



# GOVERNMENT INSTITUTE OF MEDICAL SCIENCES

Greater Noida, Gautam Buddha Nagar-201310, Tel-0120-2341738, 9999384468

Website: [www.gims.ac.in](http://www.gims.ac.in), Email-[gimsgnoida16@gmail.com](mailto:gimsgnoida16@gmail.com)

(An Autonomous Institute under Govt. of U.P)

## **INVITING EXPRESSION OF INTEREST (EOI) FROM REPUTED NABL ACCREDITED DIAGNOSTIC CENTERS FOR OPERATION AND MAINTENANCE SERVICES OF BSL -3 & GENE SEQUENCING LABORATORY TESTING FACILITY LABORATORY AT GOVERNMENT INSTITUTE OF MEDICAL SCIENCES**

Government Institute of Medical Sciences (GIMS) Greater Noida invites Expression of Interest (EOI) from prospective diagnostic centres for operation and maintenance services of BSL -3 & GENE SEQUENCING LABORATORY TESTING FACILITY laboratory at Government Institute of Medical Sciences to conduct Diagnostic tests which are not available at GIMS Greater Noida. The empanelment would be valid for the one year and may be extended for further period of one year if mutually agreed between GIMS and diagnostic centre. All services from samples collection to diagnosis will be taken care by the concerned diagnostic centre at GIMS.

Sl. No.	EOI No.	Last Date & Time for submission	Opening Date & Time
1.	EOI/2023-24/Hospital/5010/Operation and Maintenance Services of BSL-3 & Gene sequencing Testing Laboratory Facility at GIMS	06/10/2023 till 05:00pm	06/09/2023

EOI is to be dropped in the box, kept for this purpose which is available in Administration block

Detailed format of EOI may be downloaded from the website [www.gims.ac.in](http://www.gims.ac.in). GIMS reserves the right to reject any or all EOI without assigning any reasons.

For any query, please contact- 7428027595, 9625281928

**Director**

**GIMS**



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## राजकीय आयुर्विज्ञान संस्थान

### GOVERNMENT INSTITUTE OF MEDICAL SCIENCES

Greater Noida, Gautam Buddha Nagar, Contact No- 0120-2341738, 9999384468

Email ID- [gimsgnoida16@gmail.com](mailto:gimsgnoida16@gmail.com) website- [www.gims.ac.in](http://www.gims.ac.in)

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**Advt. No.: GIMS/2023/Misc./08**

**Date: 06/09/2023**

### **EXPRESSION OF INTEREST (EOI)**

1. EOI/2023-24/HOSPITAL/5006/Running Stationary Shop.
2. EOI/2023-24/Hospital/5009/Supply of Vaccines for Immunization of Children 0-8 years.
3. EOI/2023-24/Hospital/5010/Operation and Maintenance Services of BSL-3 & Gene Sequencing Testing Laboratory Facility at GIMS.
4. EOI/2023-2024/ Hospital/5012/Providing Attendant facility for In-Patients.

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## **INTRODUCTION**

1. Government Institute of Medical Sciences, Greater Noida, is an autonomous tertiary care institute of Government of UP, with a mission to provide affordable health services to all sections of the society and has been envisioned to be in the forefront of providing excellent professional medical education and multi-disciplinary research. The institute has started MBBS (2019), DNB (2020), College of nursing (2021), and Paramedical School (2021).
2. GIMS was established with an aim to improve the status of health of the rural and urban population of western Uttar Pradesh, by providing a state-of-the-art health facility as well as facilitating equitable access to quality health care through a revamped health care system, targeted outreach services as well as involvement of community and local bodies. The Mission of the institute is to provide comprehensive medical facilities to each and every life without discrimination along with developing GIMS as a center of excellence in the field of health delivery system, medical education and research.
3. The institute has state of the art infrastructure, well equipped high-end equipments and NABL accredited laboratories, modular operation theatres along with Skill lab. GIMS hospital is fully functional providing comprehensive care in all the broad specialties. There are approximately 1500-2000 patients are visiting every day and more than 350 patients are admitted in the hospital. The total no of patients reported in 2022 are approx. 3, 25,796 and 18409 patients were admitted in the hospital. The institute is providing various medical facilities as critical care, surgeries, Investigations, Dialysis, CT scan etc. to the patients. Due to its location at the gateway of NCR, there is a huge demand of Medicare in the region and the institute need to develop in to a large multispecialty hospital.

## **PROPOSAL**

1. This EOI is for those various molecular Diagnostic tests, which are not available in Institutional Central Laboratory at any given time.
2. The Service Provider shall be responsible for Operation & Maintenance (O&M) of BSL -3 & Gene sequencing Laboratory Testing Facility at GIMS for 24 hours (round the clock) basis
3. The existing Genetic Lab infrastructure shall be handed over to the Service Provider on as-is-where-is basis, the service provider shall have to make complete arrangement right from



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recruitment of competent manpower to procurement of any additional equipment, consumables, and reagent kits to successfully run the operations.

