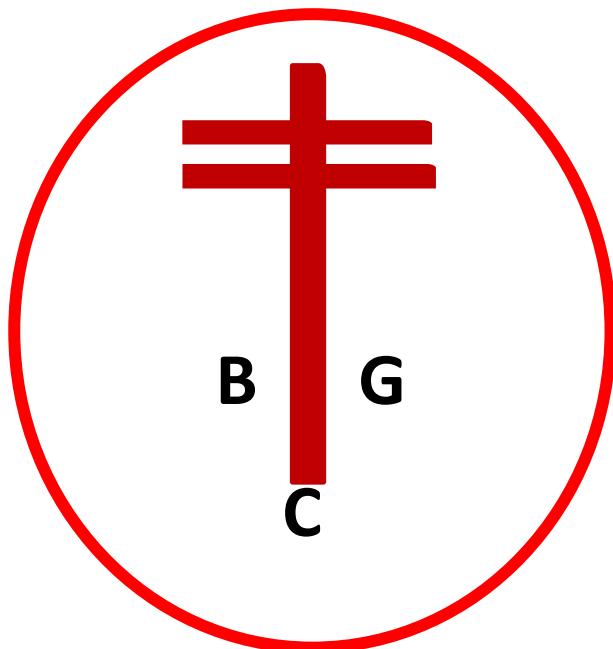




BCG Vaccine Laboratory

Guindy, Chennai.



Annual Report 2018 -2019

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Director's Message



Greetings from BCG Vaccine Laboratory, Chennai.

I assumed charge as Director of this laboratory of nation's pride on 4th August 2018. It gives me an immense pleasure in bringing out the Annual Report of BCGVL for the year 2018-19.

BCG Vaccine Laboratory, Chennai is a sub-ordinate office of the Directorate General of Health Services (DGHS) under the Ministry of Health and Family Welfare of the Government of India. It was established on 1st May, 1948, with the assistance of Staten's Serum Institute (SSI) Copenhagen, Denmark.

The mandates of this Laboratory are:

1. to manufacture and supply of freeze dried BCG Vaccine to Universal Immunization Programme (UIP) of the Government of India for the control of Childhood Tuberculosis.
2. to manufacture and supply of freeze dried BCG Therapeutic (40mg) all over the country for therapy of Urinary bladder cancer.

The BCG-DANISH-1331 seed strain, which is being used at BCGVL, was initially obtained from Staten's Serum Institute (SSI) Copenhagen, Denmark through World Health Organization (WHO) for production of liquid BCG Vaccine. Until the year 1973

liquid form of BCG vaccine was manufactured at BCGVL. Later this lab has switched over to freeze dried form in ampoules. Subsequently the production of BCG vaccine was changed from ampoules to vials as 10 doses/vial from 2000-2001 onwards. This Laboratory has also been involved in manufacturing of BCG Cancer Immuno-therapeutic (40 mg/ml) for use in Urinary bladder cancer therapy since 1993.

BCGVL, after attaining self-sufficiency has been successfully supplying BCG Vaccine to UIP, till 2007. But, due to non-compliance of current Good Manufacturing Practice (cGMP), the manufacturing licence of BCGVL along with other public sector vaccine manufacturing units was suspended in January, 2008.

Later, the suspension was revoked by Ministry's Order dated 26.02.2010 for resuming the manufacturing of BCG vaccine and the order also indicated that the unit shall be made current Good Manufacturing Practices (cGMP) compliant within three years, Subsequently the manufacturing activities was started at BCGVL in the existing premises and 61 batches comprising of 87.5 Lakh doses of BCG vaccine was supplied to UIP, from 2011 to 2015 after duly certified by Central Drug Testing Laboratory, Kasauli (CDL).

In November 2011, Standing Finance Committee approved for construction of new cGMP facility by M/s.HLL, the Project Management Consultant (PMC) and sanctioned Rs.64.73 crores towards project cost for the cGMP facility. In July 2012 the construction of new cGMP facility was started and the facility was handed over to BCGVL in March 2016. Subsequently BCGVL has received, the license to produce Trial batches of BCG vaccine in August 2016.Trial bulks were prepared in the new cGMP facility. After standardization, production of Consistency batches of BCG vaccine was initiated and completed in June 2018. The samples of the Consistency batches were submitted to CDL, Kasauli for certification. CDL certified the Consistency batches as standard.

Based on our application for grant of manufacture and sale license for commercial production, a joint Inspection was carried out by State Licencing Authority, National Regulatory Authority and expert from CDL, Kasauli in September 2018. The observations of joint inspection were received and the compliance report for the observation was submitted.

As part of grant of license, online application for market authorization through SUGAM Portal of DCGI was also completed. On receipt of manufacture and sale license the production of commercial batches will be initiated in due course.

BCGVL is also involved in the academic activities like In-plant training, course projects for college students.

Further in the reporting period we celebrated Hindi Diwas and Hindi Pakhwada in the month of September. Also we observed Vigilance awareness week in the month of October. BCGVL facilitated the visit of Dr. V. Venkatesh, Director

General of Health Services, in December. BCGVL also facilitated Central TB Division of Ministry of Health and Family Welfare to organise a two days expert committee meeting in the month of January 2019to assess the possibility of restarting the production of PPD at BCGVL for programmatic purpose.

I take this opportunity to acknowledge the co-operation, hard work and diligence of all the members of BCGVL family and to thank the Directorate General Health Services and Ministry of Health and Family Welfare for their continued support, guidance and encouragement.

BCGVL is now all set for the initiation of commercial production of BCG Vaccine on receipt of the licence for manufacturing and marketing BCG vaccine. I am certain that the team of officers and staff at BCG Vaccine Laboratory are committed and will live up to expectation of the nation in ensuring the supply of BCG vaccine in the days to come.

Dr.B.Sekar
Director,BCGVL

BCGVL Team 2018-19

	<p>Dr.H.G.Brahmne, M.D., (Microbiology) from 01.04.2018 to 27.07.2018</p>
	<p>Dr.B.Sekar, M.D., (Microbiology) from 04.08.2018 till 31.03.2019</p>

Chief Medical Officer (SAG)

Dr.HassanThuddathifanuge, M.B.,B.S.,



Staff Details

ADMINISTRATION

Sl.No	Name	Designation
1.	A.Krishna Kumar	Administrative Officer
2.	HariniAravindhan	Stenographer Grade-I
3.	V.Indra	Office Superintendent
4.	M.Jayasankar	Upper Division Clerk
5.	D.Joycemani	Upper Division Clerk
6.	T.Babu	Lower Division Clerk

ACCOUNTS

Sl.No	Name	Designation
1.	T.Vairavel	Upper Division Clerk
2.	R.Gopi	Lower Division Clerk
3.	C.Shanmugam	Lower Division Clerk
4.	G.Dhanapal	MTS (Office Peon)

WAREHOUSE

Sl.No	Name	Designation
1.	G.Vijay	Head Clerk
2.	M.K.Gurumurthy	Store Keeper
3.	E.Senthilkumar	MTS (Lab Peon)

QUALITY CONTROL SECTION

Sl.No	Name	Designation
1	SelviAnbudurai	Assistant Technical Officer
2.	A.Revathi	Technical Supervisor
3.	K.Raje	Technical Supervisor
4.	T.S.Karthigai	Scientific Assistant
5.	D.Hema	Laboratory Assistant
6.	C.K.Venkatesan	Laboratory Assistant
7.	V.Kathiravan	Laboratory Assistant
8.	R.Sampath	MTS (Lab Peon)
9.	A.Suriyakala	MTS (Lab Peon)
10.	J.Mahalakshmi	MTS (Lab Peon)

