

INSTITUTE OF SEROLOGY

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The particulars of organization, functions and duties

This Institute established in 1912 starting with Forensic Serology as its core activity branched out into different field of Serology, Immunology, VDRL , Antigen and Antisera production, STD training & research and Polio Virus Isolation from stool samples of AFP case (under the aegis of WHO) over the years. Additionally WHO National Measles Laboratory has started functioning at the Institute since 2007. Recently WHO PCR Laboratory has also been established for intratypic differentiation of Polio Virus.

The WHO Polio Laboratory, which was established at the Institute in March 1997, caters to the entire Eastern and North Eastern Regions, in addition to Jharkhand. The laboratory was further upgraded in March 2011 to incorporate the latest method of testing by PCR technology.

The Institute of Serology not only manufactures VDRL Antigen, but also produces large number of diagnostic reagents like Animal Antisera prepared against sheep, buffalo, cow, dog, fowl, pig, rabbit etc, as well as human and the blood group reagents like Coombs'sera, Anti-H lectin and Anti-A lectin. The entire requirement of VDRL Antigen Antisera of all government organizations is met by this Institute, apart from supplying to non government organizations. Even NACO has advised all its constituents to procure VDRL Antigen from our Institute because of our premium quality with low cost.

STD and HIV have become global phenomena and considering the rapid rise of these infections in India, the Regional STD Reference Laboratory for Eastern India, under NACO, was established in this Institute in 1983. We are the regional STD Co- Ordinator for Eastern & North Eastern Regions for laboratory diagnosis of STD. We also extend laboratory support to other Government & Non Government organizations. Our Institute conducts inter laboratory evaluation of VDRL tests and also Gonococcal anti bacterial susceptibility testing programme (GASP) organized by WHO. We work very closely with the STD clinics of the various medical

colleges of Kolkata and are associated with the STD intervention programme amongst the high risk population.

The Institute has involved itself with NACP Phase III and has taken up various NACP Training programmes for Medical Officers and Laboratory technicians attached to different STD & AIDS related programmes of West Bengal.

We are now in the process of starting two new activities:

1. PCR for Measles.
2. Isolation of Virus from Environmental samples in Eastern region.

Details Scenario of this Institute:

The Institute of Serology, Kolkata under Ministry of Health & Family Welfare, Govt. of India is a pioneer Institute in the country, working in the different branches of advanced serology. This Institute is a scientific research department which was established in the year 1912 and was made permanent as “Imperial Serologists Department” on 1st March, 1916. Later on it was renamed as “Department of Serologist & Chemical Examiner to the Government of India” and lately the Institute is re-named as “Institute of Serology” Kolkata by the Ministry of Health and Family Welfare, Government of India, New Delhi in the year 1996.

The Administrative control of this Institute rests with the Director General of Health Services, New Delhi, Ministry of Health & Family Welfare, and Government of India. This Institute has been recognized by the Department of Science and Technology, New Delhi as one of the Scientific Research Institute.

Since its inception, this Institute has been mainly engaged in the field of Forensic Serology. Medico-legal exhibits are received from different Forensic Science Laboratories of the country and after serological analysis of the exhibits; reports are prepared and sent to the concerned authorities. In addition to this, analysis of cases of paternity dispute and illegitimacy are also being done in this Institute.

An Antigen Production Unit for the Production of VDRL Antigen had been established in 1951 with the help of WHO & UNESCO. This was merged with this Institute in the year 1960. The production and sale of these quality reagents all over India increased significantly from the year 1972, with the advancement of technology in the fields of Bacteriology & Immunology etc.

The activities of this Institute were extended to include large scale production and supply of other diagnostic reagents like Animal Antisera prepared against sheep, buffalo, cow, dog, fowl, pig, rabbit etc. including human and the blood group reagents like Coomb's sera, Anti-H Lectin, Anti-A1 Lectin.

The Immunochemistry division of this Institute has achieved the distinction of preparing Heavy Chain specific (α , γ and μ chain specific) antisera against Human IgG, IgA & IgM fractions. This Institute has also developed the preparation of IgG specific antisera against different animal species. The Techniques of Gel filtration chromatography have been established. The quality of these reagents has been certified and approved by WHO Reference Laboratory at U.K.

In the year 1983 Regional STD Reference Laboratory for East-Zone under NACO was established in this Institute. We are conducting STD training Course for Laboratory technicians, para-medical personnel and Medical Officers. This laboratory is also conducting research activities in the field of STD regularly. Actual functioning of the Lab. started in 1992. This laboratory undertakes evaluation and standardization of serological test for Syphilis (STS) in collaboration with the Central V.D. Reference Laboratory, Institute of Venereology, Madras Medical College. STD has become very important in our National scenario specially because of the rapid spread of HIV/AIDS infection in the country. STD and AIDS is a global problem that the country is facing today. Regional STD Reference Laboratory for Eastern Zone under NACO was established in this Institute. We are the regional STD Co-ordinator for Eastern & North Eastern Region for laboratory diagnosis of Sexually Transmitted Diseases and to extend our laboratory support to other Government and Non-Government organizations. Furthermore, this laboratory conducts inter-laboratory evaluation of VDRL test with other laboratories of Kolkata. The laboratory is also working in STD intervention programme and work in collaboration with STD clinics of different medical colleges of Kolkata amongst high risk population. We also impart STD training for laboratory Technicians, conduct research activities in this field.

National Polio Laboratory has been established in this Institute with the help of WHO in the year 1997. The laboratory started functioning from March 1997. We are catering to the whole Eastern & North Eastern Region of the country in addition to the Jharkhand State.

Consequent to this a separate Virology/Tissue culture section has been set up. This laboratory is an important arm of Polio Surveillance in East and North East India. Since February

1998, our laboratory is independently processing and reporting these samples which were sent to ERC Mumbai for ITD. Now ITD is being done in our PCR Lab.

Earlier the institute was mainly meant for Forensic Serology but in the recent times it has extended its activities into various fields of Serology, Antigen Production, Immuno-chemistry, Clinical Diagnostic Laboratory, Virology & Tissue Culture Section, VDRL Production Unit, Training and Research & Development.

This pioneer Institute of the country was established in the year 1912. Initially, this Institute was established for Forensic Serology but since 1970 it started diversifying into different fields of Serology, Immunology, VDRL Antigen production, Antisera production, STD Training & Research and Polio Virus isolation from stool sample of AFP cases.

The annual report of this Institute is a compilation of all the achievements and activities of this Institute. The Institute organizes several seminars, training, workshops etc. to continuously update the knowledge and skill of Medical and Non-medical Officers and all categories of paramedical staff on the latest progress and developments taking place in various fields of Science & Technology.

