



**Maratha Mandal's**  
Nathajirao G Halgekar Institute of Dental Sciences & Research Centre,  
R S No. 47A/2, Near KSRP Ground, Bauxite Road, Belagavi – 590 010  
Karnataka, India  
Phone: 0831-2477682 Fax: 0831-2479323  
Email: mmnghids@gmail.com Website: www.mmdc.edu.in

## INDEX

### 7.3.1

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**Dr. Ramakant Nayak**  
Principal  
M.M's. N.G. Halgekar Institute of Dental Sciences  
& Research Centre, Belagavi-590010.



**Maratha Mandal's**  
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## **Institutional Distinctiveness**

### **Central Research Laboratory**

Our Institution is credited with establishing facilities for research in **Oral Microbiology** for the first time in a Dental Institute in the entire country. Central Research Laboratory, popularly known as CRL was established in the year 2004 in the premises of our Institute. A unique feature of the laboratory is that it offers infrastructure and technical expertise in the field of life sciences to students and faculty from Dentistry, Medicine, Pharmacy, and Ayurveda to perform their research activities. The laboratory is spread in a space of around 10,500 sq ft with ultra modern and state of the art facilities. The major subdivisions at CRL are Microbiology, Molecular Biology, Immunology and Tissue culture sections.

The CRL has 23 MOUs with various Research Centers like Regional Medical Research Centre (RMRC) of Indian Council of Medical Research (ICMR), Dental Colleges within and outside the state of Karnataka, Hospitals and various industries for carrying out research in the field of Oral Microbiology (Molecular Biology, Immunology and Genetics). The centre has also been working on several funded projects from VGST Karnataka, ICMR India, and RGUHS Bengaluru. The total amount of grants received so far accounts to Rs. 1.1 Crore.

The laboratory has been accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) to carry out COVID-19 RT-PCR testing by True-Nat in February 2021. The '**Covid Testing Center**' was a silver lining for local community amidst the dark hours of Pandemic.

Our CRL is also a recipient of '**Seeding Labs 2018 Instrumental Access Program**'. We were selected from a pool of 51 applications received from 22 countries through a rigorous selection process. Instrumental Access makes high-quality laboratory equipment and supplies available to university departments and research institutes in developing countries. It is the flagship program of Seeding Labs, a US-based nonprofit organization, working to help scientists make a discovery that improves life.

  
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In the last sixteen years more than 2100 students have utilized the facility of CRL and many of them have won '*Best Paper*' awards at *National* and *International* venues. In recognition of our contribution for promoting oral microbiology in India, the centre has been awarded the status of "*Nodal Reference Centre For Research Work In Oral Microbiology*" in the year 2009 by *Rajiv Gandhi University of Health Sciences, (RGUHS)* Bengaluru, Karnataka. The Institution is also a recognized *PhD centre* by *RGUHS*.

A major focus of the research at CRL in the immediate future is to establish stem cell technology. Efforts are underway to isolate stem cells from various sources of oral cavity. These stem cells will be allowed to differentiate into different lineages and work would be taken up for dental tissue regeneration with collaboration of different Institutions. All isolated stem cells will be stored for future studies.

Over the last 15 years of its establishment, it would not be an exaggeration to implore that the CRL has been instrumental in revolutionizing research in the field of oral microbiology in the region of North Karnataka and beyond.

  
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### INAGURATION OF CRL



### CENTRAL RESEARCH LABORATORY

#### ENTRANCE & RECEPTION



#### LABORATORY PHOTO GRAPHS



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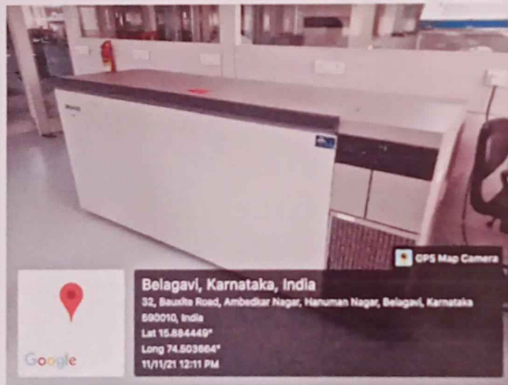
**Laminar Flow**



