

GUIDELINES FOR IMPLEMENTATION OF THE SCHEME

**SETTING UP OF NATION-WIDE NETWORK OF LABORATORIES FOR
MANAGING EPIDEMICS AND NATIONAL CALAMITIES**

For the period of 15th Finance Commission (2021-22 to 2025-26)



DEPARTMENT OF HEALTH RESEARCH
MINISTRY OF HEALTH & FAMILY WELFARE
GOVERNMENT OF INDIA

(June 2021)

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1. INTRODUCTION

This is a Central Sector (CS) Scheme approved by the Expenditure Finance Committee (EFC) Chaired by Secretary (Expenditure) & Finance Secretary in the meeting held on 20th March, 2013. Approval of the CCEA was accorded on 27th June, 2013 at an estimated cost of Rs.646.83 crores for the 12th Plan period. Later approval of Standing Finance Committee (SFC) was accorded on 19.09.2017 at an estimated cost of Rs 488.5 crores for 14th Finance Commission Period (2017-18 to 2019-20). The scheme was further extended by one year till 31st March, 2021 in order to tie it up with the 14th Finance Commission Period.

2. OBJECTIVES OF THE SCHEME

- Creating infrastructure for timely identification of viruses and other agents causing morbidity significant at public health level and specifically agents causing epidemics and/ or potential agents for bioterrorism
- Developing capacity for identification of novel and unknown viruses and other organisms and emerging/ re-emerging viral strains and develop diagnostic kits.
- Providing training to health professionals.
- Undertaking research for identification of emerging and newer genetically active/modified agents
- Continual improvement in quality systems in public health laboratories for viral diagnosis.

3. COVERAGE

The scheme was envisaged to help coverage of the entire country for timely diagnosis/identification of viruses during outbreaks of epidemics, generation of data about viral diseases for facilitating quick deployment of resources & measures to save the human lives. Initially the target of the scheme during the 12th plan period was to establish three tier networks 160 laboratories (10 Regional Level labs, 30 State Level labs and 120 Medical College Level labs). Thereafter, the target was reduced to 125 Viral Research & Diagnostic Laboratories (10 Regional Laboratories; 25 State Level Laboratories and 90 Medical College Level Laboratories) during the 14th Finance Commission. As on 31st March 2021, a network of 124 VRDLs (10 Regional Level, 25 State Level and 89 Medical College Level) has been established. Geographical distribution of the VRDL labs and State wise list of VRDLs are placed at **Annexure-I** and **Annexure-II** respectively.

I. Physical Target Achieved since beginning of the Scheme in the year 2013-14 to the year 2020-21(Financial year wise)

Sr. No.	Financial Year	Targets achieved			
		Regional VRDLs	State Level VRDLs	Medical College Level VRDLs	Total
1.	2012-13	0	0	0	0
2.	2013-14	2	4	6	12
3.	2014-15	3	3	13	19
4.	2015-16	0	4	10	14
5.	2016-17	0	4	16	20
6.	2017-18	2	1	11	14
7.	2018-19	2	4	10	16
8.	2019-20	1	2	9	12
9.	2020-21	0	3	14	17
	Total	10	25	89	124

II. Physical targets for New VRDL to be setup during 15th Finance Commission period (2021-22 to 2025-26):

Sr. No.	Financial Year	Targets			
		Regional VRDLs	State Level VRDLs	Medical College Level VRDLs	Total
1.	2021-22	1	0	6	7
2.	2022-23	0	1	7	8
3.	2023-24	0	1	8	9
4.	2024-25	0	0	10	10
5.	2025-26	0	0	8	8
	Total	1	2	39	42

III. Financial Outlay during 15th Finance Commission period (2021-22 to 2025-26)

Description of item/component	Non-Recurring	Recurring	Total
New VRDL (42)	61.00	56.486	117.486
Committed Liabilities	52.00	150.714	202.714
PMIU	0.0	3.80	3.80
Total	113.00	211.00	324.00

4. FUNCTIONS OF VIROLOGY LABS

4.1. Regional Labs: It was proposed to set up at least one BSL- 3 Laboratory in each region of the country. Regional Laboratories have state-of-art facilities so that it could achieve the objectives in research, continuous monitoring and surveillance of existing as well as new viral and other strains and handling of viruses etc. with a potential of being used as agents of bioterrorism, capacity building, diagnosis, development of diagnostic kits etc. Total ten sites out of AIIMS like Institutions/and other Central Government Institutes of repute by the Expert Committee based on the available infrastructure like microbiology labs and epidemiological needs of the region were identified, thereby, a total of 10 Regional Laboratories had been established during the past period of scheme, 1 more Regional Laboratories (11th) would be established during the 15th Finance omission Period (2021-22-2025-26). The Regional Lab can be established in Central Government Institutes of repute including Armed Medical College.

4.2. State Level Laboratories: State Level Laboratories are equipped with BSL- 2 facility and expected to carry out serology, RT-PCR, isolation, fluorescence microscopy, tissue culture and sequencing for all enlisted viruses. These laboratories are also expected to be involved in basic as well as applied research on viruses, development of kits and diagnostic reagents and identification of unknown/referred samples from the Sub-state level laboratories.

4.3. Medical College Level Lab: Each medical college lab will cover a cluster of 3-4 districts. In case of any outbreak / epidemic, these medical college level labs will carry out the initial diagnosis/ screening at the most peripheral areas & nearest to the site of outbreak. While the medical college labs will be expected to identify all listed common viruses, the viruses/agents which cannot be identified by these labs will be referred to

the State/Regional Labs for identification and / or characterization. The geographic spread of the labs will be taken care of while establishing the labs to cover the entire country and the States not having any medical college will be linked to the labs in the nearby State/area.

5. ELIGIBILITY FOR SETTING UP OF VRDL

5.1. The Regional Lab can be established in Central Government Medical/Research Institutes of repute including Armed Forces Medical College fulfilling the other parameters of the Scheme.

5.2. State and Medical College Level Labs can be established in the State and Central Government Medical Colleges and Research Institutes including Army Medical Hospitals. They can also be established in Central Government Institutes providing medical and health services viz. Railway hospitals, AYUSH hospitals etc, if they fulfil the parameters for setting up of VRDL, prescribed in the Scheme Guidelines.

6. COST AND FUNDING OF VIROLOGY DIAGNOSTIC LABS (VRDLs)

6.1. Regional Labs: The Non-recurring cost of a Regional Level Lab would be about Rs. 14.575 crores for the development infrastructure, which include civil work, furnishing & furniture (Rs.9.425 cr), and equipment (Rs.5.15 cr). The recurring cost of Regional Lab per annum is Rs 0.968 crore, towards staffing (Rs.61.8 lakh), Consumables & Contingencies and Training (Rs.35 lakhs). Indicative list of equipment and Staff pattern are Annexed at **Annexure-III** and **Annexure-VI** respectively.

6.2. State Level Labs: The Non-recurring cost of a State Level Lab would be about Rs. 2.971 crores for the development infrastructure, which include civil work, furnishing & furniture (Rs.0.625cr), and equipment (Rs.2.346cr). The recurring cost of State level Lab per annum is Rs. 68 lakhs, towards staffing (Rs.43 lakh), Consumables & Contingencies and Training (Rs.25 lakhs). The labs will be managed by contractual staff only. Indicative list of equipment and Staff pattern are Annexed at **Annexure-IV** and **Annexure-VII** respectively.

6.3. Medical College Level Labs: The Non-recurring cost of a Medical College Level Lab would be about Rs. 1.507 crores for the development infrastructure, which include civil work, furnishing & furniture (Rs.62.5lakhs), and equipment (Rs.88.2 lakhs). The recurring cost of Medical College level Lab per annum is Rs 46.4lakhs, towards staffing (Rs.31.4 lakh), Consumables & Contingencies and Training (Rs.15 lakhs).