4. Ref no. EOI/2023-24/Hospital/5010/Operation and Maintenance Services of BSL-3 & Gene sequencing Testing Laboratory Facility at GIMS
5. Advertisement was published in **Hindustan Times & Dainik Jagran with Advt. no.: GIMS/2023/Misc./08 dated 08/09/2023**
6. Last date of submission of application is **06/10/2023** till 04:00pm
7. Application fee **Rs. 1180/- (One Thousand One Hundred Eighty only)** including 18% GST in form of DD in favor of Director, GIMS Greater Noida payable at Greater Noida.
8. Security deposited **Rs. 25000/- (Twenty-five thousand only)** to be deposited by successful bidders only.
9. With a view to provide the comprehensive Medicare under one roof, the institute intends to provide all the investigations in the hospital premises.
10. The institute provides all the investigations at a highly subsidized rates on the lines of KGMU Lucknow to the poor and needy patients as a welfare measure for patients attending GIMS, Greater Noida. The proposal should contain rate concession on complete rate list. At any point the rate of investigations should not be higher than the rate list of King's George Medical College (KGMC), Lucknow, U.P. Revenue sharing proportion should be mentioned in the proposal along with the rate list of King's George Medical College (KGMC), Lucknow, U.P offered.

GIMS reserves right

- (i) to take final decision regarding empanelment or to modify or scrap the process,
- (ii) to accept or reject the request of any labs for empanelment, and
- (iii) To keep or remove any lab on the panel approved for out sourced molecular diagnostic tests.

The detailed terms & conditions for empanelment and process of execution of Diagnostic tests to be outsourced from GIMS have been given in **Para - '2'**. Interested NABL labs may apply for empanelment as per Proforma given at **Appendix-'A'**



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## 1. ELIGIBILITY CRITERIA

Lab/ Agency/ should have: -

- a) Minimum experience of five years in the field of molecular Diagnostic investigations.
- b) The intending laboratory must have proof of average annual turnover of **Rs. 10 Crores or more** in the last three (3) financial years certified by the Chartered Accountant.
- c) The Intending laboratory who has been blacklisted / debarred/ banned by other State Government / Central Govt. Organization /State Medical Corporations/ Director Health Services (U.P.) and or convicted by any court of law due to
  - Poor Services rendered
  - Submission of fake or forged documents
  - Submission of incorrect information / Suppression of vital information & facts/misrepresentation of quality certificates
  - Nonperformance or non-execution of project is not eligible to participate in the tender during the period of blacklisting / debarment/ Banned for the intended services during the period of blacklisting. Bidder / manufacturing unit which has been blacklisted / debarred/banned by GIMS for any reasons is not eligible to participate in the process during the period of blacklisting / debarment/banned.
- d) The Organization must have collection center located at the Gautam Buddha Nagar/ Delhi
- e) Service provider should have all the valid registration documents for compliance to all statutory requirements i.e., registration with appropriate authority.
- f) The service provider must have accreditation from NABL.
- g) The service provider should have its full-fledged its own unit for investigations.
- h) Inspection may also be undertaken by the evaluation committee of GIMS before empanelment if necessary.

**SUBMISSION OF PROPOSAL:** Interested companies may apply for empanelment for undertaking of pathological tests which are to be outsourced by GIMS related to details of establishment along with the following documents :( self-attested copies)

- I Registration certificate with appropriate authority i.e.
- II The envelope must bear **“EOI from reputed diagnostic centres for operation and maintenance services of BSL -3 & GENE SEQUENCING LABORATORY TESTING FACILITY laboratory at Government Institute of Medical Sciences”** as well as the mailing address and contact information of bidder to facilitate returning the document in case of late submission.



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## 2. GENERAL TERMS AND CONDITIONS