The Institute is the sole manufacturer and supplier to meet the entire demand of widely required VDRL Antigen and Antisera to all Government and Non-Government organization throughout the country.

CHIEF OBJECTIVES & NEWER ACTIVITIES

- 1) Production & supply of various quality diagnostic reagents like VDRL Antigen, species specific Antisera etc. to the Government and Non-Government Institutions all over the country.
- 2) To undertake blood group serology, and to offer expert opinion about different types of Medico-legal exhibits or biological materials send to this Laboratory and to resolve paternity dispute or maternity questioned.
- 3) To establish this department as forerunner in the country in the field of Serology, Immunology, Virology and Quality Assurance with products of various Antisera, VDRL Antigen, Anti-H Lectin, Anti-A1 Lectin and Coomb's reagent.
- 4) Preparation, standardization and characterization of Heavy Chain specific antisera against human IgG, IgA and IgM respectively and IgG specific antisera against different animals.

- 5) Training of Laboratory Technicians in various fields of serology and Sexually Transmitted Diseases and imparting training in Forensic Serology to Scientists and Police personnel.
- 6) To involve our department with National & State run health projects where our laboratory's role is very useful.
- 7) Isolation of Polio Virus from stool samples of suspected Polio cases from Eastern & NE Region as part of surveillance of Pulse Polio Immunization.
- 8) ITD Laboratory for isolation of Polio Virus using PCR technique.
- 9) National Measles Laboratory along with PCR Laboratory for detection of Measles.
- 10) To provide Laboratory support to STD and other projects.

OUR PLAN

- 1) To develop Polymerase Chain Reaction (PCR) technique in the Institute, for the diagnosis of various diseases.
- 2) To start Serological tests for diagnosis of dengue.
- 3) Isolation of Polio from Environmental samples.
- 4) Detection of Measles by PCR method.

The Institute has the following infrastructure for performing specialized jobs. These are:-

1) FORENSIC SEROLOGY SECTION

- i) M.L.I
- ii) M.L.II

2) ANTIGEN PRODUCTION UNIT FOR PRODUCTION OF VDRL ANTIGEN.

3) ANTISERA PRODUCTION UNIT.

4) IMMUNOLOGY & IMMUNOCHEMISTRY DIVISION.

- i) Immunochemistry division is engaged in the Fractionation, Characterization and Standardization of different classes of Immunochemically pure human immunoglobulin fractions and to raise their monospecific antisera (α , γ and μ Heavy Chain).
- ii) To raise the IgG specific antisera against different Animal species.

5) QUALITY ASSURANCE & CONTROL AND INTER-LABORATORY EVALUATION LABORATORY.

6) STD SEROLOGY :-

- i) VDRL Laboratory
- ii) Regional STD Reference Centre.

7) REGIONAL STD TRAINING & RESEARCH CENTRE UNDER NACO

- i) Clinical Room
- ii) Microscopy Room
- iii) Regional STD Reference Laboratory

8) NATIONAL POLIO LABORATORY UNDER WHO

At the behest of National Immunization Mission, Department of Family Welfare this Institute has also taken up the assignment of Isolation of Polio Virus from stool samples of suspected AFP cases from March 1997.

9) NATIONAL MEASLES LABORATORY UNDER WHO

10) WASHING & STERILIZATION SECTION

11) ANIMAL HOUSE FACILITY

12) HINDI SECTION

13) TRAINING DIVISION

14) RECREATION CLUB

15) ADMINISTRATION WINGS:-

- A) ADMINISTRATION SECTION
- B) ACCOUNTS SECTION
- C) STORE SECTION

FORENSIC SCIENCE LABORATORY:

This is the pioneering work of the Institute since birth in 1912. Here, medicolegal cases from different State Forensic Science Laboratories and Regional Forensic Science Laboratories like Raipur, Jalpaiguri and Kolkata of West Bengal and others are received. Analysis of origin of these exhibits are determined from stained materials like clothes, weapons, tissues, hair, saliva, semen, soil and different body fluids etc. From human stained material blood group determination is performed using monoclonal antigen and Anti-H Lectin etc.

In parentage dispute/identity cases, fresh blood is analysed from the putative father, mother and disputed child.

The Medicolegal analysis reports are sent to the respective Forensic Science Laboratories through the administrative wing. These ML reports are legal evidences and accepted as expert opinion in criminal cases by the Court of Law, through out India.

PERFORMANCE OF FORENSIC SEROLOGY FROM APRIL'2010 TO MARCH'2011

Total No. of cases received	: 756
Total No. of exhibits received	: 2907
Total No. of cases Analysed & Reported	: 828
Total No. of items tested for species determination	: 3377
Total No. of exhibits examined for grouping	: 740

DIFFERENT FORENSIC EXHIBITS ANALYSED FROM APRIL'2010 TO MARCH'2011

Total No. of items tested	: 3377 Nos.
Examined for Blood grouping	: 740 Nos.
Examined for Semen	: 5 Nos.
Examined for Saliva & Other	: 3 Nos.

TOTAL REVENUE EARNED FOR THE YEAR 2010 TO 2011= ₹81,000/-

VDRL ANTIGEN PRODUCTION UNIT

From 1st April' 1960. The Antigen Production Unit was merged with the office of the Serologist & Chemical Examiner to the Government of India, when Dr. K. V. Venkataraman, was Serologist.

V.D.R.L. Antigen production unit is one of the earliest units established in this institute. This unit initiated preparation of Cardioliipin Antigen for serological test of syphilis with the assistance of WHO & UNICEF. Pilot production started in 1954. The major components of VDRL Antigen (cardioliipin & lecithin) prepared here were found to be completely satisfactory by chemical and serological tests conducted at Serum Institute, Copenhagen. In 1955 VDRL Antigen prepared at this Institute was released for marketing. To ensure the high quality of product, all the necessary quality control tests like Phosphorous estimation, Iodine estimation and Nitrogen estimation have been introduced along with serological tests.

PERFORMANCE OF VDRL ANTIGEN PRODUCTION UNIT FROM APRIL'2010 TO MARCH'2011

Total Nos. of VDRL Antigen Produced	: 4840 Ampls.
Total Sale of VDRL Antigen	: 6480 Ampls
(a) Direct Sale	: 6400 Ampls
(b) Departmental Use	: 0080 Ampls

TOTAL REVENUE EARNED FOR THE YEAR 2010 TO 2011 - ₹96,900/-

ANTISERA PRODUCTION LABORATORY INCLUDING ANIMAL HOUSE FACILITY

This Laboratory was established during the year 1960. The main function of this laboratory is to raise (produce) species specific antisera against all animals as well as human. For this purpose, an animal house facility had been operational from the very beginning i.e. in the year 1960. These antisera was mainly raised in rabbits, sometimes in gueniapigs and hens or cocks. This immuno precipitating sera were being produced or raised only in this Institute in the country. The antisera raised are against cow, sheep, goat, buffalo, dog, fowl, pig, snake, tiger, lion, monkey, rabbit etc. and human. Raising of these antisera depends on availability of blood of all these animal species.

