

Gujarat Biotechnology Research Centre
Department of Science & Technology, Government of Gujarat
Circular No: GBRC/Dir/Shared.Fac/6566/2022-23/80
Date: 06-05-2022 (A)

READ:

1. Government Resolution No: BTM-102016-299-BT dated 11/08/2017
2. Government Resolution No: BRC-102018-29-BT dated 20/04/2018
3. Government Resolution No: BTM-102018-30-BT dated 20/04/2018
4. GBRC Circular No: GBRC/Dir/Shared.Fac/709/2018-19/80 dated 16/11/2018

CIRCULAR

Subject: Guidelines for using Shared Laboratory facility of GBRC

The Government of Gujarat has constituted an independent society Gujarat Biotechnology Research Centre (GBRC) under the aegis of Department of Science and Technology (DST) to accelerate the research in biotechnology of state priority. The focus of GBRC is to conduct innovative research leading to Product/Process/Prototype development with applications in healthcare, agriculture, environment and marine, etc.

As a mandate of the State Government, GBRC declared as a state-of-art shared laboratory facility by extending its infrastructure to outside Organization/Institutions/Industries/students for their research purposes to give maximum benefit and usage of available research infrastructure.

In view of the above, GBRC is declared and made open as shared laboratory for its intended stakeholders since November, 2018 and accordingly updated guidelines are declared for the best practices on usage of shared lab infrastructure of GBRC.

The objective of these guidelines is to follow the best practices on usage of shared lab infrastructure of GBRC

1. The facilities will be provided to the researchers working in the Colleges/Universities/Institutions/Industries/Gujarat government supported startups and incubatees/any stakeholder based on online application and approval from GBRC.



2. The prospective user will need to fill the form in the approved prescribed format of GBRC and submit in minimum 7 working days prior to use the facility for availability of the desired instruments and on-line scheduling as well. Pre-booking cannot be more than 30 days in any case. In case there is no response from GBRC within 7 working days, permission shall be considered as granted.
3. After duly approval of the request form by the competent authority, user need to submit the Demand Draft or copy of online transfer receipt of the service charges before availing the respective instrument. The details of the charges for using the shared laboratory facility with and without consumables are available as Annexure I.
4. Payment of fee should be in advance. In case, the fee have been paid but the instruments have not been used, user shall be eligible for a refund upon request.
5. Mode of payment may be through Demand draft or through SBI collect or online RTGS /IMPS to GBRC bank Account:

Bank Details:

Account Holder Name: Gujarat Biotechnology Research Centre

Bank name: State Bank of India

Account No: 39217016235

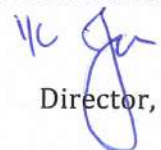
IFSC Code: SBIN0060228; **MICR:** 380002128

6. On approval from GBRC, the researcher may use the facilities for their research and analysis purpose with a maximum of 15 days in a quarter per project. In any case, for using the facility more than 15 days, permission is required from Secretary, DST.
7. The shared facility will be used during office hours between 10AM to 6PM only. In case of any ongoing in-house research and experimental work being conducted at GBRC provision will be made to utilize the facility before 10 AM and after 6 PM under supervision of designated employee by Director, GBRC. Facility wise responsibility will be assigned to the employee for smooth functioning of the Shared Laboratory. (Annexure-III)
8. Major molecular and analytical platforms/instruments can be used against payment of fees as decided by the GBRC from time to time. Users should have necessary chemicals/consumables for undertaking sample analysis with respect to the specific instrument as provided in the website along with the form. GBRC may facilitate purchase of such chemicals/consumables from its empaneled agencies.
9. User should clearly mention about specific biohazardous chemicals, consumables or materials in the request form. Permission from technical staff/scientist is required before



bringing any specific biohazardous chemicals, consumables or materials into the shared laboratory facilities that are not common stock items for compatibility and suitability for use in the labs/equipment.