1. Applications should be submitted in the prescribed form only. Technical form (Appendix A) and rate quotation form (appendix B) should be submitted in separately in sealed envelope.
2. Validity of Contract: **01 years (One Year); extendable up to 3 years** from the date of signing of the contract from both the side.
3. Empanelment will be done on the basis of criteria enumerated in this document along with professional competence and status of the NABL Labs.
4. Service provider must use their own resources for providing the service. The price quoted shall be inclusive of factors like equipments, consumables, reagents, testing kit, human resourcing (HR), supportive infrastructure, operational and maintenance cost and all other incidental charges (Excluding GST). **Service provider can use the equipments/machines already installed in BSL -3 & GENE SEQUENCING LABORATORY TESTING FACILITY laboratory at GIMS provided AMC/CMC cost with rent would be bear by the concerned service provider.**
5. The Labs will be responsible to collect the samples from the sample collection area of GIMS.
6. The selected vendor will provide services at point of care and results will be made available at shortest period.
7. Service provider must use their own resources for providing the service.
8. The work of the GIMS is time bound and the lab which is assigned the job would be required to complete the job within the time given by GIMS.
9. It will be the responsibility of the labs to reports made available online\hard copy to the GIMS at shortest period.
10. In case of unsatisfactory report or invalid results, the repetition of tests will be done by the laboratory itself.
11. Any suspension of work due to failure of machines/ analyzer or any other reason the required tests will be arranged by laboratory from any other laboratory with their cost during specified period with intimation to this hospital authority.
12. The reports should be signed by the competent authority of the empanelled laboratory posted in the corresponding testing facility/facilities in Greater Noida. The reports would be the property of GIMS and shall be confidential. These reports shall not be used for any research or other purpose by the empanelled laboratory.
13. The payments for the investigations from the patients to be deposited in the cash section of GIMS. The service provider will raise its invoice based on the actual tests





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conducted for the previous month duly accompanied by evidences of the actual tests conducted during this period. GIMS shall also make the payment within 10 days to the service provider on monthly basis based on the actual tests conducted for the previous month.

14. The lab applying for empanelment should furnish all the particulars related to its status and functioning.
15. The NABL labs applying for empanelment will be required to provide Service Tax No./Commercial tax No and PAN no. along with validity of registration with appropriate authority.
16. The date of declaration of qualified/empanelled labs will be at the discretion of GIMS.
17. All the pages of the EOI are to be self-attested.
18. Rate quotation form will be submitted in separate envelop.
19. The bidder has to furnish an undertaking that the organization has not been blacklisted in the past by any Government Departments /Boards/ Corporations or reputed Private Companies.
20. GIMS reserves the right to accept or reject any or all the EOIs without assigning any reasons thereof.
21. GIMS shall have the right to delete any lab from the panel during the currency of the period of the empanelment, without assigning any reason thereof.

Interested person/bidders to submit their applications by due date and time to Director, GIMS, Greater Noida. For any other query kindly contact-9818676354, 7275344173

## **PROCESS FOR ALLOTMENT OF WORK ORDER**

The EOI received in response will be technically evaluated by the evaluation committee of GIMS which may also undertake an onsite inspection or the qualified organization/Lab will be asked to make a presentation regarding their technical capabilities.

### **Empanelment**

Rate quotation will be open for all the technically qualified labs. Orders will be issued to the Labs who will quote the lowest final rates for tests but at any point the rate of investigations should not be higher than the rate list of King's George Medical College (KGMC), Lucknow, U.P.



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## Appendix A

### PROFORMA

#### Details of Lab Establishment

1. Name & Postal address of Diagnostic Lab
2. Telephones Nos.:
  - i. E-mail:
  - ii. Fax Nos.
  - iii. Mobile No's:
3. Nature of Establishment: (Sole/Partnership/otherwise) and its registration
4. Name & address of Partners or Directors or Owner
5. Date of NABL accreditation & all the test under scope of NABL accreditation certificate relating to respective tests
6. Commercial Tax Regd. No.:
7. Service Tax No.:
8. PAN No.:
9. Awards of Excellence in the field if any
10. Any other information

Signature of the Proprietor/Authorized Signatory	Rubber Seal indicating complete address: Place Date:
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**Kindly drop EOI documents** in the box kept at ground floor, administrative block in GIMS premises. Any documents received after the stipulated period & will not be considered and will be rejected.





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Appendix B

## PROFORMA FOR RATE QUOTATION

### A. Revenue Sharing

S.No	Name of Laboratory	Revenue sharing offered (In percentage)



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1	AFB/TB - Mycobacterium Tuberculosis DNA	Molecular

