary basis. The proposal submitted by M/s MedGenome Labs Ltd. and Performa Invoice and Departmental PAC certifications are attached.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within issue of 15 days giving reference **No. 57/Prop/Anat/AS/2019-20/RS**. The comments should be received by office of Stores Officer (RS), Research Section at AIIMS on or before **26/03/2020 upto 12:00 p.m.,** failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

STORES OFFICER (RS)

Encl: Related documents enclosed.
1. PAC Certificate enclosed.
2. Performa Invoice

illumina

March 11, 2019

Proprietary Letter

To Whom It May Concern

We, Illumina Singapore Pte. Ltd., a subsidiary of Illumina, Inc., a Delaware corporation, having its principal place of business at 11 Biopolis Way # 09-05 Helios, Singapore 138667, who is established and reputable manufacturers of Illumina Sequencing & Arrays Systems and the consumables for the Sequencing and Arrays Systems. Hereby, confirm that the following products are solely manufactured by Illumina, Inc., U.S.A. and /or Illumina Singapore Pte. Ltd. and is Proprietary technology of Illumina, Inc., U.S.A.

This is also to certify that M/s Medgenome Labs Ltd., is currently the only commercial service provider in India that has HiSeq 4000 & HiSeq X Ten in house.

Catalog #	Product Description
SY-401-4001	**HiSeq® 4000 Sequencing System** The Illumina HiSeq 4000 Sequencing System is a dual flow cell sequencing instrument. System includes workstation computer, touch screen monitor, HiSeq Control Software, installation kits and standards, installation and training, and 12 months warranty (including parts and labor).
SY-412-1001	**HiSeq X™ Sequencing System (as part of HiSeq X Ten)** HiSeq X is an ultra-high throughput sequencing system, which is sold in quantities of at least 10 units (HiSeq X Ten = collection of 10 HiSeq X). The system is designed for whole genome sequencing application only.

Yours faithfully,

Name: Tan Kah Ling, Mavis
Title: Senior Director, Finance, Asia Pacific
For and behalf of: Illumina Singapore Pte. Ltd.

4. Genes expression estimation (raw) using FeatureCounts: FeatureCounts will be used to derive raw read counts mapping to known genes. These read counts will normalized in DESeq2, to assess gene expression levels. We will not assess FPKM or Splice variant expression unless specific requirement is put forth by the client. These steps occasionally take unpredictable times - and hence providing these services may extend the overall TAT. Moreover, the normalization method used by DESeq2 is documented to be more sensitive than FPKM measure. If there is a requirement for FPKM values, we recommend that the client list it as an additional requirement. We will provide the DESeq2 results within time lines, and the FPKM results as soon as they are over.
5. Differential expression analysis will be performed using DESeq2: we use DESeq2 for identifying differentially expressed genes. These will be provided as supplementary information.
6. For experiments using single sample / test condition, we use a bespoke statistical test, that will result in false negatives (known signature genes showing up as not differentially expressed) due to stringent differential expression cut-offs. However, such stringent cut-offs help us reduce false positives. The optimal way to identify differentially expressed genes, is to add replicates to the experiments.

List of Deliverables

1. The Raw fastq files and QC report containing the read information, data size, average base quality, GC percentage, Base quality distribution.
2. Aligned reads distribution and splice junction information.
3. Genes expression values.
4. List of genes differentially expressed (In case of two or more samples exist)
5. GO annotation for differentially expressed genes such as biological process, molecular function and cellular component, pathway information (KEGG &Reactome). (If differential expression analysis was done).

Cost estimate

S. No.	Description of Services	Quantity	Unit Price (INR)	Total Cost (INR)
1	RNA sequencing with Illumina HiSeqX 2x150bp reads 80M reads/sample. With Bioinformatics Analysis.	100	35,000.00	35,00,000.00
			GST@18%	6,30,000.00
			Total	41,30,000.00

Payment terms

1. PO should be issued in the name of MedGenome Labs Ltd.

MedGenome Labs Ltd. Bangalore

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
ANSARI NAGAR, NEW DELHI-110029

RESEARCH SECTION

PROPRIETORY/SPECIFIC BRAND GOODS CERTIFICATE

1.	Item/Type/Model No. required alongwith specification.	Transcriptome sequencing & analysis of RNA sample / Blood sample
2.	Is the item a spare parts attachment or accessory for an existing equipment.	No
3.	Name of the manufacturers/supplier of the item proposed by the Indentor.	Medgenome
4.	Are they sole manufacturers/sole distributors of the item.	Yes
5.	Is there any other item with similar/ equivalent specification available in the market to meet the job requirement envisaged. If the answer is yes, why the same can't be procured. Demanding officer should bring out comparative functional advantages/cost effectiveness of the recommended item from these offered by other.	No
6.	What were the efforts made to locate alternative source of supply or use other substitutes.	NA
7.	Why open/limited tender can't be resorted to, for locating alter native source.	NA
8.	Are the proprietory items certifiving that the rates are reasonable or not.	Yes
9.	Any other justification for procuring item from single source.	-

Signature of Indentor
(Demanding Officer)

डॉ. अरुन्धती शर्मा
Dr. Arundhati Sharma

COUNTERSIGNE
(Head of the Department)

आचार्य एवं अध्यक्ष/Professor & Head

I certify that the item at Sr. No. 1 above is required to be procured on single tender basis as the source of supply is definitely known/the specified brand proposed was advertages in meeting our functional requirements and limited tender system could be dispensed with as they would serve no useful purpose in this particular case.

4/3/20

(Strike out whichever is not applicable)