10. Researchers need to use the major molecular and analytical Instruments in consultations and supervision of trained Technical and Scientific staff of GBRC to avoid machine errors and maintenance. In-charge of the specific facilities of GBRC staff will not be involved in designing research methodology, analysis and interpretation.
11. GBRC staff will not claim any co-authorship in form of publications/reports/IP generated by using shared facility of GBRC. However, GBRC shall be acknowledged in all the publications and any communications made by the user as "Gujarat Biotechnology Research Centre, Department of Science and Technology, Government of Gujarat".
12. Projects involving radioactive materials and explosive compounds will not be accepted for research and analysis in the shared facility of GBRC.
13. The analytical and molecular data / spectra will only be used for research / development purposes. These cannot be used for providing certificates in legal disputes.
14. GBRC will not provide and be responsible for the accommodation to the users of shared facility. During the use of shared facility, GBRC will not take any responsibilities or users will not have right for any claim if any accident or incidences happening to the users in the laboratories.
15. The shared lab user will have to follow safety, security, Good Laboratory Practices (GLP) and regulatory guidelines as developed by GBRC.
16. GBRC will not be held responsible in case of any technical failure and subsequently not be responsible for refund.
17. GBRC has right to cancel, postpone/re-schedule the requests if needed or in case of any unwarranted circumstances.
18. For students, 50% subsidy of the actual cost will be charged to use the facility. However, 1.5 times charge of the actual cost will be borne by the industry stakeholders.
19. GBRC will receive the feedback (Annexure II) from the user after the usage of respective facility. Feedback summary of shared lab usage shall be submitted to Chairman EC and Secretary, DST on quarterly basis with comments of GBRC on changes/modifications


Director, GBRC.

Annexure -I

Charges for availing facilities without consumables under GBRC

Sr. No.	Instrument/facility	Charges approved by Gujarat Biotechnology Research Centre, DST, GoG (in INR)		
		Students (PhD/Post Docs/SSIP)	Govt. Organization/Institutions/Academics/Govt. supported Incubatee	Industries
1	NGS (Ion S5 & Ion Genestudio S5+)	750/run	1500/run	2250/run
2	NGS Illumina MiSeq	1000/run	2000/run	3000/run
3	NovaSeq 6000	2000/run	4000/run	6000/run
4	Microarray (Affymetrix)	1000/run	2000/run	3000/run
5	Capillary ABI 3500XL Sequencer (24 capillary)	500/run	1000/run	1500/run
6	Bioanalyzer	100/run	150/run	200/run
7	FACS	400/run	800/run	1200/run
8	Speed Vac concentrator	500/day	1000/day	1500/day
9	Real time machine	500/run	1000/run	1500/run
10	Digital PCR	500/run	1000/run	1500/run
11	PCR + Gel Doc	100/run	150/run	200/run
12	Qubit	10/Booking	15/Booking	20/Booking
13	Qiaxpert	10/slide	15/slide	20/slide
14	Qiaxcel	100/run	150/run	200/run
15	Lyophilizer	500/day	1000/day	1500/day
16	HPLC-Preparative	2150/sample	4300/sample	6450/sample
17	HPLC-Analytical	325/sample	650/sample	975/sample
18	GC-MS	500/Injection up to 10 peaks (Rs. 50/- peak addition)	1000/Injection up to 10 peaks (Rs. 50/- peak addition)	1500/Injection up to 10 peaks (Rs. 50/- peak addition)
19	LC-MS	500/ sample	1000/Sample	1500/sample
20	SFE (SuperCritical Fluid Extraction)	380/sample	760/sample	1140/sample
21	Fermenter (5 L)	1000/ day	2000/day	3000/day
22	Param Shavak Server for Bioinformatics (with CLC Genomics and MATLAB)	10/hr	10/hr	15/hr
23	Genegun	200/sample	400/smaple	600/sample

Charges for availing facilities with consumables under GBRC.