PRODUCTION

Sl.No	Name	Designation
1.	R.Jayalakshmi	Assistant Technical Officer
2.	A.Kalyani	Technical Supervisor
3.	K.Ekambaram	Technical Supervisor
4.	M.R.Jayanthy	Technical Supervisor
5.	M.Shanmugam	Technical Supervisor
6.	P.Sasikala	Technical Supervisor
7.	B.Anandhi	Scientific Assistant
8.	S.Rajalakshmi	Scientific Assistant
9.	MD.Ayoob	Scientific Assistant
10.	M.Pushparani	Scientific Assistant
11.	G.Ravishankar	Scientific Assistant
28.	P.Saravana Kumar	Senior Laboratory Assistant
20.	A.Sheshalakshmi	Senior Laboratory Assistant
21.	V.Balakrishnan	Senior Laboratory Assistant
12.	K.Gunasekaran	Senior Laboratory Assistant
13.	A.Titussengolraj	Laboratory Assistant
14.	V.NalinaJancy	Laboratory Assistant
15.	M.P.Natarajan	Laboratory Assistant
16.	A.Arulmadhan	Laboratory Assistant
17.	P.Chandrasekaran	Laboratory Assistant
18.	L.Chithra	Laboratory Assistant
22.	M.Amaithimalai	MTS (Laboratory Attendant)
23.	V.Kennedy	MTS (Lab Peon)
24.	R.Madhanagopal	MTS (Lab Peon)
25.	D.B.Sasekumar	MTS (Lab Peon)
26.	M.Elumalai	MTS (Lab Peon)
27.	V.Kannan	MTS (Lab Peon)

QUALITY ASSURANCE

Sl.No	Name	Designation
1.	S.Andrew	Junior Statistical Officer
2.	R.Balaje	Technical Supervisor
3.	M.G.Rajasekhar	Technical Supervisor
4.	S.Malathi	Laboratory Assistant
5.	S.Sudhendiradevi	Laboratory Assistant
6.	B.Vasanthy	Laboratory Assistant
7.	M.Krishnan	Laboratory Assistant
8.	M.Samykumar	MTS Lab Peon
9.	R.Panchavarnam	MTS Lab Peon

LABORATORY ANIMAL HOUSE

Sl.No	Name	Designation
1.	Dr.S.Anand	Veterinarian
2.	HariniPriyaadharshini	Scientific Assistant
3.	J.Ashok Kumar	Laboratory Assistant
4.	M.Madhavan	MTS(Laboratory Attendant)
5.	B.Kumar	MTS (Laboratory Attendant)
6.	K.Babu	MTS (Lab Peon)
7.	A.S.Khumar	MTS Animal Attendant
8.	Kumar Natwarsingh	MTS (Lab Peon)
9.	K.Selvaraghu	MTS (Lab Peon)
10.	T.VenkatesaLalBahadur	MTS (Lab Peon)
11.	J.Radha	MTS (Lab Peon)
12.	B.Jeyakumar	MTS

TRANSPORT AND MAINTENANCE

Sl.No	Name	Designation
1	R.Anandan	Electrical and Mechanical Supervisor
2	PadviShirishBapu	Technician
3	R.Narayanan	Technician
4	Jacob Richard	Technician
5	R.E.Rajendran	Technician
6	D.Selvam	Technician
7	V.PalaniVelu	Technician
8	S.Mohan	Mechanic
9	R.Sivakumar	Mechanic
10	J.Dhandapani	Mechanic
11	K.K.Joseph	Mechanic
12	K.R Azhagappan	Mechanic
13	L.Kathirvel	Mechanic
14	M.Suresh	Mechanic
15	J.Ciril raj	MTS Carpenter
16	G.Premkumar	Khalasi Work Shop
17	V.R.Jagadishsuri	Khalasi Work Shop
18	J.Gowthaman	Khalasi Work Shop
19	A.Murali	Khalasi Work Shop
20	L.Agasthiyar	Motor Car Driver
21	B.Sathyadoss	Motor Car Driver

MTS (GENERAL)

Sl.No	Name	Designation
1.	D.Udayakumar	MTS (Safaiwala)
2.	V.Nanthan	MTS (Safaiwala)
3.	M.Muniammal	MTS (Safaiwala)
4.	M.Rathi	MTS (Safaiwala)
5.	Jothimalligavathi	MTS (Safaiwala)
6.	K.Umarali	MTS (Safaiwala)

Committees

1. Departmental Promotion Committee for Group C Staff

1.	Director, BCG Vaccine laboratory (BCGVL), Chennai	Chairman
2.	Administrative Officer, BCG Vaccine Laboratory, Chennai.	Member
3.	Veterinarian, BCG Vaccine Laboratory, Chennai	Member
4.	Gazetted Officer from Central or State Government	Member

2. Departmental Promotion Committee for Group-B Officials

1.	Deputy Director General (Public Health)	Chairman
2	Director, BCG Vaccine Laboratory	Member
3	Director, DGHS	Member
4	Deputy Director, Administration	Member

3. Departmental Promotion Committee for Group-A Officials

1.	Chairman of Member of UPSC	Chairman
2.	Director, Administration and Vigilance	Member
3.	Assistant Director General (EPI)	Member
4.	Deputy Director, Administration	Member

4. Technical Committee

1.	Dr.HassanThuddathifanuge, CMO(SAG)	Chairman.
2.	Dr.S.Anand, Veterinarian	Member
3.	Smt.SelviAnbudurai, ATO	Member
4.	Smt.R.Jayalakshmi, ATO	Member
5.	Shri R.Anandan, EMS	Member
6.	Shri S.Andrew, JSO	Member
7.	Shri R.Balaje,T.S-Q.A	Member

5. Purchase Committee:

1.	Dr.HassanThuddathifanuge, CMO(SAG), BCGVL, Chennai.	Chairman
2.	Dr.S.Anand, Veterinarian, BCGVL, Chennai	Member
3.	Shri A.Krishna Kumar, Administrative Officer, BCGVL	Member
4.	Dr.Rajasekhar, Senior Medical Officer (Ayurveda), CGHS Wellness Centre, Guindy, Chennai.	Member
5.	Shri V.L.Ponmozhi, Technical Officer, Central Training Institute for Instructors, Guindy, Chennai.	Member
6.	Smt.V.Indra, Office Superintendent, BCGVL, Chennai.	Member Secretary

6. Hindi Rajbhasha Committee

1	Dr.S.Anand	Chairman
2	Shri Padvi Shirish Bapu	Member
3	Shri G.Ravishankar	Member
4	Shri Agasthiyar	Motor Driver

7. Preventive Vigilance Committee

1	Shri A.Krishna Kumar	Administrative Officer
2	Smt.Harini Aravindhan	Stenographer Grade I
3	Smt V.Indra	Office Superintendent
4	Shri.G.Vijay	Head Clerk
5	Shri M.Jayshankar	UDC

8. Condemnation Committee

1	Dr.S.Anand	Veterinarian	Chairman
2	Shri A.Krishna Kumar	Administrative Officer	Member
3	Shri R.Anandan	EMS	Member
4	Smt Selvi Anbudurai	ATO	Member
5	Shri R.Balaje	TS	Member
6	Shri M.K.Gurumurthy	Store Keeper	Member

Liaison Officer for SC/ST/OBC: Dr. Hassan Thuddathifanuge, CMO(SAG),BCGVL

Vigilance Officer for BCGVL: Dr.R.Kumaravel, CGHS CMO (NFSG), Besant Nagar

Central Public Information Officer: Dr. Hassan Thuddathifanuge, CMO (SAG), BCGVL

Appellate Authority: Dr.B.Sekar, Director, BCGVL

Budget Statement for the Financial Year 2018-19

Sl. No	Head	Budget Estimate 2018-19	Revised Estimate 2018-19	Final Estimate 2018-19	Total Expenditure Up to 31.03.2019
1.	Revenue	213,300,000	200,300,000	148,220,000	144,395,871
2.	Capital	10,000,000	10,000,000	-	-
	Total	223,300,000	210,300,000	148,220,000	144,395,871

Brief History of BCGVL

BCG Vaccine Laboratory is a sub-ordinate office of DGHS under Ministry of Health & Family Welfare, Government of India. BCGVL was established on 1st May, 1948 at Chennai with the assistance of Staten's Serum Institute through World Health Organization.

