

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

**Ref. No. 58/Prop/Ger.Med/ABD/2019-20/RS**

**Dated: 13.03.2020**

**Subject: Purchase of Whole Genome Sequencing for the Deptt. of Geriatric Medicine, AIIMS, New Delhi-29 on proprietary basis- Inviting comments thereon.**

\*\*\*\*\*

The request has been received from Dr. A.B. Dey, Deptt. of Geriatric Medicine, 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. 58/Prop/Ger.Med/ABD/2019-20/RS**. The comments should be received by office of Stores Officer (RS), Research Section at AIIMS on or before **27/03/2020 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**

### Whole Genome Sequencing Technical Specification

1. The samples will be sent as high molecular weight genomic DNA.
2. Each generated sequencing library should be sequenced with 150bp paired end sequencing method and each library should be sequenced with a mean sequencing depth of 30X.
3. Minimum 90GB of cleaned data/sample should be obtained after removal of duplicates, adapter and low-quality sequence/reads.
4. At least 85% of total bases should be > Q30 Phred score.
5. Overall duplicates should be less than 15%
6. Sequencing should be carried out at using Illumina Hiseq X instrument.
7. The vendor should provide a facility certificate to testify the possession of an in-house Illumina Hiseq X10, explicitly in name of the Company.
8. The vendor should have demonstrated scientific capability for the successful completion of undertaken Whole Genomic Projects, as documented by the vendor having peer reviewed publications. Appropriate web link to support this claim should accompany the proposal.
9. Acknowledged recognition for the vendor repute as demonstrated by its participation in any Multi-nation and Multi-ethnic genomics study project will be preferred.
10. Lab Should have necessary automation and through put capacity to complete the project on time.
11. CAP or Equivalent accreditation for Human Whole Genome Sequencing will be preferred
12. Sequencing/ Sample processing need to be done in India.
13. A pilot validation data set should be made available if needed.
14. A reference imputation panel (South Asian, N=5,000+) should be provided along with variant calling.
15. The library-prep should use PCR-free method, use unique dual-index adapters, and the library median peak size should be 410 +/- 20bp.
16. Any unused genomic DNA should be saved and returned.
17. All failed samples, QC data for library preparation and sequencing runs should be provided.
18. The FASTQs should be uploaded to specified Amazon site.

19. Provide detailed analytical and bioinformatics support.

*P. Phadnis*  
Dr. P. P. Chattopadhyay  
Prof. Biochemistry

Dr. Vijay Kumar  
Assistant Professor  
Department of Geriatric Medicine  
A.I.I.M.S., New Delhi-110029

Dr. Resun Chatterjee  
Associate Professor  
Department of Geriatric Medicine  
A.I.I.M.S., New Delhi-110029

*Avinash*  
Dr. Avinash Chakrawarty  
Associate Professor  
Deptt. of Geriatric Medicine  
AIIMS, New Delhi-110029

डॉ. निरुपम मदान  
अपर आचार्य / Additional Professor  
अस्पताल प्रशासन / Hospital Administration  
अखिल भारतीय आयुर्विज्ञान संस्थान / AIIMS  
नई दिल्ली / New Delhi-110029

*A.B. Dey*  
Dr. A.B. Dey  
Professor & Head  
Department of Geriatric Medicine



February 25, 2020

**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 X Ten in house.

Catalog #	Product Description
SY-412-1001	<b>HiSeq X™ Sequencing System (as part of HiSeq X Ten)</b> 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.

Dr. Vijay Kumar  
Assistant Professor  
Department of Geriatric Medicine  
A.I.I.M.S., New Delhi-110029

Dr. Prasun Chatterjee  
Associate Professor  
Dept. of Geriatric Medicine  
AIIMS, New Delhi-110029

Dr. Avinash Chakrawarty  
Associate Professor  
Dept. of Geriatric Medicine  
AIIMS, New Delhi-110029

## 5. Cost estimate and payment details

Table 2. Cost estimate

Description of Services	Quantity	Price Per Sample (INR)	Total (INR)
<b>Whole Genome Sequencing Using Illumina HiSeq X:</b> gDNA QC, library preparation, cluster generation, Illumina HiSeq X sequencing, 2x150 bps reads, Mean Sequencing depth of 30X, Minimum 90 Gb data. At least 85% of total data should be >80% of Q30 Phred Score Overall duplicates should be less than 15%	1	56,000.00	56,000.00
<b>Grand Total (INR)</b>			56,000.00

## 6. Disclaimer

All the samples in this project will be going through an initial QC analysis phase for DNA/library/Data generated and in case the QC fails at either of these levels, the client will be intimated about the same.

In case of failure due to the Sample Quality, repeat sample and testing will be chargeable.

## 7. Payment terms

1. PO should be issued in the name of MedGenome Labs Ltd.
2. Cheque or DD should be issued to 'MedGenome Labs Ltd.' and payable at Bangalore.

Alternatively, details for online payment are mentioned below.

Table 3. Online payment details

Details	Values
Beneficiary	MedGenome Labs Ltd.
Account no.	50200014600092
Bank	HDFC Bank Ltd
IFSC code	HDFC0000140
Branch	RT Nagar, 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. *Whole genome sequencing by a private lab*
2. Is the item a spare parts attachment or accessory for an existing equipment. *Not applicable*
3. Name of the manufacturers/supplier of the item proposed by the Indentor. *M/s MedGenome Labs Ltd, Bengaluru*
4. Are they sole manufacturers/sole distributors of the item. *No*
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. *Many providers of this service are there in the market.  
Proprietary contract rate rates are requested as has been advised by the funding agency and earlier part of the research has been carried out by the firm.*
6. What were the efforts made to locate alternative source of supply or use other substitutes. *Not applicable*
7. Why open/limited tender can't be resorted to, for locating alternative source. *Not applicable*
8. Are the proprietary items certifying that the rates are reasonable or not. *Yes, (much less than anticipated and open to further negotiation)*
9. Any other justification for procuring item from single source. *-*

**Signature of Indentor  
(Demanding Officer)**

*5/31/2020* **PI P N-1665**  
**COUNTERSIGNATURE  
(Head of the Department)**

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 advantages in meeting our functional requirements and limited tender system could be dispensed with as they would serve no useful purpose in this particular case.

**(Strike out whichever is not applicable)**

*5/31/2020*  
**Dr. Vijay Kumar**  
Assistant Professor  
Department of Geriatric Medicine  
A.I.I.M.S., New Delhi-110029

*5/31/2020*  
**Dr. Vijay Kumar**  
Assistant Professor  
Department of Geriatric Medicine  
A.I.I.M.S., New Delhi-110029

*5/31/2020*  
**Dr. Prashant Chatterjee**  
Associate Professor  
Department of Geriatric Medicine  
A.I.I.M.S., New Delhi-110029

*5/31/2020*  
**Dr. Nirupam Madaan**  
Associate Professor / Additional Professor  
Department of Hospital Administration  
A.I.I.M.S., New Delhi-110029