Instrument/ Facility	Unit	Actual Cost	Category I (Discount 50%)	Category- II (Actual Cost)	Category III (1.5x more)
			Students (PhD/Post Docs/SSIP)	Govt. Organization/ Institutions /Academics/Incubatee	Industries
Library preparation ion torrent					
i) WGS Library Prep	Per sample	10,500.00	5,250.00	10,500.00	15,750.00
ii) Transcriptome Library		18,000.00	9,000.00	18,000.00	27,000.00
iii) AmpliSeq Library		6,400.00	3,200.00	6,400.00	9,600.00
iv) 16s Library Prep		800.00	400.00	800.00	1,200.00
Library preparation ion torrent					
i) WGS Library Prep	Per sample	4,500.00	2,250.00	4,500.00	6,750.00
ii) Transcriptome library		13,500.00	6,750.00	13,500.00	20,250.00
iii) AmpliSeq Library		7,000.00	3,500.00	7,000.00	10,500.00
iv) Illumina PCR Free DNA Library		5,300.00	2,650.00	5,300.00	7,950.00
v) WGS Library using Illumina® DNA Prep(M)		5,200.00	2,600.00	5,200.00	7,800.00
vi) 16s Library Prep illumina (V3-V4 region)		1,200.00	600.00	1,200.00	1,800.00
vii) 16s Library Prep-Fusion primers (V3-V4 region)		800.00	400.00	800.00	1,200.00
Sequencing cost, Ion Torrent					
i) Ion Chef + Sequencing with 520 chip	Per run	1,00,666.00	50,333.00	1,00,666.00	1,50,999.00
ii) Ion Chef + Sequencing with 530 chip		1,16,271.00	58,135.50	1,16,271.00	1,74,406.50
iii) Ion Chef + Sequencing with 540 chip		1,25,073.00	62,536.50	1,25,073.00	1,87,609.50
iv) OT2 + Sequencing with 520 chip		95,770.00	47,885.00	95,770.00	1,43,655.00
v) OT2 + Sequencing with 530 chip		1,11,375.00	55,687.50	1,11,375.00	1,67,062.50
vi) OT2 + Sequencing with 540 chip		1,27,475.00	63,737.50	1,27,475.00	1,91,212.50
Sequencing cost, Illumina					
i) MiSeq Reagent Nano Kit V2 (300 cycle)	Per run	32,200.00	16,100.00	32,200.00	48,300.00
ii) MiSeq Reagent Nano Kit V2 (500 cycle)		38,000.00	19,000.00	38,000.00	57,000.00
iii) MiSeq Reagent Micro Kit V2 (300 cycle)		47,000.00	23,500.00	47,000.00	70,500.00
iv) MiSeq Reagent Kit V3 (150 cycle)		93,600.00	46,800.00	93,600.00	1,40,400.00
v) MiSeq Reagent Kit V2 (300 cycle)		1,09,300.00	54,650.00	1,09,300.00	1,63,950.00
vi) MiSeq Reagent Kit V2 (500 cycle)		1,20,600.00	60,300.00	1,20,600.00	1,80,900.00
vii) MiSeq Reagent Kit V3 (600 cycle)		1,56,000.00	78,000.00	1,56,000.00	2,34,000.00

viii)	NovaSeq 6000 SP Reagent Kit v1.5 (100 cycles)	Per run	2,17,600.00	1,08,800.00	2,17,600.00	3,26,400.00
ix)	NovaSeq 6000 SP v1.5 Reagent Kit (200 cycles)		2,83,650.00	1,41,825.00	2,83,650.00	4,25,475.00
x)	NovaSeq 6000 SP Reagent Kit v1.5 (300 cycles)		3,09,100.00	1,54,550.00	3,09,100.00	4,63,650.00
xi)	NovaSeq 6000 SP Reagent Kit v1.5 (500 cycles)		4,18,250.00	2,09,125.00	4,18,250.00	6,27,375.00
xii)	NovaSeq 6000 S1 Reagent Kit v1.5 (100 cycles)		3,34,550.00	1,67,275.00	3,34,550.00	5,01,825.00
xiii)	NovaSeq 6000 S1 Reagent Kit v1.5 (200 cycles)		4,97,250.00	2,48,625.00	4,97,250.00	7,45,875.00
xiv)	NovaSeq 6000 S1 Reagent Kit v1.5 (300 cycles)		5,37,950.00	2,68,975.00	5,37,950.00	8,06,925.00
xv)	Nova Seq 6000 s2 reagent kit v 1.5 (100 cycles)		7,41,300.00	3,70,650.00	7,41,300.00	11,11,950.00
xvi)	NovaSeq 6000 S2 Reagent Kit v1.5 (200 cycles)		9,19,300.00	4,59,650.00	9,19,300.00	13,78,950.00
xvii)	NovaSeq 6000 S2 Reagent Kit v1.5 (300 cycles)		9,80,350.00	4,90,175.00	9,80,350.00	14,70,525.00
xviii)	NovaSeq 6000 S4 Reagent Kit v1.5 (35 cycles)		10,71,900.00	5,35,950.00	10,71,900.00	16,07,850.00
xix)	NovaSeq 6000 S4 Reagent Kit v1.5 (200 cycles)		13,18,500.00	6,59,250.00	13,18,500.00	19,77,750.00
xx)	NovaSeq 6000 S4 Reagent Kit v1.5 (300 cycles)		14,68,500.00	7,34,250.00	14,68,500.00	22,02,750.00
Capillary Sequencing						
i)	Capillary Sequencing 1-24 sample	Per run	19,500.00	9,750.00	19,500.00	29,250.00
ii)	Capillary Sequencing 25-48 sample		37,800.00	18,900.00	37,800.00	56,700.00
iii)	Capillary Sequencing 49-72 sample		56,200.00	28,100.00	56,200.00	84,300.00
iv)	Capillary Sequencing 73-96 sample		74,600.00	37,300.00	74,600.00	1,11,900.00
Bioanalyzer						
i)	HS DNA Assay Kit	per chip(11 sample and ladder)	3,800.00	1,900.00	3,800.00	5,700.00
ii)	RNA 6000 Nano Assay Kit	per chip(12 sample and ladder)	2,200.00	1,100.00	2,200.00	3,300.00
iii)	Small RNA Kit	per chip(11 sample and ladder)	3,200.00	1,600.00	3,200.00	4,800.00
FACS						
i)	Sorting Beads	Per day	1,000.00	500.00	1,000.00	1,500.00
ii)	Analysis Charges	Per hour	600.00	300.00	600.00	900.00