**LIST OF TEST TO BE PERFORMED IN BSL-3 LABORATORY**



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	PCR	(Real Time PCR)
2	AFFYMETRIX MICROARRAY GENECHIP SCANNING	Molecular (Gene chip Scanning)
3	AML CATEGORIZATION, PCR	Molecular (Real Time PCR)
4	AML ETO t(8;21) GENE REARRANGEMENT QUANTITATIVE, MRD MONITOR	Molecular (Real Time PCR)
5	AML ETO t(8;21) GENE REARRANGEMENT, PCR QUALITATIVE	Molecular (Real Time PCR)
6	AUTOSOMAL DOMINANT CEREBELLAR ATAXIA EXTENDED PROFILE	Molecular
7	BACTERIAL PNEUMONIA PANEL , PCR	Molecular (PCR)
8	B-CELL REARRANGEMENT DETECTION	Molecular (PCR Fragment analysis)
9	BCR-ABL PCR, QUANTITATIVE	Molecular (Real Time PCR)
10	BCR-ABL QUANTITATIVE, MRD MONITOR	Molecular (Real Time PCR)
11	BRCA1 & BRCA2 MUTATION ADVANCED PANEL	Molecular (Next Generation Sequencing)
12	BRCA1 & BRCA2 MUTATION COMPREHENSIVE PANEL	Molecular (NGS)
13	BRCA1 & BRCA2 MUTATION DRUG PROFILING PANEL	Molecular (NGS)
14	BRCA1 & BRCA2 MUTATION SCREEN	Molecular(Next Generation Sequencing)
15	CANCER 50 GENE PANEL, NGS	Molecular(NGS)
16	CANCER GENE ANY 3 MARKERS, NGS	Molecular (Next generation sequencing )
17	CHIKUNGUNYA VIRUS, PCR QUALITATIVE	Molecular (Real Time PCR)
18	CHIMERISM SPLIT CELL ANALYSIS - MYELOID CELL (CD15)	Molecular (PCR, STR / Fragment analysis)
19	CHIMERISM SPLIT CELL ANALYSIS - T Cell (CD3)	Molecular(PCR, STR / Fragment Analysis)
20	CHIMERISM, POST-ENGRAFTMENT	Molecular



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		(PCR, Fragment analysis)
21	CHIMERISM, PRE-ENGRAFTMENT	Molecular (PCR, Fragment analysis)
22	CHIMERISM, PRE-ENGRAFTMENT, DONOR & RECIPIENT	Molecular (PCR, Fragment analysis)
23	CHLAMYDIA TRACHOMATIS, PCR	Molecular (Real Time PCR)

24	CHLAMYDIA ANTIGEN, RAPID	Molecular (Immunochromatography)
25	CHLAMYDIA TRACHOMATIS AND NEISSERIA GONORRHOEA, PCR QUALITATIVE	Molecular (Real Time PCR)
26	CHROMOFIC CHROMOSOME SNP MICROARRAY 750K, HIGH RESOLUTION	Molecular (Affymetrix CytoScan™ 750K Microarray)
27	CHROMOSOME ANALYSIS FOR HEMATOLOGIC MALIGNANCY	Molecular (Culture, Robotic Microscopy, Karyotype)
28	CHROMOSOME ANALYSIS (KARYOTYPE), BLOOD	Molecular (Culture, Robotic Microscopy, Karyotype)
29	CHROMOSOME ANALYSIS, SOLID TUMOR	Molecular (Culture, Microscopy, Karyotype)
30	CHROMOSOME ANALYSIS (KARYOTYPE) COUPLE, BLOOD	Molecular (Culture, Robotic Microscopy, Karyotyping)
31	CHROMOSOME ANALYSIS, AMNIOTIC FLUID	Molecular (Culture, Microscopy, Karyotype)
32	CHROMOSOME ANALYSIS, CHORIONIC VILLUS	Molecular (Culture, Microscopy, Karyotype)
33	CHROMOSOME ANALYSIS, HIGH RESOLUTION, NEONATAL	Molecular (72 hr stimulated cultures with appropriate serum & antibiotics)
34	CHROMOTOUCH CHROMOSOME SNP MICROARRAY OPTIMA, PRENATAL	Molecular (Affymetrix Optima Suite™ Microarray)
35	CHROMOTOUCH CHROMOSOME SNP MICROARRAY OPTIMA, PRODUCTS OF CONCEPTION	Molecular (Affymetrix Optima Suite™ Microarray)
36	CHRONIC LYMPHOCYTIC LEUKEMIA (CLL), MUTATIONS DETECTION	Molecular (PCR, MLPA)



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	COMPREHENSIVE PANEL	
37	CHRONIC LYMPHOCYTIC LEUKEMIA (CLL), MUTATIONS DETECTION PANEL 2	Molecular (PCR, MLPA)
38	CHRONIC LYMPHOCYTIC LEUKEMIA (CLL), MUTATIONS DETECTION PANEL 1	Molecular (PCR - MLPA)
39	CIRCULATING TUMOR CELLS (CTC) FOR BREAST CANCER	Molecular (Extraction, Staining)
40	CIRCULATING TUMOR CELLS (CTC) FOR COLORECTAL CANCER	Molecular (Extraction, Staining)
41	C-KIT MUTATION DETECTION , PCR	Molecular (PCR)
42	COMT GENOTYPING	Molecular(PCR Sequencing)
43	CONNEXIN 26 MUTATION DETECTION	Molecular (PCR)
44	CONNEXIN 30 MUTATION DETECTION	Molecular (PCR Sequencing)
45	CRYPTOCOCCUS NEOFORMANS DETECTION, PCR	Molecular (PCR)

