

RB/Estt.No. 34/2011

GOVERNMENT OF INDIA/BHARAT SARKAR
MINISTRY OF RAILWAYS/RAIL MANTRALAYA
(RAILWAY BOARD)

<http://www.airfindia.com>

No.E(NG)I-2006/PM10/2

New Delhi, dated 11-03-2011

The General Manager (P)
All Indian Railways and
Production Units.
(As per standard list)

Sub:- Promotion to the post of Laboratory Superintendent
Gr.III-Medical Department.

As the Railways are aware, in terms of para 165(3) (ii) of IREM, Vol.I, 1989 Edition as modified vide ACS No.128 issued under this Ministry's letter No.E(NG)II/2001/RR-1/20 dated 12.11.2001, the persons in service as on 01.08.1998 in grade Rs.3200-4900/PB-1 Rs.5200-20200 GP Rs.2000 with the then existing qualification of Matriculation with Science with or without one year's experience in Pathological or Biochemical Laboratory will also continue to be considered eligible for promotion to grade Rs.4000-6000/PB-1 Rs.5200-20200 GP Rs.2400 and Rs.4500-7000/PB-1 Rs.5200-20200 GP Rs.2800 after they have completed 10 years in each grade viz. Rs.3200-4900/ PB-1 Rs.5200-20200 GP Rs.2000 and Rs.4000-6000/ PB-1 Rs.5200-20200 GP Rs.2400. Later this was reduced to 6 years subject to their passing a trade test/practical test and are found suitable otherwise, vide ACS No.142 issued under Board's letter No.E(NG)I-2002/PM10/1 dated 02.12.2002. Similarly, persons in service as on 01.08.1998 with the then existing qualification of Matriculation with Science plus Diploma in Laboratory Technician's course and five years as Lab.Technican/Asstt.Chemist in grade Rs.4500-7000/ PB-1 Rs.5200-20200 GP Rs.2800 will also continue to be eligible for promotion by selection as Lab.Supdt. Gr.III/Chemist in the pay scale Rs.5000-8000/PB-2 Rs.9300-34800 GP Rs.4200.

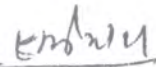
2. The staff side have raised a demand in the forum of DC-JCM for consideration of promotion of staff who are in service with the then existing qualification of Matriculation with Science with or without one year's experience in Pathological or Biochemical Laboratory as on 01.08.1998 in scale Lab.Asstt.Gr.II Rs.3200-4900/PB-1 Rs.5200-20200 GP Rs.2000, Lab.Asstt. Gr.I Rs.4000-6000 PB-1 Rs.5200-20200 GP Rs.2400, Lab.Technician/Assistant Chemist in scale Rs.4500-7000/PB-1 Rs.5200-20200 GP Rs.2800 to their respective next higher grade.

3. The matter has been considered by the Ministry of Railways and in the light of the above discussion, it has been decided that employees working as Lab.Asstt.Gr.II Rs.3200-4900/PB-1 Rs.5200-20200 GP Rs.2000, Lab.Asstt. Gr.I Rs.4000-6000 PB-1 Rs.5200-20200 GP Rs.2400, Lab.Technician/Assistant Chemist in scale Rs.4500-7000/PB-1 Rs.5200-20200 GP Rs.2800 as on 01.08.1998 recruited with the qualification of matric with science with or without one year's experience in pathological or bio-chemical laboratory may be detailed for imparting 24 weeks training as per the following procedure:-

- i) There shall be three training sessions of 8 weeks each of which 6 weeks will be at the work place and 2 weeks hands-on training at the nominated Zonal Hospital.
- ii) Each training session to be followed by a suitable evaluation programme which will be conducted by the Pathologist Incharge/Zonal Hospital.
- iii) Zonal Hospitals of Northern and Southern Railway to be the nominated Hospitals for hands-on training and evaluation programme.
- iv) There is no age bar for detailing for this training programme for Lab.Technician which is specifically designed for the existing Lab.Technician staff as on 01.08.1998 and who had been recruited with the then existing pre-requisite qualification of "Matric with science with or without one year's experience in pathological or bio-chemical laboratory".

4. The mode of training programme for Lab.Technicians may be seen from Annexure 'A'. The Lab.Technician/Asstt.Chemist in question may be considered for promotion as Lab.Suptd Gr.III (now replaced provisionally by the designation as Lab.Sudpt. in grade pay Rs.4200) based on fulfilling the criteria as laid down in training module and as per the provision contained in ACS No.128 ibid subject to availability of vacancies.

Please acknowledge receipt.


(M.K. Meena)
Dy. Director Estt.(N)
Railway Board

Encl : Annexure 'A'

Annexure 'A' to Board's letter No.E(NG)I-2006/PM10/2 dated 11-03-2011

Training Programme for Lab. Technician

- * Total duration - 24 weeks

Training Structure

- * There shall be three training sessions of 8 weeks each of which 6 weeks will be at the work place & 2 weeks hands-on training at the nominated Zonal Hospitals.
- * Each training session to be followed by a suitable evaluation programme which will be conducted by the Pathologist Incharge/Zonal Hospital.
- * Zonal Hospital of Northern & Southern Railway to be the nominated Hospitals for hands-on training & evaluation programme.