Real time machine					
i) Sybr Green (Two step assay)	Per sample	210.00	105.00	210.00	315.00
ii) Sybr Green (One step assay)		430.00	215.00	430.00	645.00
iii) Taqman (Without Probe)		250.00	125.00	250.00	375.00
Digital PCR					
i) EvaGreen without primers (1-24 sample)	Per plate (26K partition)	4,700.00	2,350.00	4,700.00	7,050.00
ii) EvaGreen without primers (1-96 sample)	Per plate (8.5K partition)	9,050.00	4,525.00	9,050.00	13,575.00
iii) Taqman Without primer & Probe (1-24 samples)	Per plate (26K partition)	5,700.00	2,850.00	5,700.00	8,550.00
iv) Taqman Without primer & Probe (1-96 samples)	Per plate (8.5K partition)	10,000.00	5,000.00	10,000.00	15,000.00
v) One step viral Taqman Without primer & Probe (1-24 samples)	Per plate (26K partition)	11,200.00	5,600.00	11,200.00	16,800.00
vi) One step viral Taqman Without primer & Probe (1-96 samples)	Per plate (8.5K partition)	15,500.00	7,750.00	15,500.00	23,250.00
vii) EvaGreen without primers (1-24 sample)	Per plate (8.5K partition)	2,300.00	1,150.00	2,300.00	3,450.00
viii) Taqman Without primer & Probe (1-24 sample)	Per plate (8.5K partition)	2,500.00	1,250.00	2,500.00	3,750.00
ix) One step viral Taqman Without primer & Probe (1-24 samples)	Per plate (8.5K partition)	3,900.00	1,950.00	3,900.00	5,850.00
PCR + Gel Doc					
i) PCR with Gel (Emrald Green)	Per sample	150.00	75.00	150.00	225.00
Qubit					
i) Qubit BR dsDNA	Per sample	80.00	40.00	80.00	120.00
ii) Qubit HS dsDNA		80.00	40.00	80.00	120.00
iii) Qubit ssDNA		110.00	55.00	110.00	165.00
iv) Qubit HS RNA		80.00	40.00	80.00	120.00
v) Qubit HS miRNA		80.00	40.00	80.00	120.00
Qiaxpert					
i) Qiaxpert RNA/DNA QC	Per sample	350.00	175.00	350.00	525.00
Qiaxcel					
i) QIAxcel HS DNA	per injection (12 sample per injection)	900.00	450.00	900.00	1,350.00
ii) QIAxcel DNA Screening		550.00	275.00	550.00	825.00
iii) QIAxcel DNA Fast Analysis Kit		500.00	250.00	500.00	750.00
iv) QIAxcel RNA QC		1,000.00	500.00	1,000.00	1,500.00
Genegun					
i) Plant Transformation	Per sample	1,800.00	900.00	1,800.00	2,700.00

Annexure – II

Feedback Form

Name: _____

Mobile: _____

Email: _____

Organization: _____

Instrument Used: _____

Feedback:

Date

Signature

Annexure-III

Sr. No.	Instrument/facilities	Contact Person Details
1	NGS (Ion S5 & Ion Genestudio S5+)	Dr. Ramesh Pandit Email: scib3-gbrc@gujarat.gov.in; scib3@gbrc.res.in Mobile: 9727340079
2	NGS Illumina MiSeq	Dr. Ramesh Pandit Email: scib3-gbrc@gujarat.gov.in; scib3@gbrc.res.in Mobile: 9727340079
3	NovaSeq 6000	Dr. Ramesh Pandit Email: scib3-gbrc@gujarat.gov.in; scib3@gbrc.res.in Mobile: 9727340079
4	Capillary ABI 3500XL Sequencer (24 capillary)	Dr. Sonal Sharma Email: scib5-gbrc@gujarat.gov.in; scib5@gbrc.res.in Mobile: 9909002733
5	Microarray (Affymetrix)	Dr. Sonal Sharma Email: scib5-gbrc@gujarat.gov.in; scib5@gbrc.res.in Mobile: 9909002733
6	Qubit	Dr. Sonal Sharma Email: scib5-gbrc@gujarat.gov.in; scib5@gbrc.res.in Mobile: 9909002733
7	Bioanalyzer	Dr. Sonal Sharma Email: scib5-gbrc@gujarat.gov.in; scib5@gbrc.res.in Mobile: 9909002733
8	Qiaxcel	Dr. Apurvasinh Puvar. Email: scib7-gbrc@gujarat.gov.in; scib7@gbrc.res.in Mobile: 9725651284
9	Qiexpert	Dr. Apurvasinh Puvar. Email: scib7-gbrc@gujarat.gov.in; scib7@gbrc.res.in Mobile: 9725651284
10	Digital PCR	Dr. Bhoomika Prajapati Email: scib1-gbrc@gujarat.gov.in; scib1@gbrc.res.in Mobile: 9737895432
11	Real time machine	Dr. Bhoomika Prajapati Email: scib1-gbrc@gujarat.gov.in; scib1@gbrc.res.in Mobile: 9737895432
12	PCR + Gel Doc	Dr. Bhoomika Prajapati Email: scib1-gbrc@gujarat.gov.in; scib1@gbrc.res.in Mobile: 9737895432
13	FACS	Dr. Dhvani Jhala Email: scib2-gbrc@gujarat.gov.in; scib2@gbrc.res.in Mobile: 98795 79019
14	Fermenter (5 L)	Dr. Satyamitra Shekh Email: scib4-gbrc@gujarat.gov.in; scib4@gbrc.res.in Mobile: 7990789720

Sr. No.	Instrument/facilities	Contact Person Details
15	Lyophilizer	Dr. Satyamitra Shekh Email: scib4-gbrc@gujarat.gov.in; scib4@gbrc.res.in Mobile: 7990789720
16	GC-MS	Dr. Ishan Raval Email: scib8-gbrc@gujarat.gov.in; scib8@gbrc.res.in Mobile: 9428468371
17	HPLC	Dr. Ishan Raval Email: scib8-gbrc@gujarat.gov.in; scib8@gbrc.res.in Mobile: 9428468371
18	LC-MS/MS Q-TOF	Dr. Haidarabbas Masi Email: scib9-gbrc@gujarat.gov.in; scib9@gbrc.res.in Mobile: 9426820429
19	Param Shavak Server for Bioinformatics (with CLC Genomics and Shrodinger)	Dr. Apurvasinh Puvar. Email: scib7-gbrc@gujarat.gov.in; scib7@gbrc.res.in Mobile: 9725651284
20	Genegun	Dr. Fenilkumar Patel Email: scib6-gbrc@gujarat.gov.in; scib6@gbrc.res.in Mobile: 9725195998
21	SFE (SuperCritical Fluid Extraction)	Dr. Darshan Dharajiya Email: scib10-gbrc@gujarat.gov.in; scib10@gbrc.res.in Mobile: 8849488562
22	Speed Vac concentrator	Dr. Satyamitra Shekh Email: scib4-gbrc@gujarat.gov.in; scib4@gbrc.res.in Mobile: 7990789720
General		
1	Help Desk (Single point of contact)	Dr. Apurvasinh Puvar(M: 9725651284) Mr. Bhadreshsinh Gohil(M: 9725545456) Email: slb@gbrc.res.in; info-gbrc@gujarat.gov.in
2	Accounts matter	Mr. Dinkar Patel, Account Officer (M: 8980117014) Mr. Atul Makwana, Accountant (M: 8866040277)