GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY BOARD OF RADIATION & ISOTOPE TECHNOLOGY





PREFACE

In order to promote transparency and accountability in the working of every public authority and to empower the citizens to secure access to information under the control of each public authority, the Government of India envisaged a need for a unified, comprehensive manual pertaining to its activities.

In accordance with the guidelines issued by the Department of Administrative Reforms & Public Grievance vide DO letter no. K-11022/43/2015-ARC(Pt) dated 08.09.2016, Board of Radiation & Isotope Technology (BRIT), a constituent unit of Department of Atomic Energy has brought out this manual for information and guidance of the stakeholders and the general public and gives information about BRIT and its activities.

Efforts have been made to maintain concordance between organizational goals, procedures of work and functionaries entrusted with the responsibility of discharging them.

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Chapter 1

MISSION STATEMENT

Our Vision: (Citizen Charter)

The vision of Board of Radiation and Isotope Technology (BRIT) is to empower India through Technology, creation of more wealth and providing better of life to its citizens. This is to be achieved by making India energy independent, contributing to provision of sufficient, safe and nutritious food and better health care to our people through development and deployment of radiation technologies and their applications.

Chapter 2

DESCRIPTION OF THE ORGANISATION WITH ITS OBJECTIVES

i) <u>General</u>

Board of Radiation & Isotope Technology (BRIT), the unit of Department of Atomic Energy, is focussed on bringing the benefits of the use of radioisotope applications and radiation technology across industry, healthcare, research and agricultural sectors of the society. Harnessing the spin-offs from the mainstream programmes of DAE, such as R&D programmes at BARC and Nuclear Power plants for generating electricity by NPCIL, BRIT has independently created a separate visible area of contribution to the society.

The application of radioisotopes in healthcare, industry, agriculture and research is one of the most wide-spread peaceful uses of the nuclear sciences, next to nuclear power production. Realizing the importance of the use of the radioisotopes for societal benefits and national development, the Department of Atomic Energy has, over the years, built up adequate infrastructure for the production and applications of radioisotopes at BRIT. BRIT continues its endeavour towards providing its best services to mankind through meeting the demands of the users, be it in the fields of nuclear medicine, healthcare or towards advanced technologies such as engineering and radiation technology equipment for medical as well as industrial uses, radiation processing services, isotope applications or radioanalytical services.

Medical radioisotopes, Radiopharmaceuticals, Labelled Compounds and Nucleotides, Sealed Radiation Sources, Gamma Chambers, Blood Irradiators and Radiography Exposure Devices are some of the major products offered by BRIT.BRIT also offers radiation processing services at ISOMED and RPP Vashi, Projectconsultancy for setting up radiation processing plants in private sector, isotope application services and Radioanalytical services to its customers.

Radiopharmaceuticals Laboratory (RPL) including ^{,99}Mo/^{99m}Tc generator plant and other radiopharmaceutical,production laboratories, Labelled Compounds Laboratory and Radiation Processing Plant (RPP), Radiation Equipment Production Facility (REPF), Radioanalytical Laboratory (RAL), Isotope Applications Services (IAS) Group,Electron Beam facilities, Administration and Accounts are located at Vashi Complex in Navi Mumbai. Customer Support, Sealed Sources group, ISOMED and Medical Cyclotron Facility are located at other places in Mumbai. Besides, BRIT has six regional centres located at Bengaluru, Delhi, Dibrugarh, Hyderabad, Kolkata and Kota. The BRIT Regional Centre at Kolkata is associated with the medical cyclotron (Cyclon-30) of Variable Energy Cyclotron Centre.

(II) Our Activities:

The Organization is engaged in healthcare, agriculture, research and industry i.e. radiation based techniques for diagnosis and therapy of diseases particularly Cancer, It is also developing advanced technologies which contribute to the national prosperity. The human resource development and technicalservices being rendered by the Department/Organization have been greatly helping the Indian industry.

PRODUCTS OF BRIT:

Radiochemicals, Radiopharmaceuticals, Tritium Filled Light Sources (TFLS), Labelled Compounds and Nucleotides, Sealed Radiation Sources, Gamma Chambers, Blood Irradiator and Radiography Exposure Devices are some of themajor products offered by BRIT.



