

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


Ref. No. 03/Prop/R.D/Hemato/23-24/RS

Dated: - 28/04/23

Subject: Procurement of GWAS Study using Gene imputation with a South Asian Population Database comprising of more than 4000 sample and cover more than 40 ethnic groups across india -1000 Nos Inviting comments thereon.

The request has been received from Dr. Rishi Dhawan, Asst. Professor, Dept of Hematology, AIIMS, to purchase the subject item from M/s. Medgenome, on proprietary basis. The proposals submitted by M/s. Medgenome, 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. 03/Prop/R.D/Hemato/23-24/RS. The comments should be received by office of Stores Officer (RS), Research Section at AIIMS on or before 13/05/23 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.



Quotation

To,
Dr Rishi Dhawan,
Additional Professor,
Dept of Haematology,
All India Institute of Medical Sciences,
Ansari Nagar, New Delhi – 110029,
India.

S. No.	Description of Services	Quantity	Unit Price (₹)	Total Cost (₹)
1.	GWAS Study- using Gene imputation with a South Asian Population Database comprising of more than 4000 samples and cover more than 40 ethnic groups across India *As per specification attached	1000	5,800.00	5,800,000.00
			Total	5,800,000.00
			GST@ (18%)	1,044,000.00
			Project Cost (₹)	6,844,000.00

Commercial queries:

Suraj Nambiar
Head, Academic Sales
MedGenome Labs Pvt. Ltd.
T : +91 9745 4011 17
E : suraj.n@medgenome.com



Private and Confidential

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डॉ. गणेश कुमार वी.
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ए.आ.आ.ए. नई दिल्ली / A.I.I.M.S., New Delhi-2



डॉ. मनोरंजन महापात्रा
Dr. Manoranjan Mahapatra
प्रोफेसर और प्रमुख / Professor & Head
रुधिर विज्ञान विभाग / Deptt. of Hematology
ए.आ.आ.ए. नई दिल्ली / A.I.I.M.S., New Delhi-2



डॉ. रishi धवन
Dr. Rishi Dhawan
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Certificate of Reasonableness of Price

It is certified that the price quoted in attached quotation for - GWAS Study- using Gene Imputation with a South Asian Population Database comprising of more than 4000 samples and cover more than 40 ethnic groups across India from M/s -MedGenome Labs Ltd on proprietary basis are lowest and best we can quote, the same test or services are not provided at the lower price then quoted to none of any govt. Institutes.



डॉ. मनोहरान महपात्रा
Dr. Manoharan Mahapatra
सहायक प्राध्यापक / Professor & Head
रक्त विज्ञान विभाग / Dept. of Hematology
आर्य समाज मेडिकल कॉलेज
Dr. Rishi Dhawan
सहायक प्राध्यापक / Assistant Professor
रक्त विज्ञान विभाग / Dept. of Hematology
आर्य समाज मेडिकल कॉलेज / A.I.I.M.S., New Delhi-25

7/4/2023
डॉ. रishi धवन
Dr. Rishi Dhawan
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GWAS Study- using Gene imputation with a South Asian Population Database comprising of more than 4000 samples and cover more than 40 ethnic groups across