The labs will be managed by contractual staff only. Indicative list of equipment and Staff pattern are Annexed at Annexure-V and Annexure-VIII respectively.

The cost towards establishment of State level Labs and medical college labs, will be shared between the Central Government and the concerned State Government. The cost of land/building to be provided by the State Government will be reckoned towards its contribution as State Share. The Regional Labs will be managed and fully funded by the Department of Health Research.

7. IMPLEMENTING AGENCY

7.1. The scheme will be implemented by DHR through ICMR. DHR will have overall managerial and supervisory role for release of funds and monitoring of the project.

7.2. All the laboratories will work under the overall guidance of DHR which will coordinate with apex institutions like NIV, Pune; NCDC New Delhi etc. for appropriate linkages and networking.

8. SUBMISSION OF APPLICATIONS /PROPOSALS

Applications/Proposals for establishment of State level and Medical College Level Labs would be required to be submitted in prescribed format through proper channel by the concerned State Health Department to the DHR and that of Regional level, from Central Govt. Institute. Format of application is Appendix-II.

9. SCREENING/EVALUATION & DECISION ON THE PROPOSALS:

The process of screening/evaluation/final approval would broadly comprise the following:

- (1) Screening/evaluation of the proposals would be carried out by a three member Committee comprising of technical experts. This process of assessment may include, a) Site visits by the Committee or its sub-committee, wherever required; b) Seeking additional expert opinion wherever required.
- (2) The proposals duly recommended by the Screening Committee and Evaluation Committee fulfilling technical and administrative criteria would be considered in DHR for final approval. The Approval Committee would comprise of:
 - (i) Secretary, DHR ----- Chairman
 - (ii) AS & FA, MoHFW ----- Member
 - (iii) Joint Secretary, DHR (Dealing with the Scheme) ----- Member
 - (iv) Technical Expert from ICMR ----- Member

10. FUNDING MECHANISM

- 10.1.** Based on the decision of the Approval Committee, the DHR would initiate the process for release of funds.
- 10.2.** With respect of Regional and State Level Labs, 50% of cost towards civil works and equipment will be released in the first year and the remaining 50% in the next year of sanctioning of the Labs. The recurring expenditure in these labs will be provided only the second year of their sanctioning.
- 10.3.** However, in respect of Medical College Labs, the entire cost will be released at the time of sanctioning of the labs.
- 10.4.** Recurring grant will be released annually only after the VRDL has incurred 70% of expenditure of available funds/ amount released in the previous year(s) and on submission of UC and SoE and annual progress report. However, in exceptional circumstances, relaxation may be allowed by the Secretary, DHR in consultation with AS & FA.
- 10.5.** The VRDLs have to open a separate saving bank account in a nationalized bank, link the account with PFMS and follow the EAT module.
- 10.6.** State Level/Medical College Level VRDLs, who have not yet received five years annual recurring grant, will be funded through this Scheme.

11. OBLIGATIONS

11.1. Obligations of DHR:

- a)** DHR would provide guidance for speedy execution of the civil works, procurement & installation of equipment, selection & posting of requisite core staff with the active involvement of the State Health Department. This would inter alia involve-
 - Arranging Signing of MOA between the DHR/State Governments.
 - Finalization of layouts/maps for establishing the Virology Labs.
 - Tendering and hiring the agencies for construction /renovation of space provided for the setting up of Virology Labs.
 - Procurement of equipment as per the indicative list.
 - Hiring of Staff.

11.2. Obligations of the State Government / Central Government Institutes:

- a)** Allocating a building on its premises for the establishment of the Viral Research Diagnostic Lab (VRDL) or to provide space of mutually agreed dimensions (approx. 250-300 sqmt for State Level Lab and approx. 200-300 sqmtr for

Medical College Level Lab), free of cost, in its existing premises for the establishment of the VRDL.

- b) Deputing mutually agreed number of its personnel to work in the VRDL, who eventually & gradually take over the functioning of laboratories.
- c) Deputing personnel (including those belonging to the State Health Service) to undergo training/attend workshops at the VRDL.
- d) To sign MoA with the DHR (format enclosed at **Appendix-III**).

12. MONITORING MECHANISM

The various activities of the Virology Labs will be regularly monitored and guided by the Evaluation Committee, whose findings will be reported to the DHR for information/further action. The major monitorable targets/ indicators that will be used to review the various categories of Virology Labs, are given at **Appendix-IV**.

13. PROGRESS REPORTS

The VRDLs will submit annual progress report to the DHR or any other report as may be asked by DHR from time to time.

14. AUDIT REQUIREMENTS

The audit of accounts of the VRDLs would be done as per General Financial Rules (GFR) of GoI.

15. UTILIZATION CERTIFICATES

The concerned Institutions/Medical College would be required to furnish the audited Utilization Certificate (UC) and Statement of Expenditure (SoE) in accordance with the provisions of the GFRs with respect to the funds received and utilized for VRDL. The UC will be accompanied by the performance-cum-achievement reports of the VRDLs in the format as may be prescribed by the DHR. Format of the UC may be seen at **Appendix V**.

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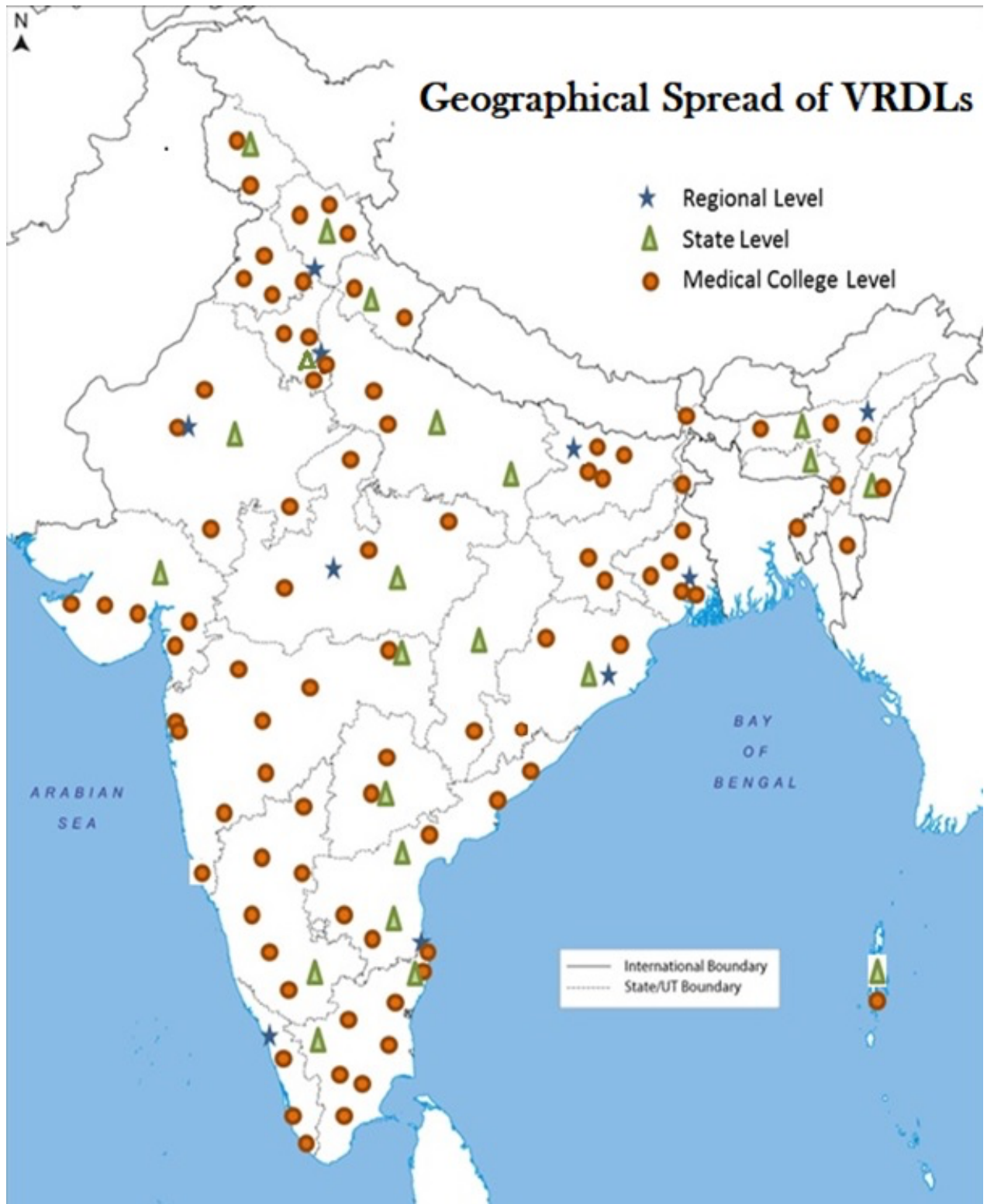
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Map of Geographical Distribution of the VRDLs