These antisera were being marketed only by our Institute from the very beginning which earned revenue for the Govt. of India.

These antisera which are quality reagents had much demands from different central forensic science laboratories, state forensic science laboratories, medical colleges, hospitals, universities, WHO Central Research Institute, veterinary and dairy products Institutions in the country and abroad.

Since our Institute is the sole manufacturer and supplier, the demand of this quality reagents were very much from the very beginning and for the last few years its demand has been increased. So to keep pace we are thinking of making additional laboratory rooms for this laboratory which will enable us for more production to cope up with the increased demand.

Inmates of our Animal House Facility from the beginning were rabbits, guineapigs, hens, cocks, albinomice and sheep etc.

Our laboratory used to raise antisera of some rare species of animals from the very beginning when the blood were available for these rare species of animals like monkey, lion, tiger, deer, peacock etc. Sheep blood were used in WR tests.

But recently, we could not raise some of these rare species antisera for non-availability of their blood. These antisera are very much important in the sense that after confirmed test results in the serology laboratory the poachers could be awarded punishment which prevents further poaching and preservation of these endangered rare species of animals.

Hence for last 50-60 years our laboratory is indirectly helping preservation of these endangered species of animals particularly in the sanctuaries and reserved forests.

We are already in the process of upgrading our antisera raising laboratory and animal house facilities as per norms of GMP (Good Manufacturing Practice) Norms laid down by Min. of Health & Family Welfare, New Delhi.

For our Animal House Facility we are holding regular meeting of IAEC duly approved by the CPCSEA and we are following its suggestions and recommendations properly.

Finally, the importance of this laboratory since its inception are many. It is serving our nation by providing support to criminal justice system in the court of law throughout the country. Sometimes we got demand of various antisera from other neighbouring country like Bangladesh, Nepal, Srilanka which we had done in a time bound mannar.. This laboratory also plays a very vital role by indirectly preventing the poaching of forest animals, some of which are declared as endangered species of animals.

PERFORMANCE OF ANTISERA UNIT FROM APRIL 2010 TO MARCH 2011

Production of Antisera	: 11725 ml.	
Total Supply of Antisera (Outside)	: 8565 ml.	
(Departmental)	: 1070 ml.	
Total Supply of Anti-H-Lectin (Outside)	: 4544 ml.	
(Departmental)	: 80 ml.	
Supply of Coomb's Antisera	: 02 ml.	
Supply of A-1 Lectin	: 02 ml.	
TOTAL REVENUE EARNED FOR THE YEAR 2010 TO 2011=		₹3,42,530/-

IMMUNO CHEMISTRY SECTION

This section was established in the year 1972, headed by one Immunochemist. During the last 28 years this laboratory had achieved the distinction of preparing Heavy Chain specific (α , γ and μ chain specific) antisera against Human IgG, IgA & IgM fraction.

These quality reagents had been prepared from abinitio for the first time in India in this Institute.

This Institute had also achieved the preparation of IgG specific antisera against different animal species. The techniques of gel filtration chromatography have also been established in this laboratory.

Three batches each of Anti- Human IgG(γ), IgA(α) and IgM (μ) had already been approved & certified by the WHO Reference Centre, Birmingham, U.K. for the specificity and quality of these reagents.

These antisera are being widely used in the medical fields as diagnostic reagents & also help the medical fraternity in deciding the prognosis of many diseases.

In the month of January, 2004 our Institute has got the permission for marketing these quality reagents from DGHS, Ministry of Health & Family Welfare, Govt. of India, New Delhi.

Our Institute has also got demands for supplying these costly quality reagents from many Govt. hospitals & Private Hospitals throughout the country.

From the marketing of these antisera, our Institute can earn revenue. As these are costly antisera presently imported from abroad, we can minimize spending of valuable foreign exchange.

VD SEROLOGY SECTION

VD serology (veneral disease) is one of the oldest and important sections of this Institute. Since its inception, diagnosis section of veneral disease was created not only for the mere diagnosis but also for internal quality control of the VDRL antigen and standardization of VDRL Antigen produced in Antigen Production (A.P) section which is still recognized as an authentic antigen for non-specific serological test for diagnosis of STI.

Previously, Wasserman's Reaction (W.R) test was performed along with VDRL antigen test. Later, W.R test was abolished as it was time consuming 'complement fixation test' and now only VDRL antigen test is in practice.

The section provided its service to Govt. Medical colleges & hospitals of Kolkata. Antenatal cases are done regularly. Besides, many projects for diagnosis of STI in sex workers were initiated by several NGOS & Govt. aided bodies and we had supported them by providing diagnostic test results.

In spite of vigorous use of RPR (kit) in the form of rapid test, NACO still regards VDRL test is the most accurate and authentic non-specific diagnostic test as RPR often shows false positive result. NACO also directed all the Govt. health-care units to use the VDRL antigen and to avoid Rapid test.

PERFORMANCE REPORT OF VD SEROLOGY SECTION FROM APRIL 2010 TO MARCH 2011

Source	No. of Samples Received	No. of Samples Tested for VDRL	No. of Samples Positive for VDRL	Percentage of VDRL +ve
Ante-natal Clinic from CSS Kolkata.	609	609	00	0.0%
STD Clinic	2626	2626	164	6.25%

QUALITY ASSURANCE AND INTER-LABORATORY EVALUATION SECTION

VDRL Antigen, Antisera etc. are manufactured by different units of this Institute. To maintain high standard of the products, an independent quality control Unit has been functioning where samples from all fresh batches of reagents produced are sent for assessment of quality.

This section involved in:-

- 1) Standardization & Quality assessment of VDRL antigen produced in Antigen Production Unit of this Institute.
- 2) Titre determination, sterility check up and standardization of various species of Anti serums produced in Anti serum Laboratory of the Institute.
- 3) Quality assessment and standardization of Anti-A1-Lectin & Anti-H- lectin produced in BGRC section.
- 4) Quality assessment including sterility check up of Anti Human Globulin (Coomb's reagent) produced in BGRC section of the Institute.