46	CYP2C19 GENOTYPING	Molecular (PCR, Sequencing)
47	CYP3A4*22 GENOTYPING	Molecular(PCR, Sequencing)
48	CYSTIC FIBROSIS MUTATION DETECTION	Molecular (PCR, Sequencing)
49	CYTOMEGALOVIRUS (CMV), DNA,QUANTITATIVE, PCR	molecular (Real Time PCR)
50	CYTOMEGALOVIRUS (CMV), QUALITATIVE PCR	molecular (Real Time PCR)
51	DENGUE VIRUS, PCR QUALITATIVE	molecular ( Real Time PCR)
52	DNA PROFILING/FINGER PRINTING FOR ESTABLISHING PATERNITY/KINSHIP/LINEAGE STUDIES	Molecular (PCR, STR analysis)
53	DRPLA (DENTATORUBRAL-PALLIDOLUYSIAN ATROPHY) GENE ANALYSIS	Molecular (PCR, Fragment Analysis)
54	DRPLA GENE ANALYSIS	Molecular (PCR, Fragment Analysis)



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55	DUCHENNE / BECKER MUSCULAR DYSTROPHY (DMD / BMD) GENE MUTATION	Molecular (MLPA)
56	EGFR, MUTATIONAL ANALYSIS	Molecular (PCR, Sequencing, Fragment analysis)
57	ENTEROVIRUSES, QUALITATIVE, PCR	Molecular (Real Time PCR)
58	EPISODIC ATAXIA TYPE 1, KCNA1 GENE MUTATION	Molecular (PCR, Sequencing)
59	EPISODIC ATAXIA TYPE 2, CACNA1A GENE MUTATION	Molecular (PCR, Sequencing)
60	EPSTEIN BARR VIRUS (EBV), PCR QUANTITATIVE	Molecular (Real Time PCR)
61	EPSTEIN BARR VIRUS (EBV), QUALITATIVE PCR	Molecular (Real Time PCR)
62	FACTOR V LEIDEN MUTATION ANALYSIS	Molecular (Real Time PCR)
63	FRAGILE X (FMR1) MUTATION SCREEN	Molecular (TP-PCR, Fragment analysis)
64	FRAGILE X TREMOR/ATAXIA SYNDROME; (FXTAS)	Molecular (PCR, Sequencing)
65	G6PD GENE MUTATION DETECTION	Molecular (PCR)
66	GALACTOSEMIA (GALT) GENE MUTATION DETECTION	Molecular(PCR Sequencing)
67	GANCICLOVIR RESISTANCE DETECTION	Molecular (PCR Sequencing)
68	GENETIC MAPPING FOR CARDIOVASCULAR DISORDERS	Molecular(SNP Genotyping using Microarray)

69	GENETIC MAPPING FOR GYNECOLOGICAL DISORDERS	Molecular (SNP Genotyping using Microarray)
70	GENETIC MAPPING FOR ONCOLOGY / CANCER	Molecular(SNP Genotyping using Microarray)
71	GENETIC MAPPING FOR WHOLE GENOME	Molecular(SNP Genotyping using Microarray)
72	GENEXPERT COMBO.COM*Genexpert with	Molecular





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	Rifampicin resistance* Culture AFB, Rapid, AFB stain	(Real Time Nested PCR & Melt Peak Detection)
73	GENEXPERT MTB WITH RIFAMPICIN RESISTANCE, QUALITATIVE, PCR	Molecular (Real Time Nested PCR & Melt Peak Detection)
74	GLIOMA PROGNOSTIC PANEL	Molecular (PCR, NGS)
75	GLUTATHIONE-S-TRANSFERASE MUTATION DETECTION	Molecular (PCR, NGS)
76	H1N1 (SWINE FLU) QUALITATIVE, REAL TIME PCR	Molecular (Real Time PCR)
77	HAINS MYCOBACTERIUM TUBERCULOSIS FIRST & SECOND LINE DRUG RESISTANCE PROFILE	Molecular (PCR, Line probe assay)
78	HAPTOGLOBIN GENOTYPING	Molecular (PCR)
79	HEMOCHROMATOSIS 2 MUTATION DETECTION	Molecular (Real Time PCR)
80	HEMOGLOBIN D IRAN MUTATION ANALYSIS	Molecular (Real Time PCR)
81	HEMOGLOBIN D PUNJAB MUTATION ANALYSIS	Molecular (Real Time PCR)
82	HEMOGLOBIN E (GLU 26LYS) MUTATION ANALYSIS	Molecular (Real Time PCR)
86	HEPATITIS A VIRUS RNA DETECTION, PCR	Molecular (PCR)
84	HEPATITIS ACUTE VIRUS SCREEN	Molecular (PCR)
85	HEPATITIS ATYPICAL VIRUS CONFIRMATION	Molecular (PCR)
86	HEPATITIS B VIRAL (HBV DNA), QUANTITATIVE REAL TIME PCR, ULTRA	Molecular (Real Time PCR – Taqman technology)
87	HEPATITIS B VIRAL DNA (HBV DNA) QUANTITATIVE, REAL TIME PCR	Molecular (Real Time PCR – Taqman technology)
88	HEPATITIS B VIRAL DRUG RESISTANCE & GENOTYPING	Molecular (PCR, Sequencing)