State-wise List of VRDLs

State	S.No	Name of Medical College	Level
Andaman & Nicobar Island	1.	Regional Medical Research Centre (RMRC), Portblair	State Level
	2.	Andaman and Nicobar Islands Institute of Medical Sciences, Port Blair	Medical College Level
Andhra Pradesh	3.	Guntur Medical College, Guntur	State Level
	4.	Sri Venkateswara Institute of Medical Sciences, Tirupati, Andhra Pradesh	State Level
	5.	Andhra Medical College, Visakhapatnam	Medical College Level
	6.	Government Medical College (GMC), Anantpur	Medical College Level
	7.	Rajiv Gandhi Institute of Medical Science (RIMS), Kadappa	Medical College Level
	8.	Rangaraya Medical College, Kakinada, Andhra Pradesh	Medical College Level
	9.	Siddhartha Medical College, Gunadala, Vijayawada, Andhra Pradesh	Medical College Level
Assam	10.	Regional Medical Research Centre, Dibrugarh	Regional Level
	11.	Gauhati Medical College, Gauhati, Assam	State Level
	12.	Fakhruddin Ali Ahmed Medical College, Barpeta, Assam	Medical College Level
	13.	Jorhat Medical college, Jorhat	Medical College Level
	14.	Silchar Medical College, Silchar, Assam	Medical College Level
	15.	Tezpur Medical College, Tezpur	Medical College Level
Bihar	16.	All India Institute of Medical Sciences (AIIMS), Patna	Regional Level
	17.	Darbhanga Medical College, Darbhanga	Medical College Level
	18.	Jawahar Lal Nehru Medical College & Hospital, Bhagalpur	Medical College Level
	19.	Patna Medical College, Patna	Medical College Level
	20.	Rajendra Memorial Research Institute of Medical Sciences (RMRIMS), Patna	Medical College Level
	21.	S.K. Medical College, Muzaffarpur	Medical College Level
Chandigarh	22.	Post Graduate Institute of Medical Education & Research, Chandigarh	Regional Level
	23.	Government Medical College & Hospital, Chandigarh	Medical College Level
Chhattisgarh	24.	All India Institute of Medical Sciences (AIIMS), Raipur	State Level
	25.	Late Baliram Kashyap (LSBK) Memorial Govt. Medical College, Jagdalpur, Chattisgarh	Medical College Level
Delhi	26.	All India Institute of Medical Sciences (AIIMS), Delhi	Regional Level
	27.	Maulana Azad Medical college, New Delhi	State Level
	28.	Atal Bihari Vajpayee Institute of Medical	Medical College Level

		Sciences & Dr. Ram Manohar Lohia Hospital, Delhi	
	29.	Guru Teg Bahadur Hospital, University College of Medical Sciences, New Delhi	Medical College Level
	30.	Lady Hardinge Medical College, Delhi	Medical College Level
Goa	31.	Goa Medical College, Goa	Medical College Level
Gujarat	32.	B.J. Medical College, Ahmedabad	State Level
	33.	GMC Surat	Medical College Level
	34.	GMC, vadodara	Medical College Level
	35.	Government Medical College, Bhavnagar, Gujarat	Medical College Level
	36.	M.P. Shah Govt. Medical College, Jamnagar	Medical College Level
	37.	Pandit Dindyal Upadhyay Government Medical College, Rajkot, Gujarat	Medical College Level
Haryana	38.	Bhagat Phool Singh (BPS) Medical college for Women, Sonapat	Medical College Level
	39.	Pt. BD Sharma Post Graduate Institute of Medical Education & Research, Rohtak	Medical College Level
Himachal Pradesh	40.	Indira Gandhi Medical College, Shimla	State Level
	41.	Dr Radhkrishnana GMC Hamirpur	Medical College Level
	42.	Dr. Rajendra Prasad Government Medical College, Tanda, Himachal Pradesh	Medical College Level
	43.	Lal Bahdur Shastri Medical College, Mandi	Medical College Level
Jammu & Kashmir	44.	Sher-e-Kashmir Institute of Medical Sciences, Srinagar	State Level
	45.	Govt Medical College, Srinagar, Govt of Jammu & Kashmir	Medical College Level
	46.	Govt. Medical College, Jammu	Medical College Level
Jharkhand	47.	MGM Medical College, Jamshedpur	Medical College Level
	48.	Rajendra Institute of Medical Sciences (RIMS), Ranchi	Medical College Level
Karnataka	49.	Bangalore Medical College & Research Institute, Bangalore, Karnataka	State Level
	50.	Government Medical College, Mysore, Karnataka	Medical College Level
	51.	Gulbarga Institute of Medical Sciences, Gulbarga, Karnataka	Medical College Level
	52.	Hassan Institute Of Medical Sciences (HIMS), Hassan	Medical College Level
	53.	Karnataka Institute of Medical Science Hubballi	Medical College Level
	54.	Shimoga Institute of Medical Sciences, Shimoga, Karnataka	Medical College Level
	55.	Vijayanagar Institute of Medical Sciences (VIMS), Bellary	Medical College Level
Kerala	56.	Government Medical College (GMC),	Regional Level