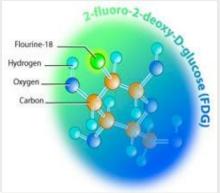
RADIOPHARM



IMMUNOASSAY



SOURCES



FDG for PET



LAB COMPDS



ROLI 2



RADIOCHEMICALS BLOOD IRRADIATOR

BI 2000



COLTECH



IND SOURCES



CTS



¹³¹I CAPSULES

BRIT offers following services to its customers :
Project Consultancy for Setting up of Radiation Processing Plant in Private Sector
Radiation Processing Services
Dosimetry services
Isotope Application Services
Radioanalytical Laboratory

Calibration Services



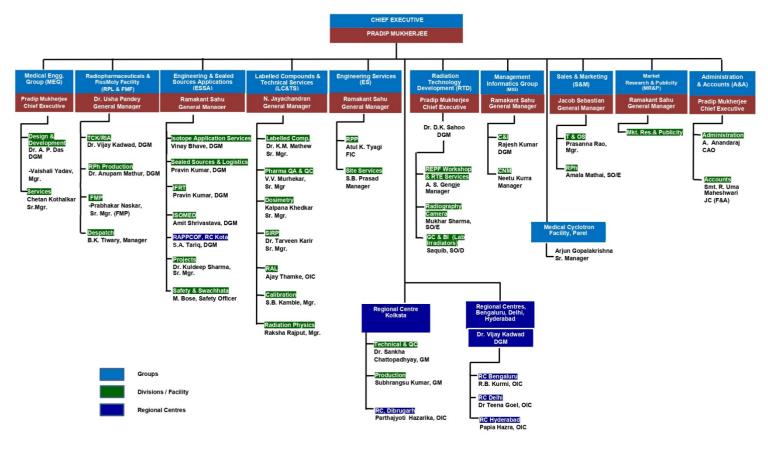
(III) Mandate:

The mandate of the Organization, on which its programs are based, covers:

- i. Reaching the fruits of R&D in the field of radioisotopes and radiation technology to the society.
- ii. Commercial exploitation of this technology without losing sight of societal obligations.
- iii. Propagation of relevant technology.
- iv. Production of radioisotopes through research reactors and carrying out radiation technology applications in the field of medicine, agriculture and industry.
- v. Interaction with Universities and academic institutions, Support to research and development projects having a bearing in DAE's programmes and international cooperation in relation to advanced areas of research.
- vi. Contributing to national Security.

<u>Chapter – 3</u>

ORGANISATION STRUCTURE OF BOARD OF RADIATION & ISOTOPE TECHNOLOGY



CHAPTER - 4

DUTIES OF CONCERNED OFFICES, OFFICERS/EMPLOYEES :

(i) <u>GENERAL</u>

Board of Radiation & Isotope Technology with its Headquarters at Vashi, Navi Mumbai, Maharashtra is functioning under the overall charge of the Chief Executive.

Duties of Chief Executive :

Duties and Responsibilities of Chief Executive, BRIT

- (ii) Overall Management of BRIT and all its Regional Centres.
- (iii) Costing of BRIT products and Services and obtaining Government Approval.
- (iv) Application of radiation technologies for societal benefits in Agriculture, Health and Industries.
- (v) Export business of Co-60 sources and other Radiopharmaceuticals/services after Government Approval.
- (vi) Planning & Review of Projects and R & D Activities.
- (vii) Seeking Government approval for planned activities and specific Projects.
- (viii) Approval of Contracts and Purchases as per delegation.
- (ix) Recruitment / Promotion of Scientific, Technical & Administrative Staff.

Chief Executive is assisted by General Managers, Chief AdministrativeOfficer

and JCFA as in-charge of various programmes/sections in BRIT as below :

Name of the incumbent official	Designation	Programme
Shri. Ramakant Sahu	GM	ESSA
Shri. Sankha Chattopadhyay	GM	MCF, Kolkata
Shr. Shubrangsu Kumar	GM	MCF, Kolkata
Dr.(Smt) Usha Pandey	GM	Radiopharmaceuticals & Fission Moly Plant
Shri N. Jayachandran	GM	LC&TS
Shri. Jacob Sebastian	GM	Sales & Marketing
Shri Anandaraj	CAO	Administration
Smt. Uma Maheswari	JCFA	Accounts

ii) <u>ROLES , RESPONSIBILITIES & FUNCTIONS UNDER DIFFERENT</u> <u>PROGRAMMES IN BRIT:</u>

A) RADIOPHARMACEUTICALS (RPhP) & FMP

Roles & Responsibilities :

- Adhere to regulatory requirements pertaining to procurement and handling of radioisotopes in Radiopharmaceuticals Laboratory and Fission Molybdenum Production Plant
- Production of radiochemicals/radiopharmaceuticals products as per guidelines approved by Radiopharmaceuticals Committee, DAE
- Maintenance of production laboratories and working areas
- Maintain stock of raw materials to ensure production and supply of radiopharmaceuticals to customers without disruptions
- Procure and maintain stock of packing materials
- Packing of radiopharmaceutical products as per procedure and dispatch of radiopharmaceuticals to customers in AERB approved packages
- Research & Development related to radiopharmaceuticals
- Research & Development related to Hot Cell gadgets and remote handling equipment and process equipment for radioactive products
- Operation & Maintenance of laboratory equipment, ventilation system, electrical & waste (radioactive & inactive) management.