Technical specifications

1. Genotyping should be done using Illumina GSA V3(Global screening array) which has $\geq 6,00,000$ markers.
2. GSA study should be done with gene data imputation from South Asian Population database (SAS) specific markers which are more specific to the Indian population.
3. Genotype Imputation should be done with a South Asian reference panel must be provided, comprising of more than 4000 samples.
4. Genotype Imputation reference panel should cover more than 40 ethnic groups across India.
5. **1000 Control samples must be provided by the company and database will be shared separately before initiating the project.**
6. Data analysis should be done by experienced PhD level Scientists with 10+years of experience in Bioinformatics.
7. The array should provide critical coverage of the biological categories, such as coding SNPs, and biological pathways
8. Array should cover indels, exome variants, copy number variants (CNV) and top GWAS hits from published studies for the specified diseases.
9. Genotyping results should have $\geq 95.5\%$ SNP call rate, and $\geq 99\%$ reproducibility and should ensure that all the markers are accessible in every batch (adequate supporting machine report must be provided).
10. The vendor should provide raw data with preliminary analysis of the results, including Sample QC, Cluster analysis for SNP classification, internal control evaluation, Called Gender QC, Pass thresholds for sample QC, SNP QC including Call Rate and MAF filters.
11. The vendor should also provide advanced analysis results, including Principal Component Analysis (PCA), Association Testing with dominant, recessive, and additive models, false detection rate testing, multiple test correction test, P-P plot and Q-Q plot.
12. Variant annotation: Complete annotation of the variants obtained above using contemporary tools and their summary statistics should be provided. The names of software and parameters used for the annotation should be provided.
13. Sample Source - Blood, DNA extraction and QC to be done by supplier.
14. Genotyping calls with call rates will be provided as basic quality check of the data.
15. Raw data, sample sheet, and exported files (idat file and .txt files) will be provided.
16. Extracted DNA need to be returned to user address in batch-wise manner as defined by the client.
17. The complete scope of work should be done by the vendor within India.
18. The vendor should provide a facility certificate to testify the possession of an in-house Illumina iScan explicitly in name of the Company (it should not be on lease agreement or tie up or collaborative mode).
19. The vendor should have demonstrated scientific capability for the successful completion of undertaken genomics projects, as documented by the vendor having research publications in peer reviewed journals. Appropriate web link to support this claim should accompany the proposal.
20. Organization should be involved in providing services for the last 5 years. Should have Experience in the field of Microarray for 3-5 years at least. Proof of experience to be submitted.
21. The facility should be CAP accredited for DNA services
22. Should have a confirmed order copy from institutions for working on Global Screening Array Projects, where at least 10000 samples have been processed. Order copy should be shared along with list of user so that feedback can be taken from people who has used the services.
23. Acknowledged recognition for the vendor repute as demonstrated by its participation in any multi-nation and multi-ethnic genomics study project(s) would be preferred.
24. The vendor should specify the GST tax in the financial bid.
25. Scalable polygenic score framework in India and developed a GPSCAD for South Asians
26. Publications in International Journal with Impact factor above 20



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RESEARCH SECTION

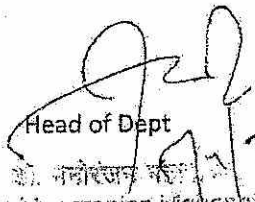
PROPRIETARY/SPECIFIC BRAND GOODS CERTIFICATE

1.	Item/Type/Model Number required along with specification.	GWAS Study- using Gene imputation with a South Asian Population Database comprising of more than 4000 samples and cover more than 40 ethnic groups across India
2.	Is the item a spare part attachment or accessory for an existing equipment.	NA
3.	Name of the manufacturer/sole distributors of the item.	Medgenome Labs Ltd
4.	Are they sole manufacturers/sole distributors of the item.	Yes, As far as our market survey, internet search show that only Medgenome Labs ltd can provide and fulfil specification critical to success of this project.
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 others.	There is no other vendor 1. Medgenome is Labs Ltd is only one who has excess to gene data imputation from South Asian Population database (SAS) specific markers which are more specific to the Indian population. 2. Only Medgenome Labs Ltd has South Asian reference panel and only they can provided, comprising of more than 4000 samples. 3. Only Medgenome Labs ltd has 1000 Control samples and will be provided by the company and database will be shared separately once the project is completed Medgenome Labs Ltd Genotype Imputation reference panel cover more than 40 ethnic groups across India.
6.	What were the efforts made to locate alternative source of supply or use other substitutes.	<ul style="list-style-type: none"> Internet Search Market research from various companies
7.	Why open/ limited tender can't be resorted to, for locating alternative source.	Tendering is not done yet as access to Gene imputation with a South Asian Population Database comprising of more than 4000 samples and cover more than 40 ethnic groups across India is not available in Market. Being Part of South Asian Genome project Medgenome has access to this data.
8.	Are the proprietary items certifying that the rates are reasonable or not.	Yes. Necessary certificates are attached.
9.	Any other justification for procuring item from single source.	No


Signature of Indenter



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Head of Dept


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


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