PIONEERS

1	Dr.Paul Lind	Statens Serum Institute Copenhagen, Denmark, Consultant
2	Dr.K.S.Ranganathan	Director
3	Shri A.V.Oommen	Assistant Bacteriologist
4	Shri Mohan Rao	Laboratory Assistant
5	Shri P.K.Mukundan	Laboratory Assistant
6	Shri A.Subramani	Laboratory Peon
7	Shri James Dorairaj	Laboratory Peon
8	Kum. Pramila	Lower Division Clerk

BCG vaccine Laboratory has manufactured and supplied several million doses of BCG vaccine to the Immunization program of India for more than six decades since 1948 .The strain used is *Mycobacterium.bovis* BCG Danish 1331, supplied by Staten Serum Institute, Denmark. Initially BCG vaccine was supplied as liquid vaccine and from 1973 it is being manufactured in freeze dried form increasing the shelf life from 7 days to 24 months.

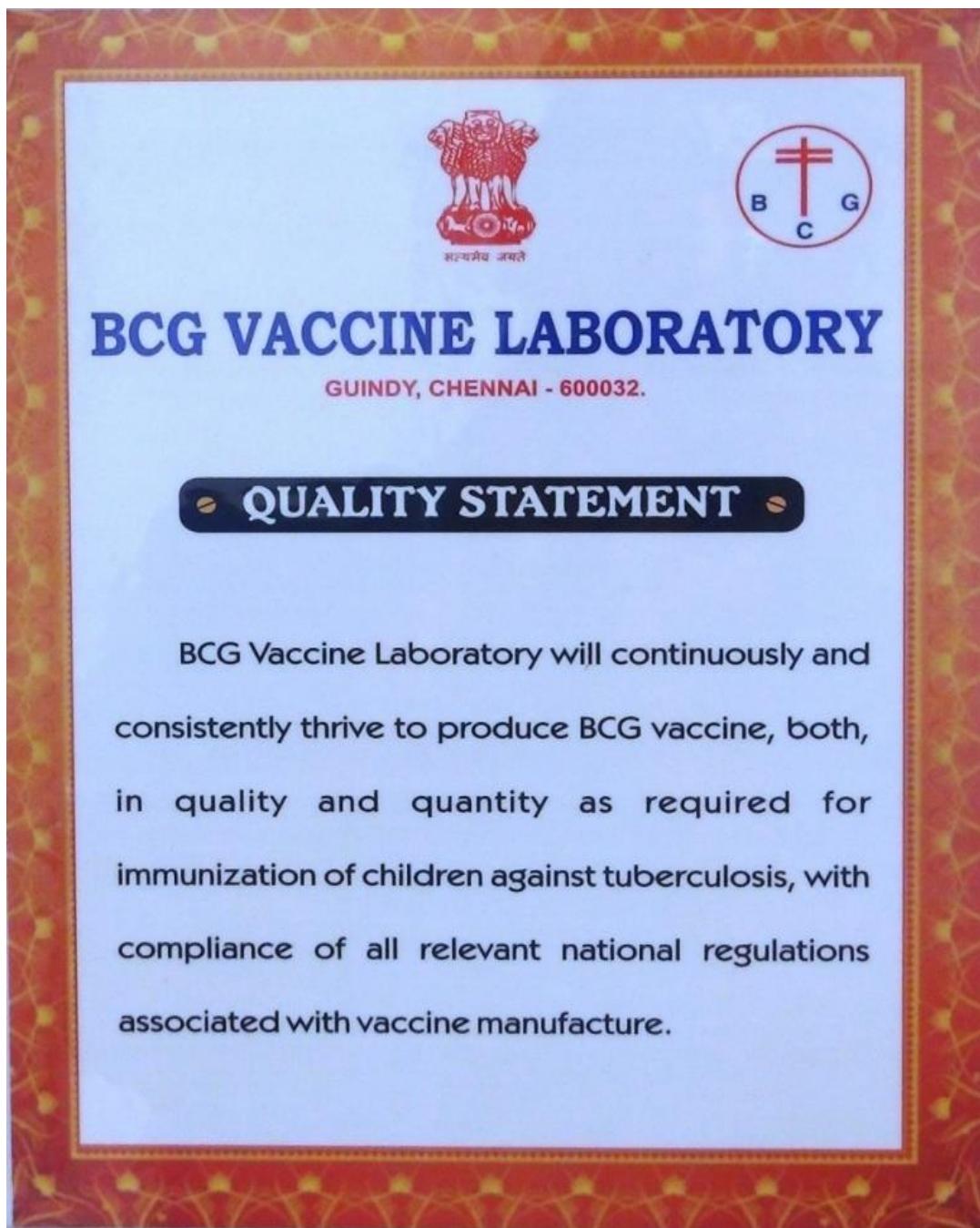
List of Directors of BCGVL

Sl.No.	Name	From	To
1.	Dr.K.S.Ranganathan	01.05.48	02.06.57
2.	Dr.C.B.D'silva	03.06.59	28.10.66
3.	Dr.J.C.Suri	28.07.67	26.06.71
4.	Dr.K.P.Rao	10.09.71	30.01.82
5.	Dr.S.Basu	10.11.82	31.05.93
6.	Dr.M. Jayasheela	30.06.93	06.11.98
7.	Dr.N. Elangeswaran	11.11.98	31.07.08
8.	Dr.C.H.D. Vinodkumar (I/C)	31.07.08	26.07.09
9.	Dr. Usha Soren Singh	27.07.09	30.04.12
10.	Dr. H.G. Bramhne	24.05.12	27.07.18
11.	Dr. B.Sekar	04.08.18	Present

Objective of BCGVL: To produce BCG vaccine for Universal Immunization Program of Government of India, to immunize children against Tuberculosis with all compliance to ensure the vaccine security of the country.

Important Milestones

- Till 1972 - BCG vaccine was supplied in ampoules in liquid form.
- 1973 - Introduced production of BCG Vaccine Freeze Dried form (50doses/ampoule)
- 1982 - Introduced BCG Vaccine in 20 doses/ampoule.
- 2000-01 - Changed BCG Vaccine from ampoules to vials.