Functions :

- Production & supply of specific ligands/cold kits for diagnosticapplications for Nuclear medicine centres.
- Production and supply of Radio-Immuno Assay (RIA) kits to RIA canters in India for *in vitro* diagnosis of diseases.
- Production and supply of radiopharmaceuticals / fission Mo-99/ Moly generators / ¹³¹I capsules, ¹⁷⁷Lu radiopharmaceuticals etc. for diagnostic and treatment of diseases including cancer
- Major radiopharmaceutical products produced and supplied to nuclear medicine centres all over India include ¹³¹I oral solution and capsules for management of thyroid disorders, ¹³¹I-meta iodobenzyl guanidine, ¹⁷⁷Lu radiopharmaceuticals such as ¹⁷⁷Lu-DOTATATE and

¹⁷⁷Lu-PSMA617 for cancer therapy, ¹⁵³Sm-EDTMP for bone pain palliation etc.

•

- Major radioisotopes being handled are medical grade high specific activity ⁹⁹Mo, ^{99m}Tc, ¹³¹I,¹²⁵I,³²P,¹⁷⁷Lu, ⁹⁰Y, ¹⁵³Sm
- Packed in suitable packages as per AERB guide lines.
- To provide QC services on request of importers
- Supply of radio-chemicals for R&D and industrial applications.
- Provide training for Nuclear medicine (NM) physicians, radiopharmacists and faculty from universities to propagate NM practices.
- Provide guidance to set-up nuclear medicine centres.

Duties & Responsibilities of General Manager (RPL+FMF)

- Oversee the daily operations of Radiopharmaceuticals Laboratory and Fission Molybdenum Production Plant
- Ensures strict adherence to the regulatory requirements for radioactivity handling in the Production Plants
- Ensure the production and supply of medical radioisotopes and radiopharmaceuticals as per the Standard Operation Procedures approved by Radiopharmaceuticals Committee, DAE
- Ensure that the radiopharmaceuticals supplied strictly adhere to the quality assurance criteria
- Engage with BARC and other DAE units to ensure consistent production and supply of products
- Monitor the maintenance of raw material/inventory in co-ordination with senior officers
- Plan the introduction of new radiopharmaceuticals to target diseases based on the requirements of nuclear medicine centres

Functions of General Manager (Technical & QC)

- > Officer in Charge, Regional Centre, BRIT, Kolkata
- Look after Radiopharmaceutical Lab
- Quality Control of all products from MCF, Kolkata
- New Product Development
- Publicity and Media Interaction
- > Sales/distribution of BRIT Mumbai products

B) LABELLED COMPOUNDS:

- Production, quality control and supply of various carbon-14 and tritium labelled compounds to research institutions. Various classes of compounds include 14C-labelled amino acids, carbohydrates, fatty acids, acetyl co-A, deoxy glucose, 14C-urea capsules (radiopharmaceutical), other miscellaneous compounds such as urea, thiourea, carbonate, bicarbonate etc. Important tritium labelled compounds supplied are tritiated thymidine, tritiated water, folic acid, deoxy glucose etc.
- Production and supply of tritium-filled self-luminous sources of different sizes and shapes to various defence establishments in the country.
- Dispensing, packing and supply of deuterated solvents in association with Heavy Water Board (HWB). Six solvents supplied are acetone-d6, acetonitrile-d3, benzene-d6, chloroform-d, dimethyl sulphoxide-d6 and deuterated water.

(x) Roles and Responsibilities (GM-LC&TS)

(xi) Management of the following activities

(xii)Labelled Compounds

(xiii)Production, quality control and supply of various ¹⁴C- and tritium labelled compounds, tritium-filled self-luminous sources of different sizes and shapes to various defence establishments in the country, dispensing, packing and supply of deuterated solvents in association with Heavy Water Board (HWB).