PERFORMANCE REPORT OF VD SEROLOGY SECTION FROM APRIL'2010 TO MARCH'2011

Sl. No.	Examination Performed	No. of Batches.
1.	Standardization of Anti-H-Lectin	102 Lots.
2.	Quality Assessment of Coomb's serum	1 Lot.
3.	Standardization of species Antisera	52 Lots.
4.	Standardization of VDRL Antigen.	4 Lots.
5.	Standardization of Anti-A1-Lectin.	1 Lot.
6.	Clinical Diagnostic Test Done.	64 Lots.

BLOOD GROUP REFERENCE LABORATORY (BGRC)

This section was born bifurcating the IRQC (Immuno Research and Quality Control) 20 years back.

The section is entrusted with the following jobs :

- 1) Production and marketing of high titre Anti H Lectin.
- 2) Production and marketing of high titre Anti A1 Lectin.
- 3) Production and marketing of Coomb's reagent
- 4) Reference centre for A, B, O Blood grouping & Rh typing for antenatal cases from different government hospitals of Kolkata and other government organization stationed at Kolkata.

- 5) Actively involved in imparting training conducted by the Institute to University students, Medical and Paramedical Personnel by demonstration of tests in Forensic Serology, STD etc.

PERFORMANCE REPORT OF BGRC SECTION FROM APRIL'2010 TO MARCH'2011

- | | |
|--------------------------------------|------------|
| i) Total No. of Blood grouping cases | : 609 Nos. |
| ii) Total No. of Rh. Negative cases | : 18 Nos. |

PRODUCTION

QUANTITY

- | | |
|-----------------------------------|------------|
| iii) Anti-H-Lectin (Freeze dried) | : 4800 ml. |
| iv) Coomb's Reagent | : 02 ml. |
| v) Anti-A1-Lectin | : 22 ml. |

REGIONAL STD REFERENCE LABORATOR UNDER NACO

The Regional reference laboratory forms an integral part of the teaching cum training centre and co-operate with other Institutions. It undertakes proper evaluation and standardization of VDRL test. The Reference Laboratory also undertakes research work in the laboratory as part of STD. The laboratory also conduct teaching and training courses for the laboratory technicians working in the state run hospitals in the laboratory aspects of STDs. The training course is held for duration of 21 days in batches throughout the year.

In the year 1983 the Regional STD Reference laboratory for Eastern zone under National AIDS Control Programme was established in this Institute. This Institute acts as STD Co-ordinator of the Eastern and North Eastern Region. STD laboratory is doing wonderful work in laboratory diagnosis of Sexually transmitted disease. This Institute is extending its laboratory support to other Govt. and Non Govt. organization. Furthermore this laboratory is conducting inter laboratory evaluation of VDRL test with other Laboratories in Kolkata. This laboratory is also working in STD intervention programme in collaboration with STD clinics of different Medical Colleges of Kolkata amongst high risk population.

This Institute remains engaged in conducting STD training for laboratory Technicians, paramedical personnel and medical officers. Training course is generally conducted for 3 weeks duration. This Institute also help for MD Thesis work on STD for the students of Calcutta University.

Different project works have been undertaken by this Institute since 1993 to date.

These project works have been undertaken by this Institute with collaboration of different medical colleges, All India Institute of Hygiene and P.H and other Govt. and Non Government organizations.

PERFORMANCE REPORT OF STD LAB FROM APRIL'2010 TO MARCH'2011

Sl. No.	Laboratory Test	Nos. Tested	Nos. Positive.
1. Syphilis	VDRL	2292	118
	RPR	nt	nt
	TPHA	2115	265
2. Chlamydia	ELISA Antibody	nt	na
	ELISA Antigen	291	21
	Fluorescent Antibody	nt	na
3. Gonorrhoea	Direct Smear	391	15
	Culture	391	15
	Sensitivity	391	15
4. Hepatitis B	HBs Ag ELISA	2088	33
	Immunocromatographic Method	33	33
5. HSV	IgM ELISA	490	138
	Microscopy (MNGC)	13	7
6. Trichomonas	Wet mount & culture	567	207
7. Candida	Microscopy & Culture	567	55

TOTAL NUMBER OF TRAINING SESSIONS FROM APRIL' 2010 TO MARCH' 2011.

Training Programme.

Orientation training course for laboratory technicians in sexually transmitted disease = 2 Nos.

Total Microbiologists & Technicians trained = 45 Nos.

Workshop organized = 1 No.

Total Nos. of Technicians participated = 30 Nos.

CLINICAL DIAGNOSTIC LABORATORY :

This laboratory has been started mainly for the CGHS beneficiaries and staff of this Institute. The main aim to start this laboratory was to give a prompt investigation facility to our staff and CGHS beneficiaries as we have the technical trained man power & infrastructure.

The investigation which is done as follows:-

- (1) Hb, TC, DC, ESR
- (2) Blood for MP
- (3) Blood Chemistry:
Sugar, Urea, Uric Acid, Creatinine, Cholesterol, Triglycerides, HDL & LDL
Serum Bilirubin (Direct & Indirect)
- (4) Blood grouping A, B, O & Rh
- (5) Serological :
Widal, VDRL/TPHA,
Rheumatoid Factor
HbsAg, ELISA for Tuberculosis.
Samples for culture and sensitivity

NATIONAL POLIO LABORATORY UNDER WHO

At the behest of National Immunization Mission, Ministry of Health & Family Welfare, this Institute has taken up the assignment of Isolation of Polio Virus from Stool samples of AFP cases. National Polio Laboratory has been established in the Institute of Serology in collaboration with WHO. The laboratory started functioning from March 1997. Consequent to this a separate Virology/Tissue Culture unit has been set up. This laboratory receives stool samples of AFP cases from whole Eastern Region of India and bears 25% burden of the whole country. Since February' 98 our Laboratory is independently processing & reporting the AFP stool. After reporting the samples are sent to ERC Mumbai for ITD.

As a part of the Polio review in India, the National Polio Laboratory, Institute of Serology, Kolkata was reviewed on 18.09.1998 jointly by National & International Review Committee. The accreditation process involved proficiency test, monitoring of Laboratory performance criteria and on site review of the laboratory facilities and work practices. Based on the result of this review and the performance of the laboratory during 1998 our National Polio Laboratory

was fully accredited as a WHO National Polio Laboratory for the remainder of 1998 and for 1999. Subsequently, yearly accreditation have been received up to 2011.

The certificate of accreditation was given by Dr. Iman Mochn, Acting Chief ,Division of Expanded programme on Immunization for Regional Director. To monitor the WHO International Standards this Institute has achieved National Polio Proficiency test result with a score of 100%. The above result of WHO Polio proficiency test panel is approved and certified by WHO Polio Global specialized laboratory, RIVM, Netherland & Regional Advisor Immunization & Vaccine development for Regional Director.