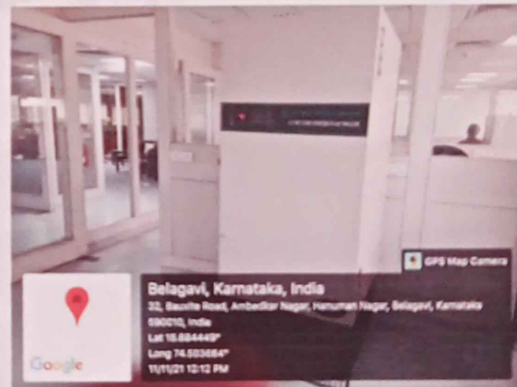
**Anaerobic Chamber**



**Refrigerator for storing sample**



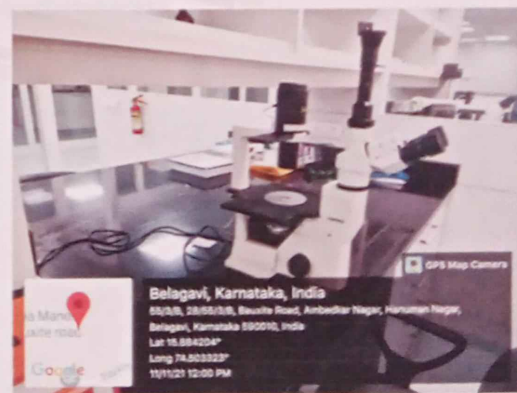
**-80 degree Refrigerator**

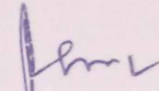


**Research Microscope**



**Confocal Microscope**



  
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## Maratha Mandal's

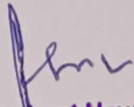
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### Animal House



  
**Dr. Ramakant Nayak**  
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ರಾಜೀವ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕರ್ನಾಟಕ

4ನೇ ಟ ಬ್ಲಾಕ್, ಜಯನಗರ, ಬೆಂಗಳೂರು - 560 041.

RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, KARNATAKA

4th 'T' Block, Jayanagar, Bangalore - 560 041.

Phone : 080-26961934, 080-26961935 Fax : 080-26961929

Website : www.rguhs.ac.in, E-mail : rguhsregistrar@gmail.com

AUTH/Referral Centre/463/2009-10

Ref : .....

11/01/2010

Date : .....

### NOTIFICATION

Sub: Recognition of Department of Molecular Biology and Immunology of Maratha Mandal's N.G.Halgekar Institute of Dental Sciences and Research Centre as a Referral Centre for Oral Microbiology.

- Ref: 1) Recommendations of Academic Council in its meeting held on 3<sup>rd</sup> and 4<sup>th</sup> December 2009.
- 2) Proceeding of 86<sup>th</sup> Syndicate Meeting held on 8<sup>th</sup> January 2010.

-\*\*\*\*-

In exercise of the powers conferred under section 35 of RGUHS Act, 1994 and based on the recommendations of the Academic Council in its meeting held on 3<sup>rd</sup> and 4<sup>th</sup> December 2009. The Syndicate in its 86<sup>th</sup> Meeting held on 08/01/2010 is pleased to grant recognition to the department of Molecular Biology and Immunology of Maratha Mandal's N.G.Halgekar Institute of Dental Sciences and Research Centre as a Referral Centre for Oral Microbiology under Rajiv Gandhi University of Health Sciences.

This Notification shall come into effect with immediate effect.

By Order,

(Dr. VASANTHA KUMAR.S)

REGISTRAR

To

The Principal, Maratha Mandal's N.G.Halgekar Institute of Dental Sciences and Research Centre, Belgaum.

Contd....2

M.M's.N.G. Halgekar Institute of Dental Sciences, & Research Centre, Belgaum

Inward No. 145  
Date 12/05/2010

Dr. Ramakant Nayak  
Prindipal

M.M's. N.G. Halgekar Institute of Dental Sciences & Research Centre, Belagavi-590010.