(xiv)Radioanalytical Service

(xv)Measurement & certification of man-made radionuclide content in food items, NORMS in environmental samples, Gross alpha/gross beta content in water samples, Cobalt-60 contamination in steel samples and surface radiation dose Survey of steel consignments

(xvi)Calibration of radiation measuring equipments

(xvii) Initial inquiry by users about services, formalizing quotation through BRIT eportal, providing technical information about the service as well as the procedure to be followed in availing the service from BRIT, receipt of the equipment for the calibration and with request letter, communication Interaction with users about order status, providing online calibration certificate along with the equipment, Invoice generation and payment regularisation, providing support with respect to the post service queries

(xviii) Dosimetry service for the irradiation plant

(xix)Initial inquiry by users about services, Uploading of quotation through BRIT eportal, providing technical information about the service as well as the procedure be followed in availing the service from BRIT, visit of the plant to carry out the dosimetry job, invoice generation through

eportal and payment regularisation, providing support with respect to the post service queries.

(xx)Quality control and Quality assurance

- (xxi)As per extant regulations Quality Assurance & Quality Control Department of Radiopharmaceuticals BRIT has the responsibility of testing, certifying and releasing the raw material used for Radioharmaceuticals production as well as finished products as per specifications determined and approved by Radiopharmaceutical committee (RPC) established by Department of Atomic Energy. Standard Operating Procedure based on RPC monographs are used to carry out the testing. The QA/QC department uses variety of physico-chemical and biological tests to evaluate radiopharmaceutical for its safety and efficacy. The radiopharmaceuticals product or cold kit can be dispatched to customer only after safety and efficacy certification and release by QA/QC department.
- (xxii) SIRP
- (xxiii) Maintenance of library, publication of annual reports, BRIT bulletin, physical verification of library books, arranging lectures as part of continuous education programme etc.

The functions and operations of Marketing & Services programme at BRIT:

- Single window for customer support and services including complaint redressal.
- Sales and marketing of all products and services.
- Order processing for Products & Services from Customers.
- Monitoring of Sales, Targets, Revenue receipts and Outstanding dues.
- Interaction with AERB & RPAD regarding Authorization of Transportation Packages
- Approval of Transportation Packages for Disposal of Sources,
- Costing of Products & Services and Scheduling of Supplies.
- Market Research, Advertisements & Exhibitions.
- Providing trouble shooting services to industries especially petrochemical through radioisotope applications.
- Providing radiation survey instrument calibration services.
- Providing Radioactivity test in food and other commodities and radiation survey services for export consignments of steel.

Role of GM (S & M)

- Overall management of Sales and Marketing of BRIT products and services is to propagate the application of Radiation Technology to achieve the sales target of BRIT set by the BRIT Board as well as to serve the country towards its progress and fulfilling the societal obligation
- Communication and coordination with stake holders, channel operators for the smooth functioning of sales and supply related activities
- Facilitating smooth supply of radioactive products to customers in strict compliance to the procurement NOC issued by AERB to the customer
- Exploring export market to utilise surplus radioactive raw material and earn foreign revenue
- Preparation of draft proposals for various approvals
- Participating online/offline tenders as per the requirement
- Dissemination of information through various modes to update the customer base
- Being a conduit for sensitizing the production teams and management at BRIT on the demands and needs of various nuclear medicine centres across the nation to serve them in the best possible manner
- Price fixation for new products and review of prices for existing products.
- Providing crucial information and strategies on pricing of various products to ensure profitability and customer good will.

M&S- Process of sales

The order processing of BRIT products and Services are now carried out in the online mode through BRIT poratal https://eportal.britatom.gov.in/login.

Major steps involved in the order processing are as follows:

- Online submission of documents by the prospective buyers in BRIT portal for institution registration.
- verification of registration documents submitted by BRIT
- Quotation request from the prospective buyers
- Quotation approval and release as required
- Submission of valid source procurement authorisation by the consignee
- Clarification/ resubmission/ guidance / to complete the above steps as per the requirement
- verification and approval of source procurement authorisation by BRIT
- Scheduling of products across some modules depending upon the availability of products.
- Order placement as per the schedule provided in the portal
- Payment remittance where advance payment is applicable
- Order acceptance by sales/BRIT
- Check list clearance for taking up the production (for sealed sources)
- Order acceptance and processing by BRIT production
- Quality control clearance
- Packaging and readiness of the consignment
- Releasing of address label, packing list
- Dispatch approval by sales in case of sealed sources and nucleonic gauges to monitor the submission of relevant documents and receipt of payment before the release of consignment
- Security clearance for category I source movement by Road
- Intimation to Crisis Management Group of DAE about the source movement of category I source by Road
- Intimation to AERB about the movement of category I source
- RSO clearance
- Releasing invoice
- Handing over the consignment to the logistic agent/transporter
- Transportation and delivery of the consignment at the consignee end
- Receipt of disused source generated during the source replenishment
- Generation of disposal certificate wherever applicable
- Return movement and receipt of Type B(U) source flask
- Real time tracking of the consignment
- POD uploading by the logistic agent in the portal