Our laboratory serves whole Eastern Region of India which includes West Bengal, Sikkim, Meghalaya, Manipur, Orrisa, Nagaland, Assam, Arunachal Pradesh & Mizoram and Andaman & Nicobar.

In addition to above this Institute as per direction of Ministry of Health & F.W. & NPSU has taken the responsibility of examining the cases from Jharkhand State and Bihar.

From 1st March 2001 this laboratory has accepted this extra load of samples from Jharkhand State and Bihar.

PERFORMANCE REPORT OF NATIONAL POLIO LABORATORY FROM APRIL'2010 TOMARCH'2011

Total cases received	6469 Nos.
Total samples received	12906 Nos.
P1 Isolates	244 No.
P2 Isolates	118No.
P3 Isolates	228 No.
NPEV	1654 Nos.
Wild Virus (P1)	15 Nos
Wild Virus (P3)	13 Nos
L 20 B Positive	320 Nos.
P1 + P2	19 Nos
P1 + P3	46 Nos
P2 + P3	16 Nos
P2 + P2 + P3	6 Nos

WHO PCR LABORATORY FOR POLIO

The Intra-Typic Differentiation (ITD) unit of the National Polio Laboratory, Institute of Serology, Kolkata started its functioning towards the end of 2010, when 3 technicians and an officer were trained for the Real-Time PCR based identification of intra-typic variations of polio viruses and their subsequent Vaccine Derived Polio Virus (VDPV) screening. The training was held from 15th to 19th of November 2010 and was followed by a test run of 10 samples provided by WHO lab co-ordinator Dr. Nalini Ramamurthy. This 10 sample run was repeated 4 times according to the instructions from Dr. Ramamurthy and each test result (including amplification plots in the form of power-point presentation) was submitted to Dr. Ramamurthy for subsequent examination. This '10 sample run' tests continued from 23rd November 2010 to 18th January 2011.

Following the '10 sample run', the next step was the 'Retrospective Test'. At this stage, rRT PCR coupled VDPV tests were performed for 45 samples and test results as well as amplification plots were sent to Dr. Ramamurthy for further check and approval from them. This stage continued from 20th January 2011 to 28th January 2011.

Following the 'Retrospective Test' stage, the ITD unit of National Polio Laboratory was supplied with 10 rRT PCR and 9 VDPV 'Panel Samples'. According to their instructions, our trained technicians performed rRT PCR and VDPV tests on these samples during 15th February 2011 to 18th February 2011. These test results, as before, were sent to Dr. Ramamurthy along with power-point presentations of the amplification plots.

Following the 'Panel Sample' test, the final stage was named as 'Prospective Test' stage that continued from 23rd February 2011 to 7th April 2011. In this stage, L20B positive samples (as received from the National Polio Laboratory, Kolkata) were tested for intra-typic differentiation of polio viruses (using rRT PCR) followed by VDPV screening. The test results along with amplification plots were sent to Dr. Ramamurthy for their examination and approval. We performed 126 such samples during the period of 'Prospective Test'.

After successful completion of all these stages (10 sample run, retrospective test, panel sample run, prospective test), National Polio Laboratory, Institute of Serology, Kolkata earned the status of ITD laboratory on 8th April 2011 and currently performing successful Intra-typic differentiation and VDPV screening on received samples and reporting results to the National Polio Surveillance Program, Delhi.

The officer and 1 technician went for another training program in Mumbai during 21st March 2011 to 26th March 2011.

NATIONAL MEASLES LABORATORY UNDER WHO

In early 2007, 4 deaths occurred in south 24 Parganas district of West Bengal due to measles and hundreds were reported suffering seriously from measles in many pockets of that region. There was no laboratory diagnostic facilities in this state for measles and rubella at that time. WHO decided to evaluate the morbidity and mortality rate of the disease to provide significant help to control the situation. WHO decided to start a project work on diagnosis of measles and rubella in West Bengal and proposed the name of Institute of Serology as diagnostic centre. They tagged this project with their network of Polio diagnostic project fund so that they can use the NPSP (Polio) network for collection of samples (serum).

Institute of Serology responded solidly and positively to the proposal of WHO and vowed to take up the challenge inspite of dearth of manpower and space. The Director of the Institute motivated the staff and workers with a view to serve the people.

One officer and one Laboratory Technician were nominated to set up the section in a very small room for which they were sent to King Institute of Preventive medicine, Guindy, Chennai for necessary training on and from 10th to 14th September, 2007. WHO promised to provide diagnostic kit, instruments and reagents. With those on 2nd October, 2007. Institute of Serology could start its measles laboratory independently. NPSP began to send samples from various districts of West Bengal.

By March, 2008, this measles laboratory qualified as 'National Measles Laboratory' with its splendid performance over 'Panel Sample' sent by WHO. They were highly satisfied with the work culture and systems of this new laboratory.

Then it was very smooth running for this laboratory and very successfully it started to send reports by seven days after receiving the samples.

For upgradation of the laboratory, South East Asia Regional Office (SEARO) of WHO, Bangkok organized an orientation programme named 'Regional Training for Virologist and Technicians from Measles Laboratory Network', at Bangkok, Thailand on and from 21st to 25th July, 2008. Serologist and Officer in charge of Measles Laboratory were invited there to attend the training programme.

In this way, Institute of Serology was able to set up its 'National Measles Laboratory' within a short span of time and is carrying on its work with remarkable sincerity and dedication shown by laboratory technicians and supportive staff.

PERFORMANCE REPORT OF MEASLES LABORATORY FROM APRIL'2010 TO MARCH'2011

TEST DETAILS

Test Name	Sample Tested	Positive	Negative	Equivocal
Measles	257	160	75	22
Rubella	70	38	32	00

LIBRARY SERVICES :

Library facility is available for the faculty and staff of the Institute for day to day upgradation of their scientific knowledge. During the year the library increased its resources by purchasing reference publication, books & journals in various fields relevant to this Institute.

- i) Books : 790 Nos.
- ii) Foreign Journals : 47 Nos.
- iii) Indian Journals : 06 Nos.
- iv) WHO Chronicle : All
- v) WHO Bulletins : All

BUDGET GRANT & EXPENDITURE STATEMENT 2010 – 2011

	Budget Allocation	Actual Expenditure
Non-Plan	₹ 421,00,000/-	₹ 324,50,153/-
Plan	₹ 50,00,000/-	₹ 19,54,125/-

STD GRANT NO. 40 – DEPARTMENT OF HELATH
NATIONAL STD CONTROL PROGRAMME (PLAN)

Allocation of Fund (2010-2011) (From W.B.S.A.C.S. Kolkata)	₹ 808,000/-
Actual Expenditure (2010-2011)	₹ 723,251/-

**TOTAL REVENUE EARNED BY THE INSTITUTE OF SEROLOGY IN
THE YEAR 2010-2011**

₹ 5,20,430/-

RECREATION CLUB

Recreation Club of the Institute was started in the year 1978. All the officers and staff are members of the Club and a committee of 15 executive members is duly elected every year. Since its inception the Club is receiving matching grant every year from Ministry of Health & Family Welfare, Government of India, New Delhi.