*is pleased to present the*

**Department of Oral Pathology and Microbiology  
Maratha Mandal's NGH Institute of Dental Sciences and  
Research Centre**

*represented by*

**Dr. Kishore Bhat**

*with the award of*

**Instrumental Access 2018-19**

*on this 21<sup>st</sup> day of March, 2018.*

Dr. Nina S. Dudnik  
Chief Executive Officer  
Seeding Labs



Dr. Melissa P. Wu  
Senior Vice President for Operations  
Seeding Labs

**Dr. Ramakant Nayak**  
Principal

M.M.'s. N.G. Halgekar Institute of Dental Sciences  
& Research Centre, Belagavi-590010.



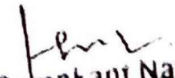
# Maratha Mandal N H Halgekar Institute of Dental Science & Research Centre Belgaum

## Expenses of Central Research Laboratory Project

Sl. No	Name of the Supplier	Scope of Work	Estimated Amount	Amount Paid Details			Total Amt. Paid
				Cheque No.	Date	Amount	
1	Swastik Plywoods	Plywood Material for Interior	2043600.00				
			1305000.00				
	<b>Total</b>		<b>3348600.00</b>				
				125298	14/11/2016	9,33,788	
				129851	01/12/2016	4,92,517	
				129917	29/12/2016	4,55,931	
				129918	29/12/2016	28,052	
				136126	27/01/2017	9,31,523	
				136202	27/02/2017	7,03,002	
				141413	27/03/2017	6,90,755	
				141467	12/04/2017	10,14,494	
				143692	10/05/2017	6,21,019	
				144997	13/06/2017	1,64,195	60,35,276.00
2	Bhati Traders	Electrial Material	1079630.00	136128	28/01/2017	13,491	
				141439	03/04/2017	4,80,679	
				144951	03/06/2017	4,00,000	
				147466	22/06/2017	66,460	10,79,630.00
3	Bhati Lighting Studio	LED lights		147465	22/06/2017		78,540.00
4	Empire Cooling Solutions Pvt Ltd	Central A C System	5610500.00				
				635468	09/09/2016	9,80,000	
				60225	01/12/2016	14,97,680	
				130865	02/01/2017	10,33,888	
				139526	17/03/2017	2,63,161	
				141449	11/04/2017	7,16,617	
				144980	19/06/2017	5,61,419	
				152433	10-12-2017	4,00,000	
				158371	01/12/2018	1,57,735	56,10,500.00
5	Viva Bela Interior Solutions	False ceiling	1344000.00				
			1167175.00				
			206680.00	119656	28/09/2016	10,75,200	
			2717855.00	130862	02/01/2017	9,00,000	
				147029	13/06/2017	5,94,783	25,69,983.00
6	Power Ware house	UPS Battery	764875.00	129855	24/01/2017	3,82,437	
				147037	13/06/2017	3,82,438	7,64,875.00
7	Credencels Computing Pvt. Ltd	CCTV & Intercom	343057.00	129856	03/12/2016	1,00,000	
				147036	21/06/2017	2,43,057	
							3,43,057.00
8	Mr. Sawal Sutar	Carpentry Labour Payment	1811617.00	129846	01/12/2016	3,00,000	
				130504	27/01/2017	3,00,000	
				141411	03/04/2017	5,00,000	
				147029	13/06/2017	7,11,617	18,11,617.00