- Return logistics of spent generators
- Settlement of accounts

For radiography camera following additional steps are also involved

- Receipt of radiography camera for source replenishment
- Disused source removal/ Servicing of camera
- Source loading operation
- Scheduling the despatch as per the completion of Source loading operation

Isotope Application Service(IAS) involve following additional steps

- Arrangement for mob demob
- Report generation

Radiation Processing Plant(RPP) Service include following additional steps

- Receipt of the sample for irradiation
- Completion of radiation processing
- Intimation about the readiness of the processed item
- Collection of the consignment

Other services also include minor additional steps like report generation Some services required(eg. MOU service towards the installation and commissioning of Radiation Processing Plant(RPP)

Consignee can monitor entire process and their order status

<u>Services</u>

General Procedure

- Initial inquiry by users about services
- Formalizing quotation/proforma invoice
- Providing technical information about the service as well as the procedure to be followed in availing the service from BRIT
- Visit of the site to assess the nature and quantum of the job
- Communication/ Interaction with users about order status
- Execution of service
- Invoice generation and payment regularisation
- Providing support with respect to the post service queries

Radioanalytical Service

- Initial inquiry by users about services
- Formalizing quotation/proforma invoice
- Providing technical information about the service as well as the procedure to be followed in availing the service from BRIT
- Receipt of the consignment for the analysis of radioactive content along with test request
- Registration in BRIT eportal and generation of invoice through online mode.
- Communication/ Interaction with users about order status
- Providing online test certificate through BRIT eportal
- Providing support with respect to the post service queries

Calibration of radiation measuring equipments

- Initial inquiry by users about services
- Formalizing quotation through BRIT eportal
- Providing technical information about the service as well as the procedure to be followed in availing the service from BRIT
- Receipt of the equipment for the calibration and with request letter
- Communication Interaction with users about order status
- Providing online calibration certificate along with the equipment.
- Invoice generation and payment regularisation
- Providing support with respect to the post service queries

Radiation processing service

- Initial inquiry by users about services
- Formalizing quotation/proforma invoice
- Providing technical information about the service as well as the procedure to be followed in availing the service from BRIT

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- Receipt of the consignment for the irradiation
- Communication/ Interaction with users about order status
- Labelling of the packages with lot No and date
- Providing certificate along with the irradiated consignment.
- Invoice generation and payment regularisation
- Providing support with respect to the post service queries.

Dosimetry service for the irradiation plant

- Initial inquiry by users about services
- Uploading of quotation through BRIT eportal
- Providing technical information about the service as well as the procedure to be followed in availing the service from BRIT
- Visit of the plant to carry out the dosimetry job
- Invoice generation through eportal and payment regularisation
- Providing support with respect to the post service queries.

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MEDICAL CYCLOTRON FACILITY at Parel, Mumbai

The Medical Cyclotron Facility is a facility for the production of Positron Emission Tomography (PET) tracers of F-18, C-11, N-13, O-15. The facility consists of following sub parts-

- (i) Cyclotron and support equipment
- (ii) Radiochemistry synthesis laboratory
- (iii) Quality control (QC) laboratory.

The Cyclotron is a GE PET trace cyclotron capable of accelerating negative ions to bombard targets with either 16.5 MeV protons with beam current 75 μ A single port, 80 μ A dual port or 8.2 MeV deuterons with beam current of 60 μ A single port. The Cyclotron is unshielded and kept in a vault for radiation protection of handling personnel. The shielding material is boronated cement concrete having thickness of ~ 1.9 metres.

Synthesis of [F-18] Radiopharmaceuticals: ¹⁸F produced in the Cyclotron is transferred to the hot cell (Tracerlab®) through shielded Tefzel® tubing. The radionuclide is used to formulate clinically useful compounds like ¹⁸F[FDG-Fluorodeoxyglucose] (neurology, oncology and cardiology) / ¹⁸F[NaF- Sodium fluoride] (skeletal imaging), ¹⁸F[FLT-Fluorine labeled Thymidine] (tumor proliferation) / ¹⁸F[FMISO-Fluoro Misonidazole] (tumor hypoxia) / ¹⁸F [FET-Fluoro Ethyl Tyrosine] (amino acid transport). This is done using automated radiochemistry modules (computer controlled) with facility of manual intervention.