The members of the Club participated in Central Government Employees Welfare Board Annual Sports meet, in annual drama competition organized by CGEW Board. The Club also organized annual sit and draw competition, intra office indoor games, annual cultural function and picnic from time to time for the welfare of the staff members. Library facilities with a stock of more than 1000 books in different languages are exclusively used by the Recreation Club members. This year the Club organized annual function, Rabindra Jayanti etc. The Club felicitates the new & outgoing staffs. The Club also organized the annual Indoor sports and distributed prizes to the winner.

**MEETINGS/SEMINARS/CONFERENCES/WORKSHOPS ATTENDED BY
THE FACULTY MEMBERS OF INSTITUTE OF SEROLOGY DURING THE
YEAR 2010-2011**

- 1) Meeting of the core committee, Regional STI Reference Centre in the Department of Community Medicine, Kolkata Medical College on 12-4-10.
- 2) WHO Regional consultation of Virologists from the SEAR Measles & Rubella Laboratory Network & training of Laboratory Technologists of the network, Bangkok, Thailand on 13th- 14th May 2010
- 3) Meeting of the core committee, Regional STI Reference Centre in the Department of Community Medicine, Kolkata Medical College on 19-7 -10.
- 4) One Day review meeting of Regional STD centers on 3rd Aug.2010 at NACO New Delhi.
- 5) Meeting of the core committee, Regional STI Reference Centre at Institute of Serology Kolkata on 30-8-10.

- 6) Meeting with NGO & other STI at Institute of Serology Kolkata on 3-9-10 .
- 7) Meeting on Operational Research 9-10 on 10-9-10 at Kolkata medical college.
- 8) Consultation meeting of Virologists of WHO Polio Laboratory Network in India, Lucknow (UP)19-20th Oct 2010.
- 9) Inter country Meeting of the Virologists from the SEAR Polio Laboratory Network, Kathmandu., Nepal from 30th Nov. -3rd Dec 2010.
- 10) Chairperson of Ethical committee meeting at All India Institute of Hygiene & Public Health on 22-12-10.
- 11) Meeting of the core committee, Regional STI Reference Centre at Institute of Serology Kolkata on 10-3-11.
- 12) Chairperson in one of the session of Microcon 2010 on 26-11-10. Topic- Immunology.
- 13) MICROCON 2010. 34th National conference of IAMM 26th to 28th Nov. 2010 at Swabhumi, Kolkata
- 14) APCON 2010. 59th Annual conference of Indian Association of Pathologists & microbiologists at Hyderabad from 9th to 12th Dec 2010.
- 15) Organized a Workshop on Laboratory Dignosis of STD infections for Micobiologists on 24th Nov 2010 in Microcon 2010 at Institute of Serology.

RESEARCH PROJECTS UNDER TAKEN BY FACULTY MEMBERS DURING THE YEAR 2010-2011

- 1) Comparative study on positivity of Polio and Non Polio viruses on different cell line.
- 2) Microbiological & Serological study for STD on cases of urethritis attending STD clinics of Calcutta Medical College.
- 3) Comparison of STS positivity with different serological tests for syphilis.
- 4) Determination of HBsAg positivity in students of Dental Medical College, Kolkata.
- 5) Epidemiological study on Sexually Transmitted Disease syndromes among High Risk Groups in West Bengal. Study period March-June 2010.
- 6) HIV sentinel surveillance. Study involved patients visiting Gynae department of Kolkata Medical college Hospital. Study period Oct 2010-March 2011.

- 7) A seroepidemiological study to evaluate diagnosis & management of syphilis among female sex workers registered under targeted intervention projects in West Bengal. Study period March 2011.

PAPER PRESENTED /UNDER TAKEN BY FACULTY MEMBERS DURING THE YEAR 2010-2011

- 1) Current trends of Polio & Non Polio Enteroviruses from Stool samples of acute flaccid paralysis cases in Eastern India presented in Microcon 2010.
34th National conference of IAMM 26th to 28th Nov. 2010 in Kolkata. Abstract-P185.
- 2) Prevalence of Sexually transmitted disease syndromes amongst high risk groups in West Bengal presented in Microcon 2010.
34th National conference of IAMM 26th to 28th Nov. 2010 in Kolkata. Abstract-P156
- 3) Polio & Non Polio Enteroviruses from acute flaccid paralysis cases in Eastern India during last 12 years in Indian Journal of Pathology & Microbiology Vol 53 Supplement 1 Oct 2010 (Abstract) OP 20 Page 15
- 4) Corroboration of findings in PAP Smear, Microbiological, Serological tests & molecular diagnostic methods in female sex workers in West Bengal in Indian Journal of Pathology & Microbiology Vol 53 Supplement 1 Oct 2010 (Abstract) OP 62 Page 15
- 5) Correlation of Cervical Cytology in female sex workers with microbiological tests & PCR (Abstract) in Cytocon 2010 40th Annual Conference of Indian Academy of Cytologists held in Kolkata. OP- 3. Page 114-115.

SANCTIONED STAFF STRENGTH & PRESENT POSITION OF THIS INSTITUTE (AS ON 31ST MARCH' 2011)

Serial Number	Sanctioned Strength	Present Position
A. OFFICERS		
Gr. A	7 Nos.	5 Nos.
Gr. B	2 Nos.	1 No.
Gr. B(Non-Gaz)	2 Nos.	1 No.

B. TECHNICAL STAFF		
Technical Assistant	10 Nos.	10 Nos.
Sr. Lab. Tech.	8 Nos.	8 Nos.
Laboratory Technician	18 Nos.	16 Nos. (1 Lien)
Ampoule Sealer	2 Nos.	2 Nos.
Animal Caretaker	1 No.	1 No.
Laboratory Attendant	15 Nos.	15 Nos. (1 Lien)
Packer	1 No.	1 No.
C. MINISTERIAL STAFF		
Head Clerk	1 No.	1 No.
Hindi Translator	1 No.	-
U.D.Clerk	4 Nos.	4 Nos.
L.D.Clerk	9 Nos.	3 Nos. (1 Lien)
Hindi Typist	1 No.	1 No.
Peon	4 Nos.	4 Nos. (1 Lien)
Safaiwala	4 Nos.	4 Nos.
D. REGIONAL STD REFERENCE LAB. STAFF		
Pathologist	1 No.	-
Clerk-cum-Receptionist	1 No.	-
Laboratory Technician	2 Nos.	2 Nos.
Laboratory Attendant	1 No.	1 No.
Safaikarmachari	1 No.	-
E. WHO NATIONAL POLIO LABORATORY		
Microbiologist	1 No.	1 No.
Lab. Technician	9 Nos.	9 Nos.
Lab. Attendant	2 Nos.	2 Nos.
Data Manage cum Assistant	1 No.	1 No.
Safaiwala	1 No.	1 No.