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89	HEPATITIS B VIRUS GENOTYPING, DRUG RESISTANCE & QUANTITATIVE PCR	Molecular (Sequencing, Real Time PCR)
90	HEPATITIS B VIRUS, PCR, QUALITATIVE; HBV DNA PCR, QUALITATIVE	Molecular (PCR)
91	HEPATITIS C VIRAL RNA (HCV RNA) QUANTITATIVE, REAL TIME PCR	Molecular (Real Time PCR - Taqman technology)
92	HEPATITIS C VIRAL RNA (HCV RNA) QUANTITATIVE, ULTRA	Molecular (Real Time PCR – Taqman technology)
93	Hepatitis C Viral RNA Genotype 1 NS5a Drug Resistance	Molecular (PCR, Sequencing)
94	HEPATITIS C VIRAL RNA, GENOTYPE	Molecular
95	HEPATITIS C VIRAL, PCR, QUALITATIVE; HCV RNA, PCR, QUALITATIVE	Molecular (Real Time PCR)
96	HEPATITIS D VIRUS DETECTION, PCR	Molecular (PCR)
97	HEPATITIS E VIRUS DETECTION, PCR	Molecular (Real Time PCR)
98	HEPATITIS G VIRUS RNA DETECTION, PCR	Molecular (Real Time PCR)
99	HEPATITIS E VIRUS (HEV) DETECTION, QUANTITATIVE PCR	Molecular (Real Time PCR)
100	HEPATOCELLULAR CARCINOMA (HCC) PANEL	Molecular (Spectrophotometry, CMIA)
101	HEREDITARY CANCER GENE PANEL - EXTENDED	Molecular (NGS)
102	HERPES SIMPLEX VIRUS (HSV) TYPE 1 & 2, PCR, QUALITATIVE	Molecular (PCR, Amplification)
103	HERPES SIMPLEX VIRUS (HSV) TYPE 2, PCR, QUALITATIVE	Molecular (Real Time PCR)
104	HERPES SIMPLEX VIRUS (HSV) TYPE I, PCR, QUALITATIVE	Molecular (Real Time PCR)



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103	HIV 1 GENOTYPING & DRUG RESISTANCE	Molecular (Reverse Transcriptase PCR, DNA Sequencing)
104	HIV 1 RNA QUANTITATIVE, REAL TIME PCR	Molecular(Real Time RT-PCR)
105	HIV 1 RNA QUANTITATIVE, REAL TIME PCR WITH CD3 / CD4 (IMMUNE DEFICIENCY PANEL 4) MARK	Molecular(Real Time RT-PCR)
106	HIV 1 RNA QUANTITATIVE, REAL TIME PCR WITH CD3, CD4 / CD8 (IMMUNE DEFICIENCY PANEL 2)	Molecular(Real Time RT-PCR)
107	HIV-2 DETECTION , PCR	Molecular (PCR)
108	HLA DNA HIGH RESOLUTION TYPING - A LOCUS	Molecular (PCR, NGS)
109	HLA DNA HIGH RESOLUTION TYPING - B LOCUS	Molecular (PCR, NGS)
110	HLA DNA HIGH RESOLUTION TYPING - C LOCUS	Molecular (PCR, NGS)
111	HLA DNA HIGH RESOLUTION TYPING - DQB1 LOCUS	Molecular (PCR, NGS)
112	HLA DNA HIGH RESOLUTION TYPING - DRB1 LOCUS	Molecular (PCR, NGS)
113	HLA DNA HIGH RESOLUTION TYPING A, B, C, DR & DQ	Molecular (PCR, NGS)
114	HLA DNA TYPING FOR BONE MARROW TRANSPLANT, 10 ANTIGENS, PCR	Molecular (PCR, NGS)
115	HLA DNA TYPING FOR BONE MARROW TRANSPLANT, 6 ANTIGENS, LUMINEX	Molecular (PCR, NGS)
116	HLA DNA TYPING FOR KIDNEY / LIVER TRANSPLANT, PCR	Molecular (PCR, NGS)
117	HLA DNA TYPING HIGH RESOLUTION BY NEXT GENERATION SEQUENCING (NGS)	Molecular (PCR, NGS)
118	HLA DONOR SPECIFIC IgG ANTIBODIES & PANEL REACTIVE ANTIBODIES SCREEN PROFILE	Molecular (PCR, NGS)