Creation of new cGMP facility

- Ministry vide Order dated 26.02.2010 directed that the BCGVL shall be made current Good Manufacturing Practices (cGMP) compliant within three years,
- Standing Finance Committee approved for construction of new cGMP facility and sanctioned Rs.64.73 crores towards project cost for the cGMP facility in November 2011.
- M/s.HLL, was nominated as the Project Management Consultant (PMC), for establishing the cGMP facility at BCGVL.
- Memorandum of Agreement (MOA) was signed between BCGVL and HLL, the Project Management Consultant in March 2012.
- Civil work was start at site after obtaining the statutory approval from Chennai Metro Development Authority in November 2012.
- The physical construction of new cGMP facility was completed in June 2015.
- Application was submitted to National Regulatory Authority for NOC for undertaking Trial batch production in new cGMP facility in January 2016.
- New cGMP facility was handed over to BCGVL in March 2016.
- After the receipt of Trial license, Trial batch production was initiated in the new facility in September 2016.
- After completing the Trial batches, production of Consistency batches was initiated in July 2017.
- The samples of the Consistency batches were submitted to Central Drug Testing Laboratory, Kasauli.
- The Consistency batches were approved by CDL in June 2018 as of standard quality.
- Joint Inspection by State Licencing Authority, National Regulatory Authority and expert from CDL was carried out in September 2018.

New cGMP Facility

The production block is an independent cGMP facility for manufacturing of BCG vaccine. The block consists of ground plus two floors.

Total plinth area : 1190 m²

Total build up area : 3570 m²

Total height of building : 15.24 m

First Floor The Upstream process up to final bulk preparation is done in the first floor

Ground Floor The downstream process of filling, freeze drying, capping, visual inspection, labelling are carried out in the ground floor.

Second Floor Second floor is a dedicated technical area for Air Handling unit and Building management system.

Terrace The chiller plants are placed on the terrace of the block.

The facility has the following features:

Modular Partition and Epoxy floor

The partitions are made from the clean room compatible metal sandwiched panels to provide ease in cleaning and sanitizing. The floors are smoothly finished and are painted with epoxy. The doors have interlocking system so that both the doors are not opened at the same time. Door locks are also interfaced with fire alarm system for safety purpose.

Ventilation systems

Dedicated Heat Ventilation Air-conditioning (HVAC) systems appropriate to process requirement is made.

Drains

All drains are provided with double trap system.

Other Utilities to support the manufacturing facility

Effluent Treatment Plant

15 KLD Effluent Treatment plant is installed to treat the effluents.

Sewage Treatment Plant

Sewage Treatment Plant (10 KLD) is installed for the treatment of sewerage.

Water Systems

BCGVL requires approximately 25 - 35 KLD of raw water for day to day activities and have a storing capacity of approximately 1.9 lakh KLD in underground sump and 50 KLD in Overhead tank.

The installed water system generates and distributes the Purified water, Water for Injection and Pure Steam as required by the process to the entire facility.

Boiler

An IBR Boiler 1.5 tonne is installed to supply steam to the entire facility.

Diesel Generator

Two Diesel Generators of 600 KVA capacity each were installed to ensure continuous power supply.

Air Compressor

Air compressor (179 CFM, 8.6 Bar) is installed to provide oil free and moisture free compressed air to the facility.

Fire Protection and Alarm System

Fire hydrant, Sprinkler system, Fire detection, Alarm system and Fire extinguishers are installed.

Electrical Distribution System

As part of new facility, electrical distribution system of 1025 KVA was installed and commissioned.



BCGVL Side View



BCGVL Front View



Refrigerated vehicles used for transporting vaccine

Production Section–Upstream

The production section is located at the first floor of the new cGMP facility. Total area is 658.39 m² and it is classified into Class B and Class D areas facilitated by 04 AHUs.

Functions of the Section

1. Seed Revival

The BCG seed lot MWSL (Danish 1331) is revived in Sauton potato medium.

2. Propagation

Production involves subculture using the Sauton Potato medium and Sauton liquid medium. This bacterial culture is then subjected for harvesting.

3. Harvesting

The bacterial culture is harvested using Birkhaugh's apparatus, the wet cake is weighed and homogenized. The cake is diluted using mono sodium glutamate and made as intermediate bulk suspension. The suspension after passing the in-process sterility is pooled and diluted to make final bulk. The final bulk is transferred to filling section for containerization.

Activities Performed

Routine day to day cleaning activities of room and equipment were carried out.

1. Glassware cleaning activities
2. Garment cleaning activities for Steriware and factory garments
3. Steam sterilization activities for Steriware and factory garments
4. Dry heat sterilization of beads with flask, crystal cups, 10cc pipettes, 500ml measuring cylinders
5. Media preparation for QC section.



General Washing



Autoclave and DHS loading



DHS loading



Dynamic Garment Cubicle



Hand sanitisation dispenser



Garment Washing

Containerization Section – Downstream

The Containerization section is located at the ground floor of the new cGMP facility. Total area is 747.26m² and it is classified into Class B, Class C and Class D areas facilitated by 7 AHUs.

Functions of the Section

1. Filling

The final bulk transferred from production section is filled in each sterile amber colour 2R vial, half stoppered using online filling machine.

2. Lyophilisation

The vials are then loaded in the freeze drier and lyophilized. After the completion of lyophilisation the vacuum is broken and full stoppered.

3. Vial Capping and Visual inspection

The full stoppered vials are unloaded from freeze driers and capped using aluminium flip off.

All the above activities are carried out in automated online filling machine and lyophilizer. The vaccine vials are transferred to vial visual inspection section. The vials are physically checked for any foreign particles.

Activities Performed

1. Room Cleaning and temperature Monitoring
2. Garments Washing Activities
3. Stream Sterilization Activities
4. Validation of stream sterilizer/bung processor
5. Calibration of cold room and DHS for thermal mapping
6. Vial labelling
7. VVM labelling