		Kozhikode	
	57.	National Institute of Virology (NIV) Field Unit, Kerala	State Level
	58.	GMC Thrissur	Medical College Level
	59.	Government Medical College, Trivandrum, Kerala	Medical College Level
Madhya Pradesh	60.	All India Institute of Medical Sciences, Bhopal, Madhya Pradesh	Regional Level
	61.	National Institute of Research in Tribal Health (NIRTH), Jabalpur	State Level
	62.	Bundelkhand Medical College, Sagar, Madhya Pradesh	Medical College Level
	63.	Gajra Raja Medical College, Gwalior, Madhya Pradesh	Medical College Level
	64.	MGM Medical College, Indore, Madhya Pradesh	Medical College Level
	65.	Shyam Shah Medical College, Rewa, Madhya Pradesh	Medical College Level
Maharashtra	66.	Govt Medical College (GMC), Nagpur	State Level
	67.	All India Institute of Medical sciences, Nagpur	Medical College Level
	68.	Dr Vaishampayan Memorial (VM) Government Medical College, Solapur, Maharashtra	Medical College Level
	69.	G.S Seth Medical college and KEM Hospital	Medical College Level
	70.	Government Medical College (GMC), Aurangabad	Medical College Level
	71.	Government Medical College, Akola	Medical College Level
	72.	Government Medical College, Miraj, Sangli	Medical College Level
	73.	Indira Gandhi Medical College, Nagpur, Maharashtra	Medical College Level
	74.	Kasturba Hospital for Infectious Disease, Mumbai, Maharashtra	Medical College Level
	75.	Shri Bhausahab Hire Government Medical College & Hospital, Dhule	Medical College Level
Manipur	76.	Regional Institute of Medical Sciences (RIMS), Imphal	State Level
	77.	Jawaharlal Nehru Institute of Medical Sciences (JNIMS), Imphal, Manipur	Medical College Level
Meghalaya	78.	North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences (NEIGRIHMS), Shillong	State Level
Mizoram	79.	Zoram Medical College, Mizoram	Medical College Level
Odisha	80.	Regional Medical Research Center (RMRC), Bhubaneswar	Regional Level
	81.	All Indian Institute of Medical Sciences, Bhubaneswar	State Level
	82.	Srirama Chandra Bhanja (SCB) Medical	State Level

		College, Cuttack	
	83.	Saheed Laxman Nayak Medical College and Hospital, Koraput	Medical College Level
	84.	Veer Surendra Sai Institute of Medical Sciences and Research, Sambalpur	Medical College Level
Puducherry	85.	Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Puducherry	Regional Level
	86.	Indira Gandhi Medical College & Research Institute, Puducherry	Medical College Level
Punjab	87.	Govt. Medical College, Amritsar	Medical College Level
	88.	Govt. Medical College, Patiala, Punjab	Medical College Level
	89.	Guru Gobind Singh Medical College, Faridkot	Medical College Level
Rajasthan	90.	All India Institute of Medical Sciences (AIIMS), Jodhpur, Rajasthan	Regional Level
	91.	Sawai Man Singh (SMS) Medical College, Jaipur	State Level
	92.	Jhalawar medical college, Jhalawar	Medical College Level
	93.	Ravindra Nath Tagore (RNT) Medical College, Udaipur	Medical College Level
	94.	S N Medical College, Jodhpur Rajasthan	Medical College Level
	95.	Sardar Patel Medical College (SPMC) Bikaner	Medical College Level
Tamil Nadu	96.	Coimbatore Medical College	State Level
	97.	The King Institute of Preventive Medicine and Research (KIPM&R), Chennai	State Level
	98.	Government Medical College, Theni, Tamil Nadu	Medical College Level
	99.	Government Medical College, Thiruvavur, TamilNadu	Medical College Level
	100.	Government Medical College, Villupuram, TamilNadu	Medical College Level
	101.	Government Mohan Kumaramangalam Medical College, Salem	Medical College Level
	102.	Madras Medical College, Chennai	Medical College Level
	103.	Madurai Medical College, Madurai, Tamil Nadu	Medical College Level
	104.	Tirunelveli Medical College, Tirunelveli	Medical College Level
Telangana	105.	Gandhi Medical College, Telangana	State Level
	106.	Kakatiya Medical College, Warangal, Telangana	Medical College Level
	107.	Osmania Medical College, Hyderabad	Medical College Level
Tripura	108.	Government Medical College, Agartala	Medical College Level
Uttar Pradesh	109.	Banaras Hindu University (BHU), Varanasi	State Level
	110.	King George's Medical University (KGMU), Lucknow	State Level
	111.	Regional Medical Research Center, Gorakhpur	State Level

	112.	Jawaharlal Nehru Medical College (JNMC), Aligarh	Medical College Level
	113.	Uttar Pradesh Rural Institute of Medical Sciences & Research, Saifai, Etawah, UP	Medical College Level
Uttarakhand	114.	All India Institute of Medical Sciences (AIIMS) Rishikesh	State Level
	115.	Doon Medical College, Dehradun	Medical College Level
	116.	Govt. Medical College, Haldwani, Uttarakhand	Medical College Level
West Bengal	117.	ICMR-National Institute of Cholera and Enteric Diseases, Kolkata	Regional Level
	118.	Burdwan Medical College, Burdwan	Medical College Level
	119.	Institute of Post Graduate Medical Education & Research (IPGMER), Kolkata	Medical College Level
	120.	Malda Medical College, Malda	Medical College Level
	121.	Midnapore Medical College, Midnapore, West Bengal	Medical College Level
	122.	Murshidabad Medical college, Murshidabad	Medical College Level
	123.	North Bengal Medical College, Darjeeling	Medical College Level
	124.	R G Kar Medical College, Kolkata	Medical College Level

INDICATIVE LIST OF EQUIPMENT FOR REGIONAL LEVEL VIRAL RESEARCH & DIAGNOSTIC LABORATORIES

S.No.	Name of the Equipment	Quantity
GENERAL FACILITIES		
1.	Biosafety cabinet	3
2.	Centrifuge-Refrigerated high speed	1
3.	Autoclave	1
4.	BOD Incubator	1
5.	Label Printer (Brady printer)	1
6.	Miscellaneous equipments Quick Spinner, Vortex, Ice Buckets, Timer, UV dosimeter, Magnetic stirrer, Pendrives, Materials required for Biomedical waste management etc	--
7.	Laminar air vertical flow 2 feet	2
8.	pH meter (With standard buffer)	1
9.	Desktop computers with printer (dedicated VRDL Data entry, inventory, e-mail, etc)	4
10.	Multifunctional copier/printer/scanner (for office work)	1
11.	Refrigerator (sample receiving, temporary storage)	1
12.	Microwave Oven (For agarose gels)	1
13.	Data logger (-80 °C, -20 °C, +4 °C (2 No)	4
MOLECULAR:		
1.	Laminar flow vertical 2 feet/PCR Work station	2
2.	Thermocycler	1
3.	Gel electrophoresis & documentation unit	1
4.	Refrigerated Microfuge	1
5.	Real Time RT-PCR Machine	1
6.	Micropipettes (2x0.5 ul -10ul, 3x10-200ul, 2x50-1000, 1x5-100ul)	8
7.	Miscellaneous equipment (eg:	-

	Vortex mixer, timer, floater, quickspin, UV dosimeter etc.)	
8	Next generation sequencing machine (with extended warranty)	1
9	Automated Nucleic acid extraction system	1
SEROLOGY		
1.	Water Bath	1
2.	Freezer -20	1
3.	Freezer -70 (drawers, racks, card boxes with grids inside for 2ml vials)	2
4.	ELISA Plate Washer	1
5.	ELISA Plate Reader	1
6.	Micro pipette (1-20ul X2, 10-200ul X2, 50-1000ul X1, Multichannel 50-300ul X1)	5 1
7.	Pan electronic weighing balance	1

EQUIPMENTS REQUIRED FOR TISSUE CULTURE FACILITIES		
1	CO2 Incubator	1
2	Inverted Microscope	1
3	Refrigerated high speed centrifuge	1
4	Liquid Nitrogen Container/ Trolley	1
5	Liquid Nitrogen transport container	1
6	Water Purification System	1
7	Vertical Autoclave (Steam Jacketed & Vertical)	1
8	Fluorescence Microscope (including with camera attachment)	1
9	Water Bath	1
10	Multichannel Pipette (8-channel-100 to 300 μ L)	1

Sr.No	ADDITIONAL EQUIPMENTS
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1.	PAGE and 2 D Gel Electrophoresis set up+ gel drier + Semi dry blot for Western Blot (Newly recommended)
2.	Molecular biology set up: Shaker incubator + spectrophotometer (e.g. nano drop DNA/RNA estimation) + Qubit Fluorometer/ Picogreen(Newly recommended)
3.	Bioanalyzer/ Fragment Analyzer/ Tapestation (if establishing a NGS laboratory)
4.	Confocal Microscope
5.	Flow Cytometer Analyzer
6.	Precision Workstations for bioinformatic analysis (NGS and Sanger Sequencing data)

Note:

Budget for all additional equipment will be approved only in case of strong justification in the form of specific approved research project to be conducted at VRDL.