**Dr. Ramakant Nayak**  
Principal

9	Sakaria Bandhu	Plumbing Material		136127	28/01/2017		18,805.00
10	Vernekar Ceramic	Tiles		136129	28/01/2017		49,399.00
11	Sidhakala Traders	Gas pipellne	304616.00	136133	28/01/2017	50,000	
				136195	15/02/2016	1,00,000	
				144905	22/05/2017	1,00,000	
				150322	26/07/2017	70,000	3,20,000.00
12	Tirupati Balaji Marbel	Granite	364797.00	136201	27/02/2017	3,64,797	
			9752.00	141438	03/04/2017	9,752	3,74,549.00
13	Bhargav Ceramic	Tiles		136203	27/02/2017		72,776.00
14	Mr. Jafar S(Plumber)	Plumber work	36000.00	136205	27/02/2017	25,000	
				143676	05/05/2017	8,750	33,750.00
15	Chirangivi Verma	Flowring Work	175000.00	139527	17/03/2017	40,000	
				141404	03/04/2017	1,00,000	
				144942	20/05/2017	34,650	1,74,650.00
16	Devendra Yadav	Wood Polishing	198595.00	141408	03/04/2017	1,00,000	
				144999	13/06/2017	2,58,870	3,58,870.00
17	Unique Controls	Electric Panel		141417	03/04/2017	45,000	
				141492	25/04/2017	45,000	90,000.00
18	Soundarya Paints	Painting Material		141457	12/04/2017		19,616.00
19	Sakaria Bandhu	Plumbing Material		141462	12/04/2017		14,970.00
20	Heda Ceramic	Lab sink		141468	12/04/2017		30,600.00
21	Surya Glass	Supply of Glass	578022.00	516519	03/05/2017	3,00,000	
				144911	22/05/2017	1,00,000	
				144998	13/06/2017	1,36,314	
				150315	26/07/2017	27,838	5,64,152.00
21	Maruti Winders	Electric Panel Work	45900.00	143691	05/05/2017		45,895.00
22	Red Bubbles	Furnitures	631253.00	144982	15/06/2017	6,31,253	6,31,253.00
23	Transportaion Charges			NEFT	17/06/2017	18,500	18,500.00
24	IndSurgical INC			147047	21/06/2017	7,359	7,359.00
25	Sandeep Magdum	Structral Glazing		139540	17/03/2017		2,00,000.00
26	Concrete solution	Membrane Water Proffinf work	1315000.00	139545	17/03/2017	3,28,750	
				143694	10/05/2017	3,28,750	
				150313	26/07/2017	12,21,252	
			TDS			38,342	19,17,094.00
27	Naveen Electrical (Panel Work)	Electric Panel Work	1262911.00	139548	17/03/2017	6,31,456	
				143684	05/05/2017	5,14,613	
				147028	13/06/2017	1,27,341	12,73,410.00
				139545	17/03/2017		3,78,900.00
				139	17/03/2017		22,670.00
28	Kiran Dhamnekar	Civil Work		141440	12/04/2017		60,000.00
29	Magdum (Scaffolding)	Scaffolding					35,000.00
30	Eagal Electronics	T V		149052	15/07/2017		1,04,000.00
31	Nisarg Sign & Display	Sign Board		149072	19/07/2017		31,836.00
32	Raikar Associates	Architect Fees					14,83,500.00
							2,66,25,032.00

  
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**Maratha Mandal'S NGH Institute of Dental Sciences & Reserch Centre, Belgaum**