DIRECTORY OF OFFICERS AS ON JANUARY' 2012

Sl No	Name	Designation	Group (A,B,C, D)	Pay Scale	Category General/OBC/SC/ST	Education Qualification	Date of Birth	Date of appointment	Date of superannuation	Residence	Mobile	Residence
1.	Dr. Manas Kr. Chakrabarti	Addl. Serologist & Chemical Examiner (incharge)	Gr 'A', Gaz.	₹ 37400-67000 + GP ₹ 10000 +NPA	General	MBBS, DLO	1/7/58	19/12/86	30/6/18	B 6/15, Samadrita ECTP 3, Kol.-107	987474 4499	24421731
2.	Dr. P. R. Kumar.	Asstt. Serologist & Chemical Examiner	Gr 'A', Gaz.	₹ 37400-67000 + GP ₹ 10000 +NPA	SC	MBBS	3/4/62	3/12/87	30/4/22	214,Mahamayatala Gorla, Kol.-84	983132 7952	24357205
3.	Dr. Bandhan Paul.	Asstt. Serologist & Chemical Examiner	Gr 'A', Gaz.	₹ 37400-67000 + GP ₹ 8700 +NPA	General	MBBS	26/1/59	28/1/91	31/10/19	19/29,Mall Road, 1 st Floor, Flat No. 202, Kol.-80	943318 8643	25293211
4.	Dr.(Mrs.) Ishita Ghosh.	Asstt. Serologist & Chemical Examiner	Gr 'A', Gaz.	₹ 15600-39100 + GP ₹ 6600 +NPA	General	MBBS,DGO MD(Path)	19/12/72	26/3/04	31/12/32	76/3, Block-B, Bangur Avenue, Kol.-55	983062 0973	25741766
5.	Sri. Gautam Kr. Hui.	Account Officer	Gr 'B', Gaz.	₹ 9300-34800 + GP ₹ 5400	General	MBBS	12/12/71	22/7/96	31/12/31	Dinesh Pally, Purba Puthiary, Kol.-93	943354 3143	

PAY DETAILS FOR RTI IN RESPECT OF INSTITUTE OF SEROLOGY, GOVT.OF INDIA, KOLKATA AS ON 16-1-2012

Sl No.	Name of officers	Designation	Group (A,B,C,D)	PB	GP	Gross.	Category General/OBC/SC/ST
1	Dr.Manas Kumar Chakraberti	Addl,Serologist & CE	A-Gaz.	PB 4. 51410	10000	156625	General
2	Dr.Panchu Ram Kumar	Asstt.Serologist & CE	A-Gaz.	PB 4. 51410	10000	156125	SC
3	Dr.Bandhan Paul	Asstt.Serologist & CE	A-Gaz.	PB 4. 49490	8700	142553	General
4	Dr.(Mrs) Ishita Ghosh	Asstt.Serologist & CE	A-Gaz.	PB.3. 21620	6600	73874	General
5	Sri Gautam Kumar Hui	Accounts Officer	B-Gaz.	PB.2. 16930	5400	47036	General
6	Sri Subrata Bose	Sr.Tech. Assistant	B-Non-Gaz	PB.2. 17210	4600	36988	General
7	Sri K.K.Pal	Technical Assistant	C'	PB.2. 17210	4600	44221	General
8	Sri B.Mukherjee	Technical Assistant	'C'	PB.2. 16830	4600	43506	General
9	Sri P.K.Chakraborty	Technical Assistant	'C'	PB.2. 15630	4600	41250	General
10	Sri Sankar Kr.Naskar	Technical Assistant	'C'	PB.2. 14820	4600	39728	SC
11	Sri S.K.Chakraborty	Technical Assistant	'C'	PB.2. 15630	4600	41250	General
12	Sri P.K.Saha	Technical Assistant	'C'	PB.2. 15630	4600	41250	General
13	Sri Soamnath Panda	Technical Assistant	'C'	PB.2. 15230	4600	40498	General
14	Sri S.Mukherjee	Technical Assistant	'C'	PB.2. 14520	4600	39164	General