Procurement will be made as per provisions of GFR which includes the procurement through GeM.

INDICATIVE LIST OF EQUIPMENT FOR STATE LEVEL VIRAL RESEARCH & DIAGNOSTIC LABORATORIES

S.No.	Name of the Equipment	Quantity	Indicative cost (INR)
GENERAL FACILITIES			
	Biosafety cabinet	2	800000
	Centrifuge-Refrigerated high speed	1	450000
	Autoclave	1	150000
	BOD Incubator	1	300000
	Label Printer (Brady printer)	1	150000
	Miscellaneous equipments Quick Spinner, Vortex, Ice Buckets, Timer, UV dosimeter, Magnetic stirrer, Pendrives, Materials required for Biomedical waste management etc	--	240000
	Laminar air vertical flow 2 feet	1	250000
	pH meter	1	60000
	Desktop computer with printer (dedicated VRDL Data entry, inventory, e-mail, etc)	2	140000
	Multifunctional copier/printer/scanner (for office work)	1	50000
	Refrigerator (sample receiving, temporary storage)	1	20000
	Microwave Oven (For agarose gels)	1	10000
	Data logger (-80 °C, -20 °C, +4 °C (2 No)	4	25000
MOLECULAR			
1.	PCR Cabinet/workstation	1	100000
2.	Thermocycler	1	400000
3.	Gel electrophoresis & documentation unit	1	1000000
4.	Refrigerated Microfuge	1	200000
5.	Real Time RT-PCR Machine	1	2500000

6.	Micropipettes (2x0.5 ul -10ul, 3x10-200ul, 2x50-1000, 1x5-100ul)	8	350000
7.	Miscellaneous equipment (eg: Vortex mixer, timer, floater, quickspin, UV dosimeter etc.)	-	100000
8	Next Generation Sequencing machine (with extended warranty)	1	11000000
9	Automated Nucleic acid System		
SEROLOGY			
1.	Water Bath	1	25000
2.	Freezer -20	1	200000
3.	Freezer -70 (drawers, racks, card boxes with grids inside for 2ml vials)	2	700000
4.	ELISA Plate Washer	1	250000
5.	ELISA Plate Reader	1	300000
6.	Micro pipette (1-20ul X2, 10-200ul X2, 50-1000ul X1 Multichannel 50-300ul X1)	5 1	150000
7.	Pan electronic weighing balance	1	100000
EQUIPMENTS REQUIRED FOR TISSUE CULTURE FACILITIES			
1	CO2 Incubator	1	350000
2	Inverted Microscope	1	500000
3	Refrigerated high speed centrifuge	1	450000
4	Liquid Nitrogen Container/ Trolley	1	150000
5	Liquid Nitrogen transport	1	50000

	container		
6	Water Purifi System (With Accessories)	1	550000
7	Vertical Autoclave (Steam Jacketed & Vertical)	1	300000
8	Fluorescence Microscope (including with camera attachment)	1	1000000
9	Water Bath	1	25000
11	Multichannel Pipette (8- channel-100 to 300 µL)	1	60000

Sr.No	ADDITIONAL EQUIPMENTS
1	PAGE and 2 D Gel Electrophoresis set up + gel drier + Semi dry blot for Western Blot (Newly recommended)
2	Molecular biology set up: Shaker incubator + spectrophotometer + spectrofor nano drop DNA estimation + 20000rpm refrigerated centrifuge and accessories + Table top refrigerated centrifuge and accessories (Newly recommended) +Qubit fluorometer/ PicoGreen (Newly recommended)
3	Bioanalyzer or Fragment Analyzer (for next generation sequencing facility if established)
	Total

Note:

Budget for all additional equipment will be approved only in case of strong justification in the form of specific approved research project to be conducted at VRDL.

Procurement will be made as per provisions of GFR which includes the procurement through GeM.

INDICATIVE LIST OF EQUIPMENT FOR MEDICAL COLLEGE LEVEL VIRAL RESEARCH & DIAGNOSTIC LABORATORIES

S.No.	Name of the Equipment	Quantity	Indicative cost (INR)
	GENERAL FACILITIES		
	Biosafety cabinet	2	800000
	Centrifuge-Refrigerated high speed	1	450000
	Autoclave	1	150000
	BOD Incubator	1	300000
	Label Printer (Brady printer)	1	150000
	Miscellaneous equipments Quick Spinner, Vortex, Ice Buckets, Timer, UV dosimeter, Magnetic stirrer, Pendrives, Materials required for Biomedical waste management etc		240000
	Laminar air vertical flow 2 feet	1	100000
	pH meter	1	60000
	Desktop computer with printer (dedicated VRDL Data entry, inventory, e-mail, etc)	2	140000
	Multifunctional copier/printer/scanner (for office work)	1	50000
	Refrigerator (sample receiving, temporary storage)	1	20000
	Microwave Oven (For agarose gels)	1	10000
	Data logger (-80 °C, -20 °C,	4	25000

	+4 °C (2 No)		
	Total		2495000
MOLECULAR			
1.	PCR workstation	1	100000
2.	Thermocycler	1	400000
3.	Gel electrophoresis & documentation unit	1	1000000
4.	Refrigerated Microfuge	1	200000
5.	Real Time RT-PCR Machine	1	2500000
6.	Micropipettes (2x0.5 ul - 10ul, 3x10-200ul, 2x50-1000, 1x5-100ul)	8	350000
7.	Miscellaneous equipment (eg: Vortex mixer, timer, floater, quickspin, UV dosimeter etc.)	-	100000
SEROLOGY			
1.	Water Bath	1	25000
2.	Freezer -20	1	200000
3.	Freezer -70 (drawers, racks, card boxes with grids inside for 2ml vials)	2	700000
4.	ELISA Plate Washer	1	250000
5.	ELISA Plate Reader	1	300000
6.	Micro pipette (1-20ul X2, 10-200ul X2, 50-1000ul X1 Multichannel 50-300ul X1)	6	150000
7.	Pan electronic weighing balance	1	50000

Note: Budget for all additional equipment will be approved only in case of strong justification in the form of specific approved research project to be conducted at VRDL.

Procurement will be made as per provisions of GFR which includes the procurement through GeM.

Annexure VI

Contractual Staff Structure for Regional Level VRDL to be established

Name of Post	No. of post	Emoluments (Norms for Salary) in Rs.	Remarks
Scientist C (Med.)	1	67000+ HRA	Increment as admissible as per DST norms.
Scientist C (Non-Med.)	1	67000+ HRA	Increment as admissible as per DST norms
Scientist B (Med.)	1	56000 + HRA	Increment as admissible as per DST norms
Scientist B (Non-Med.)	1	56000 + HRA	Increment as admissible as per DST norms
Research Assistant or Staff Nurse (optional)	1	35000	Consolidated without any allowances.
Lab Technician	4	20000+ HRA	Increment as admissible as per DST norms
Data Entry Operator	1	20000	Consolidated without any allowances
Multi-Tasking Staff	2	18000	Consolidated without any allowances
Total	13		

Note:

- i. The HRA will be admissible as per the classification of the city where the lab is located
- ii. Increment rate will be 5% after every 02 years as per DST norms.
- iii. If due to revised structure, any official (Contractual) gets less than what is currently being paid to him, due to any reason, the existing pay will be protected till he/she reaches the same level under the revised structure.
- iv. The DEO/MTS will not be paid less than admissible under the Minimum Wages Act.
- v. If suitable Medical Scientist do not become available even after advertising post twice, a non-medical scientist may be engaged against the post of Medical Scientist.