The labelled compounds are transferred to an automated dispensing unit for dispensing into glass vials as per the requirement of Nuclear Medicine Centres including a) Radiation Medicine Centre b) Tata Memorial Centre c) Hinduja Hospital d) Bombay hospital e) Nanavati Hospital, f) Med-Care, Sushrut Hospital g) SPECT Lab, Pune, h) KEM Hospital i) Lilavati Hospital j) Jupiter Hospital k)Asvini Hospital and I) Breach Candy Hospital.

Typical annual sale of ¹⁸F- radiopharmaceuticals is ~ Rs 5 Cr. Typically 70 PET scans are carried out daily with ¹⁸F-FDG and other ¹⁸F radiopharmaceuticals supplied to other hospitals. Also in adherence with the social commitments of Department of Atomic Energy, the PET services are offered, free of cost in RMC. Around 8000 batches of ¹⁸F-FDG have been produced and supplied in 22 years of continuous operation (from 2002). The medical cyclotron facility is licensed to operate till December 31, 2026.

Medical Cyclotron Facility at RCR, BRIT, VECC, Kolkata

Uninterrupted, production, quality control & quality assurance of PET radiopharmaceuticals, [18F]-FDG and [18F]-NaF, (89.07 Ci) were made before their regular supply to cancer hospitals and PET centres, in and around the eastern part of the Country.

Regional Centre, Kolkata, BRIT, jointly with VECC, Kolkata, has also introduced another important PET radiopharmaceutical product, Thallium-201 Chloride (²⁰¹Tl), in the market (First time in India). This radiopharmaceutical is considered as the gold standard for cardiac imaging and is used for the early diagnosis of heart ailments. The PET radiopharmaceutical was supplied to NH Rabindranath Tagore International Institute of Cardiac Sciences, Kolkata.

PRODUCTION GROUP – RC KOLKATA

1) Regular Production of Nuclear Medicine at Medical Cyclotron Facility (MCF), Chakgaria, Kolkata.

2) Coordination with Hospitals for getting orders for medicine, planning of production and coordinating supply logistics for sending medicine to respective hospitals.

3) Responsible to ensure Safety of MCF plant with regards to Industrial, Fire & Radiological safety.

4) Maintenance of the plant, Procurement of Consumables, Spares etc. for smooth operation of plant for Production of medicine.

5) Waste management of the plant at MCF including storage and disposal of various waste in coordination with VECC.

D) ENGINEERING PRODUCTS AND

SERVICES at BRIT :

Production quality control supply of Radiation Technology Equipment such as:

- 1.1 Radiography Camera
 - 1.1.a Remotely operated lead & tungsten shielded radiography camera COCAM-125. Capacity 125 Ci Cobalt-60
 - 1.1.b Remotely operated lead shielded radiography camera Roli 2 Capacity 65 Ci Ir-192
 - 1.1.c Remotely operated lead shielded radiography camera Roli 3 Capacity 20 Ci Ir-192
- 1.2 Laboratory Research Irradiator (Gamma Chamber)
 - 1.2.a Gamma Chamber 5000 Capacity 14000 Ci Co-60 Irradiation Volume 5 litres Weight approx. 5 Ton
 - 1.2.b Gamma Chamber 5000 Capacity 5000 Ci Co-60 Irradiation Volume 1.2 litres Weight approx. 4 Ton
- 1.3 Blood Irradiator
 - 1.3.a Blood Irradiator (BI) 2000 with 810 Ci Co-60 Capacity 2000 cc Weight 3.8 Ton
 - 1.3.b Blood Irradiator 2000 with 3050 Cs 137 Capacity 2000 cc Weight 3.8 Ton

Production and supply of sealed sources

2.1 Co-60 sealed source

Cobalt – 60 sealed source are fabricated and supplied for following applications

- 2.1.a Commercial irradiator
- 2.1.b Gamma Chamber
- 2.1.c Blood Irradiators
- 2.1.d Nucleonic Gauges
- 2.1.e Radiography Camera

Cobalt – 60 source is fabricated at RAPPCOF, Kota as well as HIRUP, BARC and RLG

2.2 Ir-192 source are supplied for Radiography camera both indigenous as well as imported cameras. Apart from above various other reference and calibration sources are also produced and supplied on demand.