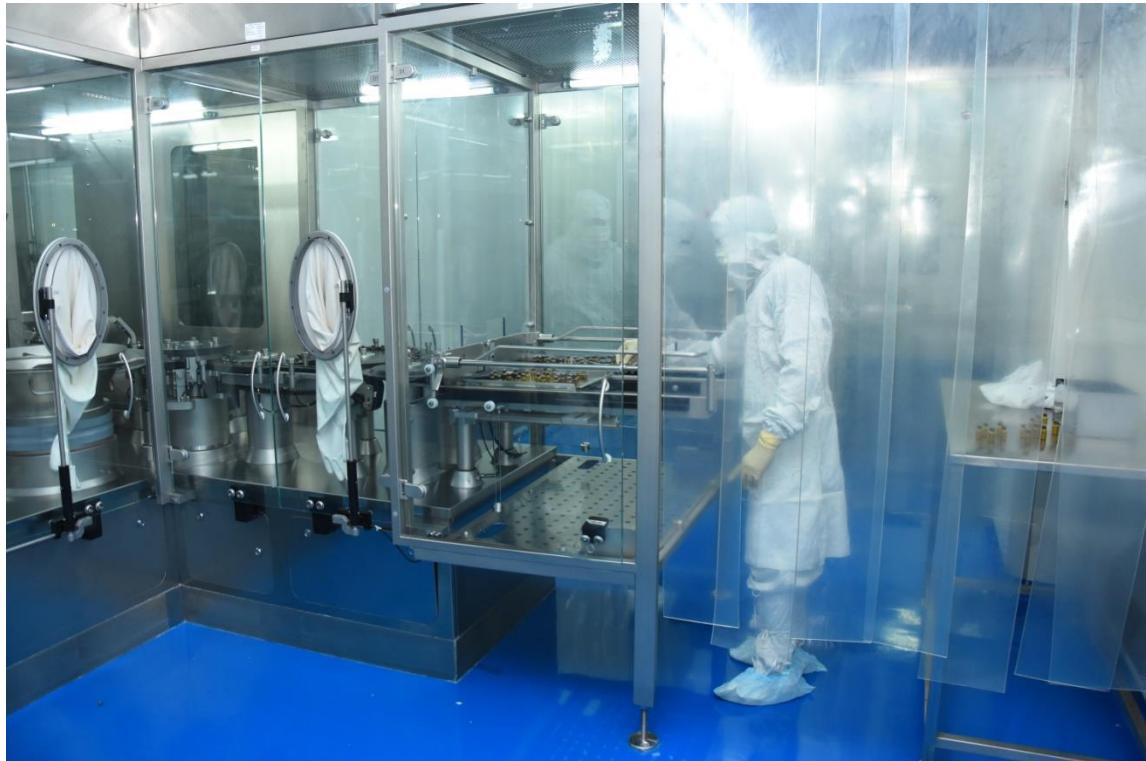
General Washing



Loading of glass vials in to online washing and depyrogenation tunnel



Filling and half stoppering vibrator



Filled Vials collection area



Autoclave and DHS unloading area



Vial capping machine

Labelling and Packing Section

Functions of the Section

The final lots are physically visualized in vial inspection machine for deviation. Then the final lots are labelled, VVM dots affixed, packed appropriately and stored in cold room for final dispatch.

Activities performed

1. The temperature of the cold room is monitored and recorded daily.
2. The packing area and packing refrigerator temperature are monitored and recorded daily.
3. Six consistency batches were labelled, VVM affixed and Packed. These vials are stored in cold room.



VVM Applicator

Warehouse Section

Functions of the warehouse section

The warehouse section procures raw materials, chemicals, equipment, spares, stationery, consumables, clean room materials and furniture. Floating of tenders for procurement, preparation of ranking, conducting purchase committee meetings are being performed by the warehouse section. It performs inventory management through online and processes bills for payment on time.

Activities performed

1. Storage and issue of consumables and stationeries
2. Installation of Aadhar enabled biometric attendance devices
3. Training for purchase through Government e-Marketplace (GeM)
4. Order placed on GeM for Computers
5. Procurement of Modular Furniture for QA Section
6. Installation of CCTV Cameras
7. Number of Maintenance Contracts awarded
Annual Maintenance Contract– 15
Comprehensive Maintenance Contract– 04
Operations and Maintenance - 03



Primary Material and Package Store



Test pass material store

Quality Assurance

Quality assurance drafts quality assurance policies and procedures. It plans, conducts and monitors the testing and inspection of materials and products to ensure required product quality.

Functions of the section

It is responsible for the management of documents, SOPs and other protocols. It takes action to investigate complaints and monitors corrective and preventive actions. It supervises validation and calibration of all equipment and instruments. It documents internal audits and monitors risk management activities. It analyses data to identify areas for improvements in the quality system. It monitors temperature maintenance of deep freezers, cold storages and incubators through data logger system. It conducts and organizes training to meet quality standards.

Activities Performed

1. Six consistency batches have passed the final quality texts as per Indian Pharmacopeia after completion of validation in new facility.
2. Summary lot protocol for consistency batches sent to CDL.
3. The consistency batches produced under Form 29 were approved by CDL as of “Standard Quality”. Action initiated to obtain license for manufacture and sale.
4. The joint inspection for grant of manufacture and sale license carried out by Drug Inspectors of State Licensing Authority (SLA) and National Regulating Authority (NRA),Chennai and experts from CDL, Kasauli
5. The compliance report on observations of joint inspection team was submitted to CDSCO, DCG(i) and SLA.
6. Online submission for Market authorization (Form 44) for BCG vaccine through Sugam portal.



Online particle counter

Quality Control Section

QC is located in the first floor of main building with dedicated area for Microbiology, Instrumentation lab and sterile area for preparation of media, culture and testing of BCG vaccine. This section performs sampling, testing, incubation/reading, recording, preparation of reports and submission of reports for raw materials/inputs.

Functions of the section

- 1. Media preparation for testing** – Sterility media (Fluid Thioglycollate Medium and SOYA), Viability media (LJ Medium), preparation of soya bean casein Digest Agar (SCDA) plates is being performed by the section.
- 2. Suitability test** on QC prepared media and Production media (sterility check and Growth Promotion Test).
- 3. Water testing** – Physio-chemical tests (pH, conductivity, Total Dissolved Solids, Total Organic Carbon and other chemical parameters) and microbiological tests (Endotoxin, Total viable count and specific pathogen tests) for raw water, purified water (PW) and water for injection(WFI).
- 4. Revival and subculture** of lyophilized microorganism, for growth promotion test on Fluid Thioglycollate Medium, Soyabean casein digest medium, SCDA plates (readymade and prepared) and soya agar are performed.
- 5. Environmental monitoring program** of clean rooms in Production, Quality control, filling and Containerization sections (at rest and at operation) and monitoring of personnel hygiene in clean rooms by swab and glove print method
- 6. Stability studies** Real time stability study and accelerated stability study of freeze dried BCG Vaccine (Identification, Viability, Water content).In-use stability study of reconstituted BCG Vaccine (Identification, Viability, Sterility)
- 7. Media fill (validation of aseptic process)** –preparation of media, suitability test (sterility check and GPT), receiving of filled and capped vials, incubating, reading, recording, and reporting is being performed by QC section.

Activities Performed

1. Raw materials/inputs and suitability testing - readymade media, prepared media, LJ Media, chemical indicators- reports submitted to QA.
2. Water testing – physio-chemical tests (pH, conductivity, Total Dissolved Solids, Total Organic Carbon) and microbiological tests (Endotoxin, Total viable count) for raw water, purified water (PW) and water for injection (WFI). Introduced filtration system for water testing.
3. Suitability test on QC prepared media & Production media (sterility check and Growth Promotion Test).
4. ETP and STP Water testing and recording.
5. Autoclave and DHS (Production, Containerization and Quality control section) Validation samples – Incubation, reading, recording and reporting.

6. Environmental monitoring programme of clean rooms in Production & Quality control (at restand at operation) - exposing, incubation, reading, recording and reporting.
7. Media preparation for testing – sterility media (Fluid Thioglycollate medium and SOYA), normal saline, Sauton, dilute sauton, buffer, tween 80, salt solution and LJ Medium, preparation of Soya bean Casein Digest Agar (SCDA) plates.
8. Revival and sub culture of lyophilized microorganism, for Growth promotion test on Fluid Thioglycollate Medium, Soya bean casein digest medium, SCDA plates (readymade and prepared) and soya agar.
9. Washing, drying, plugging of test tubes, preparation of bungs for flasks, arranging and sterilization of glass wares/materials which were used for testing.
10. Real time stability study and Accelerated stability study of freeze dried BCG Vaccine.
11. Regular maintenance, internal calibration and operation of all instruments/equipments.
12. Training and internship given to students.
13. Washing, drying, arranging for sterilization and sterilization of glass wares/materials/ garments which are used during testing



Water testing lab



Instrumentation lab



Microbiology lab

Laboratory Animal House Section

The Laboratory Animal House (LAH) facility at BCGVL comprises of breeding animal house at first floor and Experimental animal house at ground floor. The facility is a standalone building located inside the premise and markedly distant from the production and other ancillary facilities. The institute is registered with CPCSEA with Registration no: 358/GO/Re/S/2001/CPCSEA from 19.01.2001 and periodically renewed its registration.

The animal house is maintained in accordance with the CPCSEA guidelines which are subjected to annual inspection by Institutional Animal Ethics Committee (IAEC) and other representatives of CPCSEA.