Contractual Staff Structure at State Level VRDL

Name of Post	No. of post	Emoluments (Norms for Salary) in Rs.	Remarks
Scientist C (Med.)	1	67000+HRA	Increment as admissible as per DST norms.
Scientist C (Non-Med.)	1	67000+HRA	Increment as admissible as per DST norms
Scientist B (Non-Med.)	1	56000 +HRA	Increment as admissible as per DST norms
Research Assistant/Staff Nurse (optional)	1	35000	Consolidated without any allowances
Lab Technician	2	20000+ HRA	Increment as admissible as per DST norms
Data Entry Operator	1	20000	Consolidated without any allowances
Multi-Tasking Staff	1	18000	Consolidated without any allowances
Total	8		

- i. Note: The HRA will be admissible as per the classification of the city where the lab is located
- ii. Increment rate will be 5% after every 02 years as per DST norms.
- iii. If due to revised structure, any official (Contractual) gets less than what is currently being paid to him, due to any reason, the existing pay will be protected till he/she reaches the same level under the revised structure.
- iv. The DEO/MTS will not be paid less than admissible under the Minimum Wages Act.
- v. If suitable Medical Scientist do not become available even after advertising post twice, a non-medical scientist may be engaged against the post of Medical Scientist.

Annexure-VIII

Contractual Staff Structure at Medical College Level VRDL

Name of Post	No. of post	Emoluments (Norms for Salary) in Rs.	Remarks
Scientist B (Med.)	1	56000 + HRA	Increment as admissible as per DST norms.
Scientist B (Non-Med.)	1	56000+ HRA	Increment as admissible as per DST norms
Research Assistant/Staff Nurse (optional)	1	35000	Consolidated without any allowances
Lab Technician	2	20000 + HRA	Increment as admissible as per DST norms
Data Entry Operator	1	20000	Consolidated without any allowances
Multi-Tasking Staff	1	18000	Consolidated without any allowances
Total	7		

Note:

- i. The HRA will be admissible as per the classification of the city where the lab is located
- ii. Increment rate will be 5% after every 02 years as per DST norms.
- iii. If due to revised structure, any official (Contractual) gets less than what is currently being paid to him, due to any reason, the existing pay will be protected till he/she reaches the same level under the revised structure.
- iv. The DEO/MTS will not be paid less than admissible under the Minimum Wages Act.
- v. If suitable Medical Scientist do not become available even after advertising post twice, a non-medical scientist may be engaged against the post of Medical Scientist.

Project Monitoring and Implementation Unit**Contractual Staff Structure at DHR:**

S.No.	Name of the Post	No. of Post	Emoluments (Norms Salary) in Rs. for	Remarks
1	Scientist C (Medical/Non-Medical)	2	67000+ HRA	Increment as admissible as per DST norms.
2	Finance Manager	1	60000	Consolidated without any allowances
3	Administrative Officer	1	40000	Consolidated without any allowances
4	Section Officer	1	35000	Consolidated without any allowances
5	Assistant	1	30000	Consolidated without any allowances
6	Data Entry Operator	1	20000	Consolidated without any allowances
7	Multi-Tasking Staff	1	18000	Consolidated without any allowances
Total		8		

Staff Structure of PMIU at ICMR

S.No.	Name of the Post	No. of Post	Emoluments (Norms Salary) in Rs. for	Remarks
1	Scientist C (Non-Medical)	1	67000+ HRA	Increment as admissible as per DST norms.
2	Section Officer	1	35000	Consolidated without any allowances
3	Data Entry Operator	1	20000	Consolidated without any allowances
4	Multi-Tasking Staff	1	18000	Consolidated without any allowances
Total		4		

Note:

- i. The HRA will be admissible as per the classification of the city where the lab is located
- ii. Increment rate will be 5% after every 02 years as per DST norms.
- iii. If due to revised structure, any official (Contractual) gets less than what is currently being paid to him, due to any reason, the existing pay will be protected till he/she reaches the same level under the revised structure.
- iv. The DEO/MTS will not be paid less than admissible under the Minimum Wages Act.
- v. If suitable Medical Scientist do not become available even after advertising post twice, a non-medical scientist may be engaged against the post of Medical Scientist.

Appendix-I

Core Staff approved for each Regional Lab Established during 12th Plan period and for 14th Finance Commission Period (2017-18 to 2019-20)

S. No.	Name of the Post (Scale of Pay)	No. of posts per Regional Lab	Total Number of posts to be created Regional Labs
1.	Research Scientist- II (Medical) (Rs.67700-208700) (Level-11) + NPA)	1	10
2.	Research Scientist- II (Non-Medical) (Rs.67700-208700) (Level-11)	1	10
3.	Research Scientist- I (Medical) Rs.56100-177500 (Level-10) + NPA	1	10
4.	Research Scientist- I (Non-Medical) Rs.56100-177500 (Level-10)	1	10
5.	Lab Technician (Rs.29200- Rs 92300) (Level-5)	4	40
Total No. of Regular Posts		8	80



GOVERNMENT OF INDIA
MINISTRY OF HEALTH & FAMILY WELFARE
DEPARTMENT OF HEALTH RESEARCH

APPLICATION FOR SUBMISSION OF PROPOSAL FOR SETTING UP OF STATE AND MEDICAL COLLEGE LEVEL VIRAL RESEARCH & DIAGNOSTIC LABORATORY (VRDL) UNDER THE SCHEME ENTITLED “ESTABLISHMENT OF A NETWORK OF LABORATORIES FOR MANAGING EPIDEMICS AND NATURAL CALAMITIES”.

Note: One hard copy and one soft copy is to be submitted.

Section A

GENERAL INFORMATION

1. Level of laboratory proposed to be set up: (State/Medical College level)
2. Name of the Medical College along with list of affiliated hospitals:
3. Names and Designations of the Principal/Dean, Principal Investigator and Co-Investigator:
 - i) Name of the Principal/Dean with contact numbers & e-mail.
 - ii) Name of the PI with contact numbers and e-mail.
 - iii) Name of the Co-investigators with contact numbers & e-mail.
4. Budget details for five years (as per the funding norms):
 - a. *Budget requested from DHR:*
 - i) Recurring:
 - Staff
 - Consumables, Contingencies & Travel/Training
 - ii) Non-recurring:
 - Equipment
 - Infrastructure Grant
 - b. *Budget commitment from the State Govt. (Staff, Space/Building and Infrastructure)*

{Kindly note that expenditure on establishment of labs at the State level and at the Medical Colleges would be shared between the Central Government and State Governments in the ratio of 75:25 (90:10 in respect of North-Eastern, Hilly States, including Sikkim and J&K)}.

5. Institution responsible for the laboratory
 Name:
Postaladdress:
- Telephone:
 email:
 FaxNo.:

Section - B

DETAILED INFORMATION ON AVAILABLE EXPERTISE AND INFRASTRUCTURE FOR ESTABLISHMENT OF STATE/MEDICAL COLLEGE LEVEL VRDL

Adequate information must be furnished in a brief but self-contained manner to enable DHR/ICMR to assess the project.