**List of Instruments available at MMCRL**

Sr. No.	Instruments	Amount	Company
1	I Mark Microplate Absorbance Reader	3,00,000.00	Dinesh Agencies
2	DGGE Equipment	1,75,000.00	Biobee Tech, Bangalore
3	Hi-Loop Electric Sterilliser	83,757.00	Jay Distributors
4	Hot Air Oven	58,056.00	Kim Microsystems
5	LISAPUS Elisa Reader	1,10,000.00	Aspen Disgnostics Pvt. Ltd.
6	Rotary Vaccum Flash Evaporator	99,769.00	Vijay Trading Corporation
7	UV Cross Linker	1,24,549.00	Genetix Biotech Asia Pvt. Ltd.
8	Analtical Balance	1,49,999.00	First Source
9	Cyberscan PH Meter	27,470.00	Sri Basaveshwara Enterprises
10	Liquid Nitrogen Cryocan -J12	80,004.00	Sri Basaveshwara Enterprises
11	Magnetic Stirrer with Heating	1,85,998.00	Sri Basaveshwara Enterprises
12	Tissue Homogenizer	17,700.00	Kruger & Brent Chemicals
13	Furniture-Animal House	1,01,563.00	Vishnu Traders
14	UV-VIS Spectrophotometer	3,42,200.00	Lab India Analytical Instruments Pvt. Ltd.
15	Olympus Trinocular Microscope	63,237.85	Vijay Trading Corporation
16	Magcam Digital Camera with Adapter	75,779.15	Vijay Trading Corporation
17	Step Down Converter	1,33,000.00	Aditya Industrial Controls
18	Vaccum Pump Set	55,240.00	Shri Venkatesh Scientific System
19	HPLC System	23,01,000.00	Spincotech Stsyems LLP
20	Water purification system (Millipore)	3,40,921.00	Merck Life Sciences Pvt. Ltd.
21	Autoclave	2,25,779.00	JJ Biotek, Bangalore
22	Table Top Freeze Dryer	99,997.00	Lab India Analytical Instruments Pvt. Ltd.
23	Table Top Freeze Dryer Accessories	2,25,000.00	Laxmi Trading Corporation
24	Agarose gel electrophoresis set.	99,997.00	Biobee Tech, Bangalore
25	Anaerobic culture jars & accessories	8,95,755.00	Himedia
26	Bacteriological incubators	1,01,252.00	Sri Basaveshwara Enterprises
27	Electronic weighing Balance	31,000.00	Varun Scales, Bangalore
28	Bio photometer		Eppendorf India Pvt. Ltd
29	CO2 incubator for tissue culture.	6,45,000.00	Eppendorf India Pvt. Ltd
30	Deep Freeze (-80oC)		Eppendorf India Pvt. Ltd
31	Deep freeze (-20o C)	63,500.00	Datta Refrigeration Services
32	Digital control centrifuges.	12,542.00	Biobee Tech, Bangalore
33	Electrophoresis power packs.	28,125.00	JH Bio Innovations Pvt. Ltd. Bangalore
34	ELISA plate readers	3,00,000.00	Dinesh Agencies
35	Fluorescent Microscope, Research Microscopes with photographic attachment	1,91,520.00	Lab Systems, Bangalore
36	Gel Documentation system	52,006.00	Biobee Tech, Bangalore
37	Inverted Microscope	1,84,080.00	Lowrence, Bangalore
38	Laminar Air Flow	76,715.00	Symiont Technologies
39	Micro centrifuges.		Biobee Tech, Bangalore
40	PCR Thermal Cycler.	3,36,000.00	Applied Biosystems
41	pH meter	45,686.00	Pranav Labs, Bangalore
42	Sonicator	2,33,919.00	Symbiogen Biotechnologies Pvt. Ltd. Chennai
43	Polyacrylamide gel electrophoresis set.	28,072.00	Techno Source, Mumbai
44	Real Time PCR Thermal Cycler	29,19,000.00	Eppendorf India Pvt. Ltd
45	Refrigerated Centrifuge		Eppendorf India Pvt. Ltd
46	Submarine Gel electrophoresis set.	15,461.00	Techno Source, Mumbai
47	UV Transilluminator.	50,625.00	JH Bio Innovations Pvt. Ltd. Bangalore
48	Western blotting equipment.		Biobee Tech, Bangalore
49	Wrist action flask shaker.		Biobee Tech, Bangalore
50	Freeze dryer (Lyophilizer)	8,95,755.00	Lab India Analytical Instruments Pvt. Ltd.
51	Bio Safety Cabinet.	1,38,000.00	Scientific Enterprises, Bengaluru
52	Anaerobic Chamber	3,20,000.00	Kim Microsystems
53	Dot Blot Hybridization	1,45,533.00	Pranava Lab Solution Pvt. Ltd. Bangalore
54	Denaturing Gradient Gel Electrophoresis (DGGE equipment)	1,75,000.00	Biobee Tech, Bangalore
55	Vortex mixer	6,423.00	Kruger & Brent, Belgaum
56	Dry bath incubator	43,365.00	JL Technologies, Secundrabad
57	As per List (Seeding Lab)	19,61,509.50	Seeding Lab, Boston
		<b>1,53,71,859.50</b>	