Activities Performance during the year: 2018-2019

The activities at the breeding animal house include breeding and weaning of guinea pigs which is planned to meet the supply of animal for the testing requirement of the production. The activity at experimental animal house is testing the vaccine for potency in-vivo in accordance with IP guidelines.

The IAEC (Institutional Animal Ethics Committee) constituted and approved by the CPCSEA periodically monitors the care, welfare, usage of animal and ethics guidelines are strictly adhered with.

The LAH currently house about 250 breeders of Dunkin Hartley breed of guinea pigs, in deep litter system. An upgradation proposal for conversion to cage system is under progress.

An application was submitted to CPCSEA for amendment in purpose of registration to include breeding for in-house, breeding for trade and research for commercial purpose. Based on which a spot inspection was conducted by CPCSEA nominee, Dr.G.Thangapanian, Assistant Professor, TANUVAS, Chennai, at our premise and the application is under process with CPCSEA.

Constitution of IAEC as approved by CPCSEA

Sl.No	Name of IAEC Members	Designation In IAEC
1	Dr.B.Sekar, Director, BCGVL	Biological Scientist(Chairperson)
2	Dr.T.F.Hassan, CMO(SAG), BCGVL	Scientist from different Discipline (Member Secretary)
3	Dr.K.Hemalatha, Deputy Director King Institute of Preventive Medicine & Research	Scientist from different discipline
4	Smt A.Kalyani, Technical Supervisor, BCGVL	Scientist In-charge of Animal house facility
5	Dr.S.Anand, Veterinarian, BCGVL	Veterinarian
6	Dr.Ramesh Srinivasan, Professor, Laboratory Animal Medicine, DCAHS,TANUVAS	Main Nominee

Sl.No	Name of IAEC Members	Designation In IAEC
7	Dr.C.Kathirvelan, Assistant Professor, Dept of Animal Nutrition, Veterinary College	Link Nominee
8	Dr.R.Sheela Devi, Retired as Associate Professor & HOD, Dr. ALM PG IBMS, University of Madras	Scientist From Outside the institute
9	Smt.Prema Veeraraghavan, Vidhyarambam Trust	Socially Aware Nominee

Meetings /Inspections conducted

Name	Duration	Participants
3 rd IAEC Meeting	29.08.2018	CPCSEA Nominee and IAEC Members
CPCSEA Annual inspection	16.02.2019	Dr.S.Ramesh, Professor and Head, LAM, TANUVAS, Chennai and CPCSEA nominee.
4 th IAEC Meeting	16.02.2019	CPCSEA Nominee and IAEC members

Progress made:

1. SS cages and cage racks: Procurement of stainless steel cages for housing of guinea pigs which will help in maintaining cleanliness of the facility and utilization of vertical space available.
2. Proposal for modification of Breeding Animal house: Modification of Existing Breeding animal house in line with GLP Compliance was approved by IAEC and proposal submitted to CPWD for preparing estimate.
3. Corn Cobb as Bedding Material: Replaced corn cobb as breeding material in place of paddy husk which enabled trusted source, dust free, continuous supply of breeding material for laboratory animal.



Guinea pigs in deep litter system

Transport and Maintenance Section

Maintenance section monitors key utility supply for vaccine production including air, water and steam. The utility area is located in the second floor of the new cGMP building with AHUs, chiller plant and Water System. The facility is monitored by centrally controlled Building Management System. (BMS)

Functions of the section

The section checks chilled water temperature and water circulation pressure and feeding of water in chiller under required pressure. Observation of incoming voltage and outgoing voltage in 7 X 24 and HT and LT panel is being performed.

It operates STP and ETP plants, checks the raw water level in raw water tank, feeding raw water in STP and ETP plants, and sending the treated Water to QC section for analysis. Attending faults on complaints by the user section.

Activities performed

1. Operation and maintenance of BMS plant AHU Unit.
2. Operation and maintenance of BMS plant chilled water plant.
3. Operation and maintenance of BMS plant cold storage plant in new Facility.
4. Maintenance of autoclave.
5. Maintenance of Dry heater.
6. Maintenance of sterilization.
7. Maintenance of 1600 KVA substation.
8. Maintenance of Water plant, Boiler plant, STP and ETP plant.
9. Maintenance of 600 KVA DG set 2 numbers.
10. Maintenance of 380 KVA DG 1 NO and Other Laboratory equipment.



Lyophilizer technical area



Water Plant



Diesel Generator with 600KVA capacity



1025 kVA Electrical Distribution station



Transformer



IBR Boiler with capacity 1.5 tonne



Effluent Treatment Plant (15KLD capacity) and Sewage Treatment Plant (4KLD capacity)

Meetings attended by Director and other Officers

Sl.No.	Meeting Date	Officers concerned who attended the Meeting	Purpose of visit
1	31.08.2018	Dr.B.Sekar, Director	Attended Local Monitoring Committee Meeting at Pasteur Institute of India, Coonoor
2	26.11.2018	Dr.B.Sekar, Director	Attended Institutional Ethical Committee Meeting as Dy.Chairperson at CLTRI, Chengalpattu.
3	26.11.2018	1.Dr.S.Anand, Veterinarian 2. Shri.A.Krishnakumar, Administrative Officer	Visited Integrated Vaccine Park, Chengalpattu, to discuss technical and administrative issues with Officers of HLL Biotech Ltd.
4	12.12.2018	Dr.B.Sekar, Director	Attended Training Programme to strengthen the Institutional Ethical Committee at CLTRI, Chengalpattu.
5	12.12.2018	1.Dr.B.Sekar, Director 2.Dr.S.Anand, Veterinarian 3.Shri A.Krishnakumar, Administrative Officer	Visited Integrated Vaccine Park, Chengalpattu, to discuss technical & administrative issues with Officers of HLL Biotech Ltd.
6	20.12.2018	1.Dr.B.Sekar, Director 2.Shri A.Krishnakumar Administrative Officer	Attended CDSCO Meeting at CDSCO (HQ) & visited DGHS, New Delhi to discuss administrative issues.
7	29.01.2019	Dr.B.Sekar, Director	Attended Institutional Ethical Committee Meeting as Dy.Chairperson at CLTRI, Chengalpattu.
8	20.02.2019	1.Dr.B.Sekar, Director 2.Shri A.Krishnakumar Administrative Officer	Attended Meeting to hold preliminary discussion related to Management Contract of HLL Biotech Ltd. chaired by AS and DG.
9	08.03.2019	1.Dr.B.Sekar, Director 2.Dr.Hassan Thuddathifanuge,CMO(SAG)	Attended one day training / Workshop on PSURs and RMPs conducted by CDSCO(HQ) at Hotel Royal Plaza, New Delhi.
10	11.03.2019	1. Dr.B.Sekar, Director 2.Dr.Hassan Thuddathifanuge, CMO(SAG) 3.Dr.S.Anand, Veterinarian 4.Shri.Balaje, Technical Supervisor	Attended Meeting regarding Market Authorisation conducted by CDSCO(HQ), New Delhi
11	18.03.2019	1.Dr.B.Sekar, Director 2.Shri A.Krishnakumar Administrative Officer	Attended Working Committee Meeting on Uniformity of RRs at Pasteur Institute of India, Coonoor