1. Major Viral Diseases prevalent in your area (give details of outbreak investigations conducted by you/others or any other published evidence for the last five years).
2. Names of other virology laboratories (Govt./Private) functional in your area.
3. What is your willingness to create a VRDL: Very high / high / moderate / low / no priority?
4. Details of the facilities in terms of equipment available at your MedicalCollege/Department:

Setup	NO	YES	for the ongoing project
ELISA			
IF			
HA/HI			
PCR			
Electrophoresis			
Protein			
DNA			

Tissue/Cell culture
 Cloning Sequencing
 Specimen storage
 -20
 -70
 LN2

5. How much dedicated space will be allocated by the Medical College / Institution for establishment of the VRDL (please provide a map of the earmarked area).

(Minimum requirement of space as per the approved scheme is: 250-300 sq.mtrs for State level Lab and 200-300 sq.mtr. for Medical College Level Lab).

6. What is the current strength of permanent Medical and Scientific staff at your Medical College/Institute? (Please mention vacant positions also).
7. What is the strength of temporary Medical and Scientific staff at your Medical College/Institute? (Senior Residents, MD/PhD students, staff working in projects).
8. Please enumerate the team of permanent staff of your Medical College that would be a part of the proposed virology lab including the PI (who will be the nodal person for this activity). Also indicate the percentage of time that each of the proposed team member would dedicate to work for the VRDL.

9. Current strength of studies: (Please tick)

	Yes	No	Trained?	Training required
Sero-diagnosis				
Molecular diagnosis				
Virus isolation				
Pathology & Pathogenesis				
Immunology of infections				
Molecular basis of viral diseases				

Vaccine
development

Diagnostic Kit
Development

10. What will be your priority areas in Virology? Please justify.
11. What are your current strengths in studies on viral infection? (high, medium, low)

Please explain in detail: (**points I-VII have to be answered by both State as well as Medical College VRDLs**)

- I. *Your access to patients in nearby hospital.*
- II. *Access to community (details of affiliated PHCs and CHCs)*
- III. *Techniques used in your lab for testing of viruses (serological as well as molecular techniques)*
- IV. *List of outbreak Investigations conducted by you till now.*
- V. *Details of any study/studies conducted by you on viral infections.*
- VI. *Logistics for sample collection and transportation to your lab*
- VII. *Proposed method of dissemination of test results.*
(**points VIII-IX to be answered by both State as well as Medical College VRDLs**)
- VIII. *Details of Virus isolation techniques being currently undertaken.*
- IX. *Details of any studies conducted by you on pathology and pathogenesis of viral diseases, immunological studies related to viral diseases, studies on viral infections using molecular techniques, development of vaccines or diagnostic kits for viruses.*

12. Which areas (in # 11 above) would you like to develop at your Institute? List in order of priority and give justification.
13. Do you think that you would be able to motivate some of the staff members to start / expand virology related work?
14. Based on your priority areas (#12 above) would you require training of your staff? Please mention the nature of training and duration.
15. What all Departments of the Medical College, State Health Departments, PHCs, CHCs

etc. do you propose liaison with for setting up the VRDL?
What is the current flow of samples to your department?

16. Nodal Officer from the State Government with full contact details.
17. Details of outbreaks investigated.
18. How will the State Govt. support in the establishment and functioning of the VRDL?

TERMS AND CONDITIONS:

- The commitments of each Medical College/State Level lab will be as per the Guidelines of the scheme on “Establishment of a network of laboratories for managing epidemics and natural calamities”.
- The aspect of availability of infrastructure, manpower, equipment and willingness to carry out research will be kept in mind while selecting and approving the site for VRDL. These aspects will be ascertained by on-site visit by the DHR/ICMR experts.
- The VRDL proposals will be scrutinized by the DHR/ICMR Expert Group before final approval.
- The approved VRDL would be expected to deal with diagnosis, outbreak investigations and research of common viruses enlisted in Appendix V of the guidelines for implementation of the scheme. Besides the common viruses enlisted, VRDLs would be expected to develop expertise for diagnosis of specific virus(es) circulating in their respective geographic areas.
- All VRDLs are expected to i) have liaisons with the State Public Health Department / IDSP / NVBDCP and essentially with the Regional and State level laboratories in their zone ii) get involved in local and regional outbreak investigations iii) encourage undertaking virology related projects for fulfillment of MD/MSc/PhD degrees and iv) subsequently develop strong ‘virology projects’ for extramural funding thereby generating adequate regional expertise in the field of virology. Each VRDL will have to submit a monthly report of the work done by them.
- The activities of the lab in terms of number of viruses tested per month, equipment procured, serological and molecular tests established for different viruses will be monitored regularly (monitorable targets of virology labs are at Appendix VI of Guidelines for implementation of the scheme).
- Each lab will be provided SOPs for testing all enlisted viruses and they will be expected to strictly adhere to the SOPs.
- The results of testing of each lab will be validated by putting adequate quality control checks. National Institute of Virology, Pune will be the apex lab for validating all results.
- Different categories of staff appointed at the VRDL will have to undergo training in different serological and molecular Viral Research & Diagnostic techniques at ICMR’s National Institute of Virology, Pune.

- A copy of the signed MoA (Appendix V of the guidelines for implementation of the scheme) will be sent to DHR/ICMR before sanctioning of the lab.
- All VRDLs will have to submit annual progress report (on completion of 10 months) to DHR/ICMR for review by the Expert Group and continuation of funding.
- Annual Utilization Certificates and Audited Statements of Expenditure incurred have to be submitted to DHR for release of funds.

DECLARATION AND ATTESTATION:

- I/We have read the terms and conditions for establishment of Viral Research & Diagnostic Laboratory and fully agree with all terms and conditions. All necessary Institutional facilities in terms of permanent staff, space and available infrastructure will be provided if the VRDL is approved for financial assistance.
- I/We agree to submit annual report to DHR for review and continuation of the VRDL.
- I/We agree to submit (online) monthly reports to DHR and NIE, Chennai.
- I/We agree to submit audited statement of accounts duly audited by the auditors as stipulated by the DHR.
- I/We agree to submit the MoA between our State Government and DHR.
- It is certified that the equipment(s) is/are not available in the Institute/Department or these are available but cannot be spared for the project

Signature of the:

a) Principal Investigator _____

b) Co-Investigator(s) _____

c) Head of the Department _____

Signature of the Head of the Institution with seal _____

Date:

MEMORANDUM OF AGREEMENT (MOA)

Whereas the Government of India, Ministry of Health & Family Welfare, Department of Health Research has formulated a scheme regarding “**SETTING UP OF NATION-WIDE NETWORK OF LABORATORIES FOR MANAGING EPIDEMICS AND NATIONAL CALAMITIES**” for implementation during the 12th Plan period; and) and that the scheme has been further extended for the 15th. Finance Commission Period from 2021-22 to 2025-26.

Whereas under the aforesaid scheme, it has been decided to set up 3-tier labs namely the Regional Labs, State level labs and Medical College labs for research cum action for timely identification of viruses and other agents causing significant morbidity at public health level and specifically agents causing epidemics and/or potential agents for bioterrorism; research for their better management and prevention; and

Whereas the details of the scheme have been already communicated to State Health Departments/ Central Government Institutes and they have expressed their willingness to establish State level/Medical College level labs in selected medical colleges with the financial assistance of Department of Health Research, Ministry of Health and Family Welfare Govt. of India.

Now therefore,

This Agreement is made at _____ this _____ Day of 20__

BETWEEN

The Government of/ Central Govt. Institute _____,
Department of _____ (name of the State
Government & the Department/ Central Govt. Institute) (herein referred to as the SG/CGI)
through its authorized signatory _____

AND

Department of Health Research, Ministry of Health & Family Welfare, Govt. of India
(hereinafter referred to as DHR) through its authorized signatory which expression unless

repugnant to the context or the meaning hereof shall include its permitted assigns and successors.