Services :

Engineering Group of BRIT has the two different type of services

- 3.1 Services for customers
 - 3.1 Radiation Processing Services

Radiation Processing Plant :

Engineering Group of BRIT is operated Radiation Processing Plant for hygienization of food and allied products. Plant capacity is 1000 kCi Co-60 and throughput us 30 Ton/day

ISOMED is another plant which is operated by Engineering Group / BRIT for sterilization of medical products. Plant capacity is 1000 kCi Co-60

3.2 Services for Internal system

Engineering / BRIT is engage in maintenance of Electrical System of BRIT Vashi Complex. Apart from this upkeeping of BRIT Complex Transport Services as which part of maintenance of overall operation.

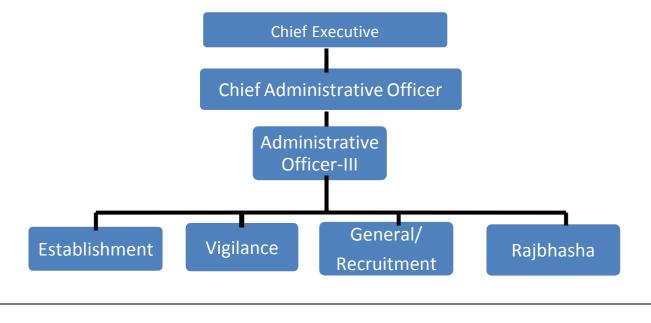
Communication system through Intranet and regular telephone line is also provided by Engineering / BRIT.

Approx. 170 employees are working in this group.

(i) <u>Role of Administration :</u>

The role of the Administration can be conceptually divided into two parts. In its large nodal role, it acts as the formulator of policy and the watch-dog of the Government for BRIT ensuring that norms, rules and regulations, as laid down by Government, are followed, in the recruitment, regulation of service conditions, posting/transfers, deputation of personnel as well as other related issues. Towards this end, Administration monitors implementation of guidelines issued by nodal agencies under Government of India viz. Department of Atomic Energy, Department of Personnel & Training etc for the benefit of staff and organization.

At a more immediate level, Administration has the direct responsibility of controlling the Administrative sections in BRIT.



(ii) <u>Responsibilities of officers :</u>

Chief Administrative Officer :

Overall In-charge of Administration Wing, which deals with activities like Recruitment, Establishment matters, General Administration, Vigilance, Welfare, Official language implementation, etc.

- To advise & assist the Chief Executive on all administrative matters and responsible for providing support services to the CE in the matters dealt with by the Adm. Wing, as per Gol/DAE rules
- Responsible for processing policy matters in subjects of Administration and liaise with DAE/DAE units /other State/Central Government offices as required.
- Monitor implementation of BRIT decisions in regard to Administrative matters.
- > Exercise financial powers within the limits permitted by CE.
- > To process the matters related to legal & statutory arising in BRIT
- To ensure good house keeping, working environment and facilities for achieving conformity of the service.
- Designated as Central Public Information Officer (CPIO) under Right to Information Act 2005.
- > He is also designated as Grievance Officer.
- > Chairs/ serves as Member in various committees of BRIT.
- > Appointing /Disciplinary Authority for Group C posts in BRIT.
- Responsible for Implementation of Official Language policy in BRIT with the guidance of OLIC and CE, with assistance of AO III & AD(OL).
- To ensure furnishing of regular returns/reports to DAE on administrative matters including vigilance matters.

Administrative Officer-III

- As In-charge of Administration Sections, supervise effective functioning of Sections dealing activities like Recruitment, Establishment matters, Pension matters, General Administration, Vigilance, Welfare, Official language implementation, etc.
- Responsible for co-ordination with GMs/OIC's of Regional Centres (Kota / Hyderabad/ Kolkata/Dibrugarh/Delhi/Bangalore) and DAE in administrative matters.
- > Co-ordinates with Government offices/ statutory authorities.
- Implementing and maintaining Quality system for Administration section and ensuring that quality policy is understood, implemented and maintained by all
- Responsible for emphasizing and implementing continuous improvement program by conducting section meetings periodically and by imparting training to staff.
- Responsible for ensuring availability of pertinent documents at all points of use and withdrawal of obsolete documents as per the retention periods.
- > Ensures maintenance and upkeep of records
- > Ensures good house keeping in their respective areas.
- > Maintenance of office equipment and award of AMCs towards this
- Responsible for budgeting and procurement of stationery, office equipment, transport, communication facilities, etc.
- > Assists Chief Administrative Officer in all administrative matters.
- Functions as Head of office
- In the absence of Chief Administrative Officer on tour or on leave, Administrative Officer – III will look after the current duties and responsibilities of Chief Administrative Officer.
- Nominated as Assistant Public Information Officer of BRIT, Vashi Complex, Navi Mumbai under Right To Information Act 2005
- Assisted by Asstt. Personnel Officer and administrative staff, who have well-rounded expertise to provide a number of services to BRIT officials.