Conferences/Seminars/Trainings attended by Officers and Staff

Title	At Institute/Venue	Date	Attendee
Training in Pay Fixation	ISTM, New Delhi	25 th April 2018 to 27 th April 2018	Mr.M.Jayasankar, UDC
Induction training for newly recruited Junior Statistical Officers	National Statistical Systems Training Academy (NSSTA), Greater Noida, India	02 nd July 2018 to 20 st July 2018	Mr.S.Andrew, JSO
Training in Cash and Accounts	ISTM, New Delhi	10 th September 2018 to 09 th November 2018	Mr.M.Jayasankar, UDC
8 th Asian federation of Laboratory Animal Science (AFLAS) Association Congress 2018	Hotel Gardenia, ITC Bangalore, India.	29 th November 2018 to 1 st December 2018	Dr.S.Anand, Veterinarian
Handling of CAT cases	ISTM, New Delhi	07 th January 2019 to 09 th January 2019	Mr.M.Jayasankar, UDC
Training in Raw Material and Packing Material Testing	HLL Biotech Limited, Chengalpattu	21 st January 2019 to 23 rd January 2019	Mr.K.Ekambaram, TS Mr.R.Balaje, TS Mrs.A.Revathy, TS Mr.M.Krishnan, LA Mr.V.Kathiravan, LA
Training in Cleaning and Sanitization	HLL Biotech Limited, Chengalpattu	24 th January 2019	Mr.MdAyoob, SA Mr.Ravishankar, SA Mrs.Seshalakshmi, SLA Mr.SaravanaKumar, SLA Mr.ArulMadhan, LA
Training in Environmental monitoring programme	HLL Biotech Limited, Chengalpattu	28 th January 2019 to 30 th January 2019	Mrs.R. Jayanthi, TS Mr.M.G.Rajasekhar, TS Mr.K. Raji, TS Mrs.S.SudhendiraDevi, LA Mrs.D.Hema, LA
Training in Website Development	CLTRI, Chengalpattu	12 th March 2019 to 14 th March 2019	Mr.S.Andrew, JSO

List of Major Equipment available in BCGVL

PRODUCTION	
Bio safety Cabinet	Deep freezer
Dispensing Booth	Refrigerator
Hanging LAF	Incubator
Dry Heat Sterilizer	BCG Mill
Autoclave	Electronic Weighing Balance
Media Preparation Vessels	Garment Washing machine
Buffer Preparation vessels	

CONTAINERISATION	
Vial Washing and Depyrogenation Tunnel	Lyophilizer
Online Filling Machine	Laminar Air flow
Online Particle counter	Dry Heat Sterilizer
Vial inspection Machine	Autoclave
VVM Applicator	Garment Washing machine
Vial labelling Machine	Hanging LAF
Vial Capping Machine	Mobile LAF
De Dusting tunnel	

WAREHOUSE	
Electronic Weighing Balance	
Dispensing Booth	
Sampling Booth	

QUALITY ASSURANCE	
Deep freezer	Viable Air Sampler
Particle counter (Lasair III)	Data Logger
Particle counter (Metone)	Electronic Weighing Balance

QUALITY CONTROL	
Autoclave	Centrifuge
Dry Heat Sterilization	Light Microscope
pH Meter	Bioluminometer
Conductivity meter	HPLC
Electronic Weighing Balance	Sonicator
Refrigerator	TOC Analyser
Laminar Air Flow	Karl Fischer
Incubator	Spectrophotometer
Fluorescent Microscope	Vortex Mixer
Deep Freezer	Stability Chamber

MAINTENANCE/UTILITY	
Boiler	Chiller Plant II
Diesel Generator Set	Filter Cleaning Machine
Air Compressor	Building Management System
Fire pump	Sewage Treatment plant
Filter Cleaning Machine	Effluent Treatment Plant
Building management System	Brine Chiller Plant I

WATER SYSTEM	
Pre-treatment system	Pure Steam Generation Plant
RO Water System	WFI Generation Plant
Purified water Generation System	WFI Storage & Distribution
Purified Water Storage & Distribution	

Students training program carried out in 2018 - 2019

Programme	UG	PG	TOTAL
Internship program (Two weeks)	9	10	19
One day visit 29/02/19	Nil	30	30
One day visit 29/03/19	6	Nil	6

Office Council Constitution and Meetings

As per the direction of Ministry of Health and Family Welfare, WP&G section this office has constituted office council at BCGVL on 19.11.2018. The first Office Council Meeting (OCM) was held on 21.12.2018 in which the leader representing staff was selected. The OCM is being held periodically. The second OCM was held on 30.03.2019. Many major issues were discussed and addressed.

The members of OCM representing Office side and Staff side are as follows:

Sl.No.	Office Side		Staff Side	Post represented
1.	Dr.B.Sekar, Director	Chairman	V.Kennedy, Leader	Lab Peon/ Office Peon/ UDC
2.	A.KrishnaKumar, Administrative Officer	Member Secretary	Padvi Shirish Bapu, Deputy Leader	EMS/Technician/Drivers
3.	Dr.T.F.Hassan, CMO(SAG)	Member	R.Sivakumar, Member	Mechanic
4.	Dr.S.Anand, Veterinarian	Member	A.Murali, Member	LDC/Workshop/ Khalasi/Carpenter
5.	Selvi Anbudurai, ATO	Member	A.Sheshalakshmi, Member	Lab Assistant/Scientific Assistant
6.	V.Indra, Head Clerk	Member	K.Selvaraghlu, Member	Lab Peon/ Animal Attendant/ Safaiwala
7.	R.Anandan, EMS	Member	P. Sasikala, Member	Technical Supervisor/Senior Lab Assistant

List of Retired Staff for the period from 01.04.2018 to 31.03.2019

Sl.No.	Name of the Employee,Designation	Image	Date of Superannuation/VRS
1	Mrs.S.Kandhammal, Head clerk		31.05.2018 Superannuation
2.	Shri V.J.Subramaniam, Lab Assistant		31.05.2018 Superannuation
3.	Shri M.Shankar, Scientific Assistant		30.06.2018 Superannuation
4.	Shri S.Ashok Kumar, E&M Supervisor		31.07.2018 Superannuation
5.	Shri D.Udaya Kumar, Safaiwala		31.01.2019 Relieved on VRS

Events/ Celebrations/Observations during April 2018 to March 2019

Foundation day celebration

71st foundation day was celebrated at BCGVL premises on 1st May 2018. Dr.H.G.Brahmne, Director, addressed all the staff members and appreciated the staff members for their contribution for successful completion of 6 consecutive batches in the new cGMP facility.

Central Drug Testing Laboratory (CDL), Kasauli, on 27.6.2018,conveyed approval for six consistency batches produced under form 29 from the new cGMP facility as of standard quality.

72nd Independence Day was celebrated on 15th August 2018 and Dr B.Sekar, Director hoisted the tricolour at BCGVL premises. During his address, Director recalled the struggle rendered by our freedom fighters for independence during colonial period and on the establishment of this institute post-independence period taking into account the importance and need for BCG Vaccine for our children. Further during his interaction with the staff members he motivated them to extend their contribution for successful completion of NRA inspection expected anytime from then.

Hindi day and Hindi pakhwada celebrations

Hindi diwas was celebrated at BCGVL on 14/09/18. Dr B.Sekar, Director BCGVL, presided over the function and welcomed the chief guest, Shree B.Mohan, Joint Director, Central silk Board, Coonoor who inaugurated the Hindi fortnight (pakhwada) celebration at BCGVL He emphasized the importance of Hindi as official language in his speech.

Hindi pakhwada was celebrated from **14th September to 30th September 2018**. During the period various competitions were conducted including handwriting, dictation, essay writing, speech and singing competition.