Whereas the above-mentioned parties having signed the Memorandum of Agreement (hereinafter referred to a **MoA**), which will lay the foundation for cooperation and joint action as follows:

1. COMMON OBJECTIVES

- Creating infrastructure for timely identification of viruses and other agents causing morbidity significant at public health level and specifically agents causing epidemics and/ or potential agents for bioterrorism
- Developing capacity for identification of novel and unknown viruses and other organisms and emerging/ re-emerging viral strains and develop diagnostic kits.
- Providing training to health professionals.
- Undertaking research for identification of emerging and newer genetically active/modified agents
- Continual improvement in quality systems in public health laboratories for viral diagnosis.

2. STRATEGIES

- i. Establish a network of Viral Research & Diagnostic Laboratories (VRDLs) during the 12th Plan, with associated research program for generating important evidence for quick and effective interventions for various viral infections endemic to the country.
- ii. Supplement the activities of the Integrated Disease Surveillance Project (IDSP), coordinated by NCDC, Delhi by carrying out research and development on important viruses.
- iii. Develop infrastructure and expertise for diagnosis of viruses with potential to cause outbreaks and/or which are responsible for significant disease burden.
- iv. To develop expertise for diagnosis of specific viruses circulating in their geographic area.

3. OBLIGATIONS OF THE DEPARTMENT OF HEALTH RESEARCH (DHR)

- a) Provide requisite funds in accordance with the approved parameters of the scheme for the establishment of VRDLs.
- b) Exercise overall managerial role for monitoring the project

4. OBLIGATION OF THE STATE GOVT (SG) Central Govt. Institutes (CGI)

The **SG/CGI** agrees to discharge the following responsibilities:

- Allocate a building/space of about. 250-300 sq mtr for State Level Lab and approx. 200-300 sq mtr for Medical College Level Lab), free of cost, in its existing premises for the establishment of the VRDL in consultation with the ICMR.
- Depute a mutually agreed number of its personnel to work in the VRDL.
- Depute personnel (including those belonging to the State Health Service) to undergo training/attend workshops at the VRDL.
- The cost towards establishment of State level Labs and medical college labs, will be shared between the Central Government and the concerned State Government. The cost of land/building to be provided by the State Government will be reckoned towards its contribution as State Share
- Follow the provisions of General Financial Rules for procurement of equipment, audit, review etc in respect of the funds provided under the scheme.
- Furnish the Utilization Certificate to the ICMR as per the provisions of GFRs for the funds provided under the scheme.
- The concerned State Governments/ Central Institute will take over the recurring expenditure liability after the period of five years after sanction of five year annual recurring grant.

5. FURTHER ACTS & ASSURANCE

The above parties agree to execute and deliver all acts as shall be necessary and required to carry out the provisions of this **MoA**.

6. AMENDMENT TO THE AGREEMENT

- The obligations of DHR and State Government/ Central Govt. Institute have been outlined in this MOA. However, during the operation of the MOA circumstances may arise which may call for alternations or modifications of this agreement. These alterations will be mutually discussed and agreed upon in writing.
- No amendment or change hereof or addition hereto shall be effective or binding on either of the parties hereto unless set forth in writing and executed by the respective duly authorized representative of each of the parties hereto.

7. VALIDITY & TERMINATION

This MOA shall come into effect upon signature of all the parties on the date set forth below and will in force for five years. It may be extended further in its present form or with modifications as may be agreed upon through mutual consent. This MOA can be terminated

Monitorable Targets of Labs under the scheme

Sr. No.	Targets	Regional Labs	State Labs	Medical College Labs
1.	No of samples/specimens to be tested per year	8000	4000	3000
2.	Capability to identify Noof viruses(including those prevalent in the area)	25+capcity to identify uncommon viruses as and when the need arises, specially during outbreaks.	25	25
3.	Quality assurance programme	10% of sample/results to be counter checked by apex labs ; to conduct counter check of 10% sample of state and medical college labs	10% of Result of medical college labs to be verified.Quality assurance of results to be done by superior regional labs	10% of Result of medical college labs to be verified by state level labs.
4.	Training component	Preferably 4 training programmes in a year including two for Scientist, 1 each for state level and medical college level; and one each for technical staff of state level and medicalcollege level. To train life sciences post graduates in virology for scientific as well as technical lab work.	To train 15 to 25 life sciences post graduates for Virology related lab work depending on availability and no of medical colleges in the state.	To train 10 to 15 life sciences post graduates for virology related lab work depending on population covered by the medical college.
5.	Studies/projects to be undertaken	3 studies/projects to be completed during the project period.	2 studies/projects to be completed during the project period	1 Study/project to be completed during the project period
6.	Reporting of results etc.	Regular reporting to be sent to NIE,	Regular reporting to be sent to NIE,	Regular reporting to be sent to NIE,

		Chennai and/ or apex labs regarding no of samples tested, results and types of tests conducted at quarterly intervals	Chennai and regional labs regarding no of samples tested, results and types of tests conducted at quarterly intervals	Chennai and regional and state level labs regarding no of samples tested, results and types of tests conducted at quarterly intervals
--	--	-----------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------

GFR 12 – A
 [(See Rule 238 (1))]

**FORM OF UTILIZATION CERTIFICATE FOR AUTONOMOUS BODIES OF THE
 GRANTEE ORGANIZATION**

UTILIZATION CERTIFICATE FOR THE PERIODto
 in respect of recurring/non-recurring
 GRANTS-IN-AID/SALARIES/CREATION OF CAPITAL ASSETS

1. Name of the Scheme.....
2. Whether recurring or non-recurring grants.....
3. Grants position at the beginning of the Financial year
 - (i) Cash in Hand/Bank
 - (ii) Unadjusted advances
 - (iii) Total

4. Details of grants received, expenditure incurred and closing balances: (Actual)

Unspent Balances of Grants received years [figure as at Sl. No. 3 (iii)]	Interest Earned there on	Interest deposited back to the Government	Grant received during the year			Total Available funds (1+2- 3+4)	Expenditure incurred	Closing Balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
1	2	3	4			5	6	7

Component wise utilization of grants:

Grant-in-aid-general	Grant-in-aid-Salary	Grant-in-aid-creation of capital assets	Total

Details of grants position at the end of the year

- (i) Cash in Hand/Bank
- (ii) Unadjusted Advances
- (iii) Total

Certified that I have satisfied myself that the conditions on which grants were sanctioned have been duly fulfilled/are being fulfilled and that I have exercised following checks to see that the money has been actually utilized for the purpose for which it was sanctioned:

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (vii) It has been ensured that the physical and financial performance under..... (name of the scheme has been according to the requirements, as prescribed in the guidelines issued by Govt. of India and the performance/targets achieved statement for the year to which the utilization of the fund resulted in outcomes given at Annexure – I duly enclosed.
- (viii) The utilization of the fund resulted in outcomes given at Annexure – II duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/specifications.)
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries is enclosed at Annexure –II (to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date:

Place:

Signature
Name.....
Principal Investigator

Signature
Name.....
Head of the Finance

Signature
Name.....
Head of the Organization

Signature
Name.....
Chartered Accountant

(Strike out inapplicable terms)

STATEMENT OF EXPENDITURE

Showing grants received from the Department of Health Research (DHR), GoI and the expenditure incurred during the period from to

Heads	Unspent balance brought forward from previous year	Grants received from the Department during the year	Total (2+3)	Actual expenditure incurred during the year	Balance (4-5)	Remarks, if any
(1)	(2)	(3)	(4)	(5)	(6)	(7)

Signature
Name.....
Principal Investigator

Signature
Name.....
Head of the Finance

Signature
Name.....
Head of the Organization

Signature
Name.....
Statutory Auditor/Chartered Accountant