ESTABLISHMENT SECTION

Establishment Section is one of the important sections of administration looking after the personnel service matters of all BRIT officials from their joining to retirement. It performs the following functions. This section comprises Upper Division Clerks, Assistant and headed by a Asstt. Personnel Officer. The section caters to serving employees as well as pensioners

Subjects dealt	<u>In brief</u>	Maintenenace/ Processing Time Frame
SERVICE BOOK	 Every step in official's career is recorded and each entry attested Service Book is sent to Accounts for verification of services and certificate of verification recorded in the Service Book after ensuring correctness of the entries. After completion of 18 years service, Form-24 i.e. Form of certificate of verification of service, is issued to the Government official in consultation with Accounts Officer after verification of his qualifying service In transfer cases, Certificate will be recorded for the period up to the date for which pay is drawn by the office, even if it is part of the month/year. 	Maintained in duplicate. First copy to be maintained by Head of the Office and the second copy given to the Government servant for safe custody. This is a continuous process.
CLOSURE OF PROBATION	 The Programme/Section In-charge will recommend closing of probation of the employee, and to be extended, give reasons for the same. Then vigilance clearance is obtained in respect of the employee from Vigilance Section. If all reports are in order, then the probation is closed. For Group A&B officials, the competent authority to close probation is CE, and for Group C officials, it is CAO. 	Prior to completion or one year of service on initial appointment of the employee, action to close his probation is taken
CONFIRMATION	For confirmation, a list of employees who have completed one year of service is prepared. The personal file and APAR Dossier is then placed before the Confirmation Committee, for scrutinising for confirmation of the employee in the entry grade, one year after his entry in Government Service with the approval of CE,BRIT.	 Committee meeting is convened once in six months
LEAVE	A Government servant's claim to leave is regulated by the rules in force at the time the leave is applied for and granted.	Duly sanctioned leave application is taken on record and debited to leave account
LEAVE TRAVEL CONCESSION	It is the Concession for the Government servants to meet the cost of travel performed by the Government Servants & their family members to home town / any other station in entitled class	On receipt of application, complete in all respects, sanction is issued in 5 working days. Dealing Hand->APO->AO- III/CAO

Subjects dealt	In brief	Processing / Time
		Frame
PROVIDENT FUND	The GPF Rules are applicable to those Central Government employees who have been appointed on or before 31.12.2003.	On receipt of application, complete in all respects, sanction is issued in 5 working days.
	Advances and Withdrawals from the Fund is sanctioned to the employees for the purposes and to the extend admissible under the PF Rules	Dealing Hand->APO->AO- III/CAO
Conversion of an advance into a withdrawal	A subscriber can convert an advance drawn into withdrawal on his satisfying the conditions laid down under the Rules of Advances and withdrawals.	Processes in 5 working days. Dealing Hand->APO->AO- III/CAO Within one week
Final withdrawal of accumulations in the Fund	When a subscriber quits the service, the amount standing to his credit in the Fund shall become payable to him.	Dealing Hand->APO->AO- III/CAO
DEPOSIT- LINKED INSURANCE SCHEME	In the case of death of a subscriber to PF, his/her family will be paid an amount equal to average balance maintained in his Provident Fund during 3 years (36 months) immediately preceding the month of death subject to meeting eligibility conditions.	
ADVANCES	All applications for grant of various Advances, such as HBA, conveyance advance etc. are examined to ascertain eligibility criteria as per Rules and the advances to the extent admissible granted to govt. servants.	Processed within one week, on receipt of application, complete with necessary documents
<u>TRAVELLING</u> <u>ALLOWANCE</u> (TA) ON TRANSFER	Govt. servant is entitled for TA on transfer (IN PUBLIC INTEREST) from one headquarter station in which he is employed to another such station, as per entitlement under TA Rules.	Processed within one week, on receipt of application, complete with necessary documents Dealing Hand->APO->AO- III/CAO
TA ON RETIREMENT	When the retired employee settles down in a station other than the last station of duty, he/she is entitled to Transfer TA for self and family as admissible under the Rules.	Processed within one week, on receipt of application, complete with necessary documents Dealing Hand->APO->AO- III/CAO
RETIREMENT ON SUPERANNUAT ION	A Government Servant retires on superannuation on the afternoon of last day of the month in which the superannuation falls i.e. he attains the age of 60 years. If the date of birth is the first of a month, the Government servant will retire on the afternoon of the last day of the preceding month on attaining the age of 60 years.	Two years prior to the retirement of the Government official, the work