Prizes for winners and consolation prizes for all participants were distributed on the valedictory function held on 01/10/2018. Mr.Shurabkumar, Deputy Manager, Rajbasha, MMDC, Chennai was invited as chief guest during the event. He spoke on the history of recognition of Hindi divas and the role of Official Language Implementation Committee (OLIC) in the implementation of Hindi as official language.

Joint inspection by Drug inspectors of Central Drug Standard Control Organization (CDSCO) and State Drug Controller Office and representative from Central Drug testing Laboratory was carried out from 27th to 29th September 2018,for grant of Commercial Licence at BCGVL. All the concerned officers and staff facilitated the Joint Inspection.

Vigilance awareness week was observed from 29th of October to 3rd of November 2018.

A pledge taking ceremony was conducted at the office veranda and all the staff members took integrity pledge registering their support and commitment against corruption.

A one day seminar was conducted for Administration, Accounts and Warehouse section staff by Mr.R.Srinivasan, retired IPS officer, currently consultant from Institute of Government Accounts and Finance, Ministry of Finance, Chennai was invited as guest speaker. He spoke on the responsibilities of a civil servant and the dos and don'ts of the procedure of procurement of stores.

Visit of Director General of Health Services

Dr.V.Venkatesh, Director General of Health Services, visited BCGVL on 2nd December 2018 and conducted a review meeting for all offices in south zone. He inspected the new cGMP facility and appreciated the efforts taken by staff and officers of BCGVL.

Pongal festival was celebrated on 14th January 2019in a grand manner with participation of all staff members.

Expert Committee Meeting on production of PPD in BCGVL

BCGVL facilitated Central TB Division of Ministry of Health and Family Welfare to organise a two days expert committee meeting on 17th and 18th January 2019 to assess possibility of production of PPD at BCGVL for programmatic purpose.

The team interacted with the officials of BCGVL which was followed by a presentation by Dr. B. Sekar, Director, BCGVL about the functions of BCGVL and the scope for revamping the production of PPD at BCGVL. A tour of BCGVL was also organised which included visit to the state of the art cGMP compliant BCG manufacturing facility.

Members of Expert team

Central Team of Experts		BCGVL Team	
Dr. Srikant Tripathy	Director, NIRT, Chennai – Team Lead	Dr. B.Sekar	Director, BCGVL
Dr. Varinder Singh	Professor (Pediatrics), LHMC, New Delhi	Dr.T.F. Hassan	CMO (SAG), Head QA
Dr.K Reena	Consultant Microbiologist, NTI, Bengaluru	Dr. S. Anand	Veterinarian
Dr. Ranjani Ramachandran	NPO, WHO India	Mr. A.Krishna Kumar	Administrative Officer
Mrs.ShanthyGunasekaran	Deputy Drugs Controller,CDSCO, Chennai	Mr. Balaje	Technical supervisor, QA
Dr.S.Anand	National Consultant TB Laboratories		
Dr. Nishant Kumar	DADG (TB), CTD, New Delhi		

Legal Awareness Programme for Working Women

Tamil Nadu State Commission for Women (TNSCW) in association with National Commission for Women conducted Legal awareness programme at BCGVL on 25th January 2019. The topics discussed were domestic violence, dowry act, awareness regarding cyber crime and use of social media, women and politics, sexual harassment of women at workplace and present status of protection of women in the society. BCGVL staff along with State Police department, Anganwadi workers of Tamil Nadu government attended the programme. BCGVL facilitated the conducting of meeting

The following members delivered their speech in the meeting on the various topics as follows:

1.	Dr.Kannegi Packianathan,I.A.S.,(retd.) Chairperson, (TNSCW)	Presidential Address
2.	Dr.B.Sekar, Director, BCGVL	Special Address
3.	Mr.P.Subburaj, Consumer Court Judge.	Domestic Violence
4.	Mrs. Pandiyammal, Protection Officer.	Dowry Act
5.	Mrs.A.Radhika,I.P.S., Member, TNSCW	Cyber Crime and Role of Media
6.	Mrs.Vijayalakshmi Ramamoorthy, Member,TNSCW	Women and politics
7.	Mrs.Shanthi Priya, Advocate	Sexual Harassment at Work Place
8.	Dr.Juliet Selvi Veerabadran, Member, TNSCW	Question and Answer Session

69th Republic Day Celebration

Dr.B.Sekar, Director, BCGVL unfurled National flag on the occasion of on 26th January 2019 at BCGVL. During his address on the occasion, Director spoke in detail on the process of preparation of constitution, after the independence, which was passed on 26 November 1949 in the Constituent Assembly and was adopted on 26 January 1950 with a democratic government system.

Spot Inspection by CPCSEA representative

CPCSEA representative Dr.Thangapandian, Assistant professor, TANUVAS, Chennai conducted spot inspection for amendment in registration of Laboratory Animal House, on 16th February 2019 for the purpose of breeding for in-house use, breeding for trade and testing for commercial purpose.

Inauguration of Aadhar based Biometric Attendance System and Operation of CCTV Cameras

Dr.B.Sekar, Director, BCGVL inaugurated Aadhar based Biometric Attendance System at BCGVL on 6th March 2019 and CCTV cameras installed at various locations at BCGVL were made operational.

Gallery for Events

72nd Independence Day was celebration (15.08.2018)



72nd Independence Day was celebrated on 15th August 2018 and Dr B.Sekar, Director hoisted the tricolour flag at BCGVL premises and interacted with staff.



Hindi Day celebrations and pakhwada celebrations (14.09.2018 to 01.10.2018)



Hindi Diwas was celebrated at BCGVL on 14/09/18. Shree B.Mohan, Joint Director, Central Silk Board, Coonoor inaugurated the Hindi fortnight (pakhwada) celebration at BCGVL.

Hindi pakhwada was celebrated from 14th September to 30th September 2018. Prizes for winners and consolation prizes for all participants were distributed on the valedictory function held on 01/10/2018.



Mr Shurabkumar, Deputy Manager, Rajbasha, MMDC, Chennai was the chief guest.



Vigilance Awareness Week (29.10.2018 to 03.11.2018)

Vigilance awareness week was conducted from 29th of October to 03rd of November 2018.





A pledge taking ceremony was conducted against corruption.

Visit of Director General of Health Services (02.12.2018)



Dr.V.Venkatesh, Director General of Health Services, visited BCGVL and conducted a review meeting for all offices in south zone.

Expert Committee Meeting (17.01.2018 to 18.01.2019)



BCGVL facilitated Central TB Division of Ministry of Health and Family Welfare to organise a two days expert committee meeting on 17th and 18th January 2019 to assess possibility of production of PPD at BCGVL for programmatic purpose.

Legal awareness programme for working Women (25.01.2019)



Tamil Nadu State Commission for Women in association with National Commission for Women conducted Legal awareness programme at BCGVL.



BCGVL staff along with State Police department, Anganwadi workers of Tamil Nadu government attended the programme.

Spot inspection of Laboratory Animal House by CPCSEA representative (16.02.2019)



Dr. Thangapandian, Assistant professor, TANUVAS, Chennai, nominee of CPCSEA conducted spot inspection at BCGVL, for amendment in registration of Laboratory Animal House.

Inauguration of Aadhar based Biometric attendance system (06.03.2019)



Director, BCGVL inaugurated Aadhar based Biometric attendance system at BCGVL and CCTV cameras installed at various locations at BCGVL made operational.



**BCG VACCINE LABORATORY
GUINDY, CHENNAI**