PAY DETAILS FOR RTI IN RESPECT OF INSTITUTE OF SEROLOGY, GOVT.OF INDIA, KOLKATA AS ON 16-1-2012

SI No.	Name of officers	Designation	Group (A,B,C,D)	PB	GP	Gross.	Category General/OBC/SC/ST
15	Sri S.K.SEN	Technical Assistant	'C'	PB.2. 13960	4200	37359	SC
16	Sri Sankar Dutta	Technical Assistant	'C'	PB.2. 13100	4200	35742	General
17	Sri Sujit Kr.Jana	Sr.Lab.Technician	'C'	PB.2. 13200	4200	35930	General
18	Sri T.K. Chakraborty	Sr.Lab.Technician	'C'	PB.2. 12860	4200	35291	General
19	Sri M.K.Bose	Sr.Lab.Technician	'C'	PB.2. 12860	4200	35291	SC
20	Smt.Monika Pal	Sr.Lab.Technician	'C'	PB.2. 12810	4200	35197	General
21	Smt Sutapa Das	Sr.Lab.Technician	'C'	PB.2. 12860	4200	35291	General
22	Km.Gopa Sarkar	Sr.Lab.Technician	'C'	PB.2. 12810	4200	35197	General
23	Smt.Pialy Chakraborty	Sr.Lab.Technician	'C'	PB.2. 12810	4200	35197	General
24	Sri Nirmal Ch. Murmu	Sr.Lab.Technician	'C'	PB.2. 11870	4200	28609	ST
25	Sri A.K.Bagchi	Sr.Lab.Technician	'C'	PB.2. 12810	4200	35197	General
26	Sri Dibyendu Saha	Sr.Lab.Technician	'C'	PB.2. 12810	4200	35197	General
27	Sri S.Mukherjee	Sr.Lab.Technician	'C'	PB.2. 12200	4200	34050	General
28	Sri M. Naskar	Sr.Lab.Technician	'C'	PB.2. 11870	4200	33430	SC
29	Sri N.K.MAJUMDER	Sr.Lab.Technician	'C'	PB.1. 10860	2800	28899	General
30	Sri Debabrata Nath	Sr.Lab.Technician	'C'	PB.1. 10560	2800	28335	General
31	Sri S. SIKDAR	Sr.Lab.Technician	'C'	PB.1. 10560	2800	28335	SC
32	Smt.Gita Jana	Sr.Lab.Technician	'C'	PB.1. 10560	2800	28335	General
33	Sri J.N.Kundu	Sr.Lab.Technician	'C'	PB.1. 10560	2800	28335	General
34	Sri Pankaj Kr.Mandal	Sr.Lab.Technician	'C'	PB.1. 7660	2000	21379	General
35	Sri Salil Kr.Nayek	Sr.Lab.Technician	'C'	PB.1. 7660	2000	21379	OBC
36	Sri Dipak Kr. Paul	Sr.Lab.Technician	'C'	PB.1. 6990	2000	18539	OBC
37	Km.Tanushree Biswas	Sr.Lab.Technician	'C'	PB.1. 6990	2000	18539	General
38	Sri Abhijit Chatterjee	Sr.Lab.Technician	'C'	PB.1. 6990	2000	18539	General
39	Sri Subhendu Kumar Rano	Sr.Lab.Technician	'C'	PB.1. 6990	2000	18539	OBC
40	Sri Ranjan Kr. Naskar	Ampoule Sealer	'C'	PB.1. 9340	2000	24537	SC
41	Sri Sunil Baran Dey	Ampoule Sealer	'C'	PB.1. 9290	2000	24443	General
42	Sri R.C.Hansda	Animal Caretaker	'C'	PB.1. 10610	2000	26925	ST
43	Smt. Tripti Kana Das	Head Clerk	'C'	PB.1. 11720	4200	32458	General
44	Sri D.K.Mandal	Accountant	'C'	PB.1. 11380	2800	29186	General
45	Sri Umesh Prasad	U.D.Clerk	'C'	PB.1. 10670	2800	27852	General
46	Sri Arunava Purkait	Storekeeper	'C'	PB.1. 10200	2800	26968	General

PAY DETAILS FOR RTI IN RESPECT OF INSTITUTE OF SEROLOGY, GOVT.OF INDIA, KOLKATA AS ON 16-1-2012

SI No.	Name of officers	Designation	Group (A,B,C,D)	PB	GP	Gross.	Category General/OBC/SC/ST
47	Sri Tarkeshwar Sah	U.D.Clerk	'C'	PB.1. 9580	2800	25802	ST
48	Smt.Dipanwita Chakraborty	L.D.Clerk	'C'	PB.1. 8150	2000	21554	General
49	Smt. Jhuma Singh	Hindi Typist	'C'	PB.1. 8840	1900	22719	General
50	Sri Prabir Pramanik	L.D.Clerk	'C'	PB.1. 6560	1900	16853	SC
51	Smt.Shruti Biswas	L.D.Clerk	'C'	PB.1. 6070	1900	15932	OBC
52	Sri G.M.Ash	Upgraded Gr.C		PB.1. 9290	2000	21131	General
53	Sri Hikim Murmu	Upgraded Gr.C		PB.1. 8640	2000	23296	ST
54	Sri Pradip Das	Upgraded Gr.C		PB.1. 9150	2000	24255	General
55	Sri A. Bhattacharjee	Upgraded Gr.C		PB.1. 8810	2000	23616	General
56	Sri Ashish Kumar Mondal	Upgraded Gr.C		PB.1. 8640	2000	23296	SC
57	Sri S.K. Chakraborty	Upgraded Gr.C		PB.1. 8640	2000	23296	General
58	Sri Jaydeb Saha	Upgraded Gr.C		PB.1. 8640	2000	20104	General
59	Sri N.G.Dutta	Upgraded Gr.C		PB.1. 8640	2000	23296	General
60	Sri S.K.Hazra	Upgraded Gr.C		PB.1. 9150	2000	24255	SC
61	Sri L. S. Balmiki	Upgraded Gr.C		PB.1. 9150	2000	24255	SC
62	Sri Bapi Das	Upgraded Gr.C		PB.1. 8170	1900	19204	General
63	Sri S.K.Biswas	Upgraded Gr.C		PB.1. 8000	1900	21905	SC
64	Sri Ratan Routh	Upgraded Gr.C		PB.1. 9150	2000	24255	SC
65	Sri S.S.Pal Majumder	Upgraded Gr.C		PB.1. 7900	1900	21717	General
66	Sri Santosh Ch.Mondal	Upgraded Gr.C		PB.1. 7900	1900	21027	SC
67	Sri Swarup Jana	Upgraded Gr.C		PB.1. 7900	1900	21027	General
68	Sri Sanjoy Oraj	Upgraded Gr.C		PB.1. 7900	1900	21027	ST
69	Smt.Jamuna Debi Routh	Upgraded Gr.C		PB.1. 8630	2000	22587	SC
70	Sri Prakash Routh	Upgraded Gr.C		PB.1. 8480	2000	22305	SC
71	Sri Mahesh Mullick	Upgraded Gr.C		PB.1. 8170	1900	21535	SC
72	Sri Deb Kumar Das	Upgraded Gr.C		PB.1. 7900	1900	21027	SC
73	Sri Raju Hela	Upgraded Gr.C		PB.1. 7900	1900	18087	SC
74	Sri Goutam Dey	Upgraded Gr.C		PB.1. 6970	1800	17511	General

A STATEMENT OF THE COMMITTEE

I. D.P.C./Screening Committee

1. Dr. P. R. Kumar, Asst. Serologist & C. E., Chairperson.
2. Dr. Bandhan Paul, Asst. Serologist & C. E. Member.
3. Dr. (Mrs.) Ishita Ghosh, Asstt. Serologist & C. E. Member.
4. Shri Gautam Kumar Hui, Account Officer, Member.

II. Purchase Committee

1. Dr. P. R. Kumar, Asst. Serologist & C. E., Chairperson.
2. Dr. (Mrs.) I. Ghosh, Asst. Serologist & C. E. Member.
3. Shri Gautam Kumar Hui, Account Officer. Member.

Name of CPIO	Dr.(Mrs.) Ishita Ghosh
Name of Appellate Authority	Dr. Manas Kumar Chakrabarti
Name & Address & Tel/Fax No. of Pay & Accounts Office.	Pay & Accounts Office Ministry of Health & F.W.G.O.I Kolkata, 15/1, Chowringhee Square, Kolkata-69 (033) 2248-5622 (033) 2248-6038
Name, Address and Tel/Fax No. of Vigilance Officer	Dr.P.R.Kumar 214,Mahamayatala Gorla, Kolkata 700084 (M)9831327952/03322523003