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The course content and the mode of training for the three 6 weeks training session shall be as follows-

1st 6 weeks training session

1. Anatomy And Physiology

- a. Parts of human body-Anatomical terms and position, Different types of tissues and their identification.
- b. Cardiovascular system-Circulation, Heart, Arteries, Veins, Blood-composition, function, normal counts, coagulation and anticoagulants, CSF (composition, function), Grouping, identification of blood cells.
- c. Urinary system-Kidney, Ureter, Bladder, Urethra, Prostate, Urine composition- normal and abnormal.
- d. Nutrition-Carbohydrate, Protein, Fat, Vitamins and Minerals.

2. Haematology And Blood Banking

- a. Introduction-Haematology, Collection of blood, Anticoagulants.
- b. Haemoglobin estimation
- c. RBC-Haemocytometer, calculation, abnormal forms, normal values, haematocrit, red cell indices, reticulocyte count, sickle cell preparation, anaemia.
- d. WBC-Methods, calculation, immature forms, normal values, leukaemia.
- e. Differential White cell count-Including staining procedure, eosinophil count.
- f. Erythrocyte Sedimentation Rate-Methods, values factors affecting ESR.
- g. Coagulation tests-BT, CT, PT, APTT, Clot retraction test, Platelet count.
- h. Preparation of bone marrow smears-All immature cells.
- i. CSF examination
- j. ABO blood group system
- k. Rh blood group system-Techniques of grouping.
- l. Cross matching, coombs test.
- m. Blood transfusion-Procedure and complications.
- n. Equipments-Principle & practice of equipments used in haematology & Bl. Bk.

Two theory classes per week of 1 hour duration covering the above course shall be conducted during the entire 6 weeks session. Practical working covering the course content shall be supervised and monitored by the medical officer incharge during the routine laboratory working. The posting of the trainee during this session shall be in the haematology section of the laboratory.

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Ind 6 weeks training session

1. Microbiology

- a. History-Micro organism in health and disease in man.
- b. Sterilization-Physical, chemical and mechanical methods.
- c. Bacteria-Identification, Different methods of staining, different types of cocci & bacilli.
- d. Bacterial growth and cultivation of Micro-organisms-Method, common culture and special media, antibiotic sensitivity tests.
- e. Fungi-Morphology and cultivation.
- f. Collection and processing-Sputum, urine, swabs, stool, blood, CSF and aspirations.
- g. Semen analysis
- h. Parasitology-Ova and cysts in stool.
- i. Routine Examination of stool-Physical and microscopic examination.
- j. Virology-General, HIV & Hepatitis.
- k. Equipment-Theory and practical working of equipments used in microbiology.

2. Biochemistry

- a. Proteins-Theory and practical of total protein, albumin, globulin & lipoprotein.
- b. Carbohydrate-Theory and practical of glucose.
- c. Lipids-Theory and practical of cholesterol, triglyceride, ketone bodies.
- d. Liver function tests
- e. Kidney function tests.
- f. Collection and preservation-Blood, serum, plasma, CSF.
- g. Electrolytes-Sodium, potassium and chlorides.
- h. Equipments-Principle and practical working of equipments in biochemistry.

Two theory classes per week of 1 hour duration covering the above course shall be conducted during the entire 6 weeks session. Practical working covering the course content shall be supervised and monitored by the medical officer incharge during the routine laboratory working. The posting of the trainee during this session shall be in the microbiology and biochemistry section of the laboratory

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IIIrd 6 weeks training session

1. Clinical Pathology, Serology & Immunology

- a. Urine examination-Collection&preservation,Routine,microscopic,24hrs urine examination.
- b. Stool examination
- c. Sputum examination
- d. Semen analysis
- e. Antigen and antibody reactions-Agglutination,widal,VDRL,RA test,CRP test, ASO test.
- f. Immunoassay-ELISA,Hormone&tumor marker study by different immunoassay methods.
- g. Equipments-Principal&practice of equipments used in clinical pathology and immunology.

2. Histopathology and Cytology

- a. Tissue Fixation-Different fixatives used in histopathology and cytopathology.
- b. Tissue processing-Collection,labelling,fixation,dehydration,clearing,impregnation, embedding.
- c. Section cutting-Microtome,technique of section cutting.
- d. Staining-H&E,Giemsa,PAP.
- e. Cytology-Types of specimens,preservation,Smear preparation and staining.
- f. Equipments-Principle&practice of equipments used in histopathology&cytology.

3. Quality control in laboratory practice

4. Laboratory management and planning

Two theory classes per week of 1 hour duration covering the above course shall be conducted during the entire 6 weeks session. Practical working covering the course content shall be supervised and monitored by the medical officer incharge during the routine laboratory working. The posting of the trainee during this session shall be in the respective section of the laboratory

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