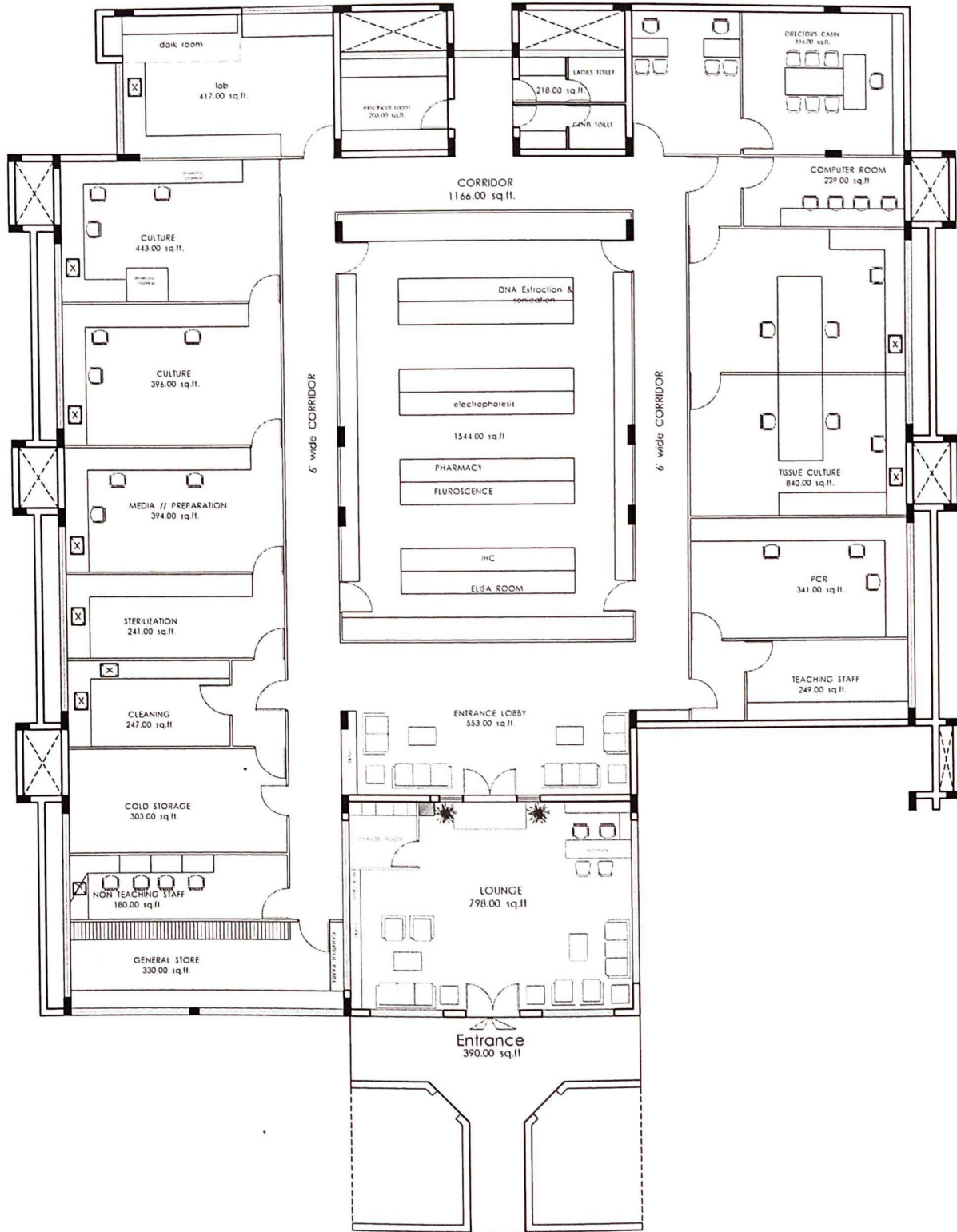
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Principal

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**List of Instruments available at Maratha Mandal's Covid-19 Lab**

Sr. No.	Instruments	Amount	Company
1	Bio Safety Cabinet Class II	2,41,900.00	Biobee Tech, Bangalore
2	Computer System	56,706.00	IT Source
3	Deep Freezer	32,500.00	Dattatray Padwalkar
4	Digital Autoclave	79,060.00	Vijay Trading Corporation
5	Kiosk Modular Covid	1,18,000.00	Vega Aviation Products Pvt. Ltd.
6	Trunat Machine	13,44,000.00	Molbio Diagnostics Pvt. Ltd.
7	Deep Freezer	31,000.00	Datta Refrigeration Service
		19,03,166.00	
		1,72,75,025.50	

  
**Dr. Ramakant Nayak**  
**Principall**  
N.G. Halgokar Institute of Dental Sciences  
& Research Centre, Belagavi-590010.



INTERIOR LAYOUT

AREA 1050000 sq.ft.

Central Research Laboratory of  
Maratha Mandal at MMDC, Belgaum

12/08/2017



RAIKAR & ASSOCIATES  
Architects, Engineers & Interior Designers  
Vastavya, 697/40 Hanamannavar Marg,  
Kuvempu Nagar,  
BELGAUM. Ph 0831- 2449997, 6516981

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Principal

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