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119	HPV (HUMAN PAPILOMA VIRUS) DETECTION & GENOTYPING, QUALITATIVE, PCR	Molecular (Real Time PCR)
120	HPV, CHLAMYDIA TRACHOMATIS & NEISSERIA GONORRHEA PCR PANEL, QUALITATIVE	Molecular (Real Time PCR)
121	HUMAN HERPES VIRUS 7 (HHV7), QUALITATIVE PCR	Molecular (Real Time PCR)
122	HUMAN HERPESVIRUS 6 (HHV6), QUALITATIVE PCR	Molecular (Real Time PCR)
123	INTERLEUKIN 28B rs12979860 & rs 8099917 GENOTYPING, QUALITATIVE, PCR	Molecular (Real Time PCR)
124	Inv 16 (p13q22) / t(16;16)(p13;q22) GENE REARRANGEMENT QUALITATIVE, PCR	Molecular (Real Time PCR)
125	Inv 16 (p13q22) / t(16;16)(p13;q22) GENE REARRANGEMENT QUANTITATIVE, MRD MONITOR	Molecular Real Time PCR
126	JAK 2 EXON 12, MUTATION DETECTION	Molecular (PCR, Fragment analysis)
127	JAK 2 MUTATION DETECTION, QUALITATIVE PCR	Molecular (Real Time PCR)
128	JAK 2 V617F REFLEX TO JAK 2 EXON 12, MUTATION DETECTION	Molecular (Real Time PCR, Fragment Analysis)
129	JAK 2 V617F, CALR & MPL, MUTATION DETECTION PROFILE	Molecular(Real Time PCR, Sequencing, Fragment Analysis)
130	JAK2 EXON12 MUTATION DETECTION BY PCR-SEQUENCING	Molecular(Real Time PCR, Sequencing, Fragment Analysis)
131	JAPANESE ENCEPHALITIS VIRUS (JEV), DETECTION PCR	Molecular (REAL TIME PCR)
132	JAPANESE ENCEPHALITIS VIRUS DETECTION , PCR	Molecular (REAL TIME PCR)
133	JC/BK VIRUS DETECTION , PCR	Molecular (REAL TIME PCR)
134	KIR GENOTYPING	Molecular
135	KRAS & NRAS MUTATION ANALYSIS PANEL	Molecular (PCR, Sequencing)



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136	KRAS CODON 61 MUTATION DETECTION	Molecular(PCR)
137	KRAS MUTATION, CODON 12 & 13 FRAGMENT ANALYSIS	Molecular (PCR, Fragment Analysis)
138	LEIGH SYNDROME MITOCHONDRIAL MUTATION DETECTION	Molecular (PCR, Sequencing)
139	LEPTOSPIRA DETECTION, PCR	Molecular(PCR)
140	LEUKEMIA GENETIC PROFILE - ANY 6 MARKERS, PCR, QUALITATIVE	Molecular(Real Time PCR)
150	LIQUID BIOPSY, ctDNA, EGFR	Molecular (EGFR mutation analysis Droplet Digital PCR)
151	LYME DISEASE (BORRELIA BURGDORFERI) DNA, QUALITATIVE REAL TIME PCR	Molecular (Real Time PCR)
152	MALARIA DETECTION , PCR	Molecular (PCR)
153	MATERNAL BLOOD FOR FETAL DNA (NIPT)	Molecular(DNA Sequencing)
154	MATERNAL BLOOD FOR FETAL DNA (NIPT) WITH MICRODELETIONS	Molecular(DNA Sequencing)
155	MELAS (MITOCHONDRIAL ENCEPHALOPATHY & LACTIC ACIDOSIS WITH STROKE LIKE SYNDROME),	Molecular( PCR, Sequencing)
156	MERRF (MYOCLONIC EPILEPSY ASSOCIATED WITH RAGGED RED FIBRES), MUTATION DETECTION	Molecular(PCR)
157	METHYLGUANINE METHYLTRANSFERASE (MGMT)	Molecular (PCR)
158	MICM (MATERNALLY INHERITED CARDIOMYOPATHY), MUTATION DETECTION	Molecular(PCR)
159	MICROSATELLITE INSTABILITY (MSI), PCR	Molecular (PCR, Fragment Analysis)
160	MITOCHONDRIAL ENCEPHALOMYOPATHY, LACTIC ACIDOSIS AND STROKE-LIKE EPISODES (MELAS)	Molecular (PCR, Sequencing)
161	MITOCHONDRIAL MUTATION DETECTION PANEL 1	Molecular ( PCR, Sequencing)



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162	MITOCHONDRIAL MUTATION DETECTION COMPREHENSIVE PANEL	Molecular ( PCR, Sequencing)
163	MMC (MATERNAL MYOPATHY WITH CARDIOMYOPATHY), MUTATION DETECTION	Molecular (PCR)
164	MPL (MYELOPROLIFERATIVE LEUKEMIA), GENE MUTATION	Molecular (PCR, Fragment analysis)
165	MTHFR (METHYLENE TETRAHYDROFOLATE REDUCTASE) GENE MUTATION, QUALITATIVE PCR	Molecular (Real Time PCR)
166	MYCOBACTERIUM TUBERCULOSIS, PCR; MYCOSURE; TB PCR	Molecular (Real Time PCR)
167	MYCOBACTERIUM TUBERCULOSIS, rRNA DETECTION, TMA	Molecular (PCR)
168	MYELIN BASIC PROTEIN; MBP	Molecular (RIA)
169	MYELOPROLIFERATIVE NEOPLASIA (MPN) EXTENDED PROFILE	Molecular(Real Time PCR, Sequencing)
170	MYOTONIC DYSTROPHY COMPREHENSIVE PROFILE	Molecular (PCR, Fragment Analysis)
171	MYOTONIC DYSTROPHY TYPE 1	Molecular (PCR, Fragment Analysis)
172	MYOTONIC DYSTROPHY TYPE 2	Molecular (PCR, Fragment Analysis)
173	NEISSERIA GONORRHEA, PCR QUALITATIVE	Molecular (Real Time PCR)
174	NGS GASTRO PANEL *ERBB2, *KIT, *BRAF, *PDGFRA, *TP53	Molecular (NGS)
175	NGS LUNG PANEL *MET, *KRAS, *BRAF, ERBB2, *EGFR	Molecular (NGS)
176	NGS NEURO PANEL *ATRX *TP53 * IDH 1 & 2 *PTEN *BRAF	Molecular (NGS)
177	NPM1 GENE MUTATION	Molecular (PCR, Fragment analysis)
178	NPM1 GENE MUTATION QUANTITATIVE, MRD MONITOR	Molecular(Real Time PCR)





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179	NRAS MUTATION CODON 12, 13 & 61	Molecular (PCR, Sequencing)
180	Nx GEN CARRIER SEQUENCING	Molecular (NGS, Sanger sequencing)
181	Nx GEN CLINICAL EXOME SEQUENCING, ADVANCED	Molecular (NGS, Sanger sequencing)
182	Nx GEN CLINICAL EXOME SEQUENCING, BASIC	Molecular (NGS, Sanger sequencing)
183	Nx GEN CLINICAL EXOME SEQUENCING, REFLEX CONFIRMATION WITH PARENTS	Molecular (NGS, Sanger sequencing)
184	Nx GEN CLINICAL EXOME SEQUENCING, ULTRA	Molecular (NGS, Sanger sequencing)
185	Nx GEN SEQ, DUCHENNE & BECKER MUSCULAR DYSTROPHY For MLPA negative cases	Molecular (NGS, Sanger sequencing)
186	Nx GEN WHOLE EXOME SEQUENCING, TRIO Whole exome sequencing of Proband & both parents	Molecular (NGS, Sanger sequencing)
187	PIK3CA MUTATION ANALYSIS	Molecular (PCR, Sequencing)
188	PLASMINOGEN ACTIVATOR INHIBITOR-1/SERPINE-1, 4G/5G GENOTYPING	Molecular(PCR)
189	PML RARA t(15;17)(q22;q12) GENE REARRANGEMENT QUALITATIVE, PCR	Molecular (Real Time PCR)
190	PML RARA t(15;17)(q22;q12) GENE REARRANGEMENT QUANTITATIVE, MRD MONITOR	Molecular (Real Time PCR)
191	PML RARA t(15;17)(q22;q12) GENE REARRANGEMENT QUANTITATIVE, PCR	Molecular (Real Time PCR)
192	Preimplantation Genetic Diagnosis (PGD)	Molecular(Next Generation Sequencing)
193	Preimplantation Genetic Screening (PGS)	Molecular(Next Generation Sequencing)
194	QF-PCR	Molecular(PCR)
195	RETT SYNDROME DETECTION	Molecular (PCR Sequencing)
196	SANGER SEQUENCING, SINGLE VARIANT	Molecular(Sanger sequencing)



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197	t(1;19) (q23;p13.3); TCF3- BX1(E2A-PBX1), PCR QUALITATIVE	Molecular (Real Time PCR)
198	t(11;19) (q23;p13.3); (MLL-ENL), PCR QUALITATIVE	Molecular (Real Time PCR)
199	t(12;21) (p13;q22); ETV6-RUNX1 (TEL-AML1), PCR QUALITATIVE	Molecular (Real Time PCR)
200	t(4;11) (q21;q23); (MLL-AF4), PCR QUALITATIVE	Molecular (Real Time PCR)
201	t(9;11) (p21-22;q23); (MLL-AF9), PCR QUALITATIVE	Molecular (Real Time PCR)
202	Y-CHROMOSOME MICRODELETION DETECTION , PCR	Molecular(Multiplex PCR)
203	Chikunguniya Detection	Molecular (Real Time PCR)

The list of tests may increase / decrease with the permission of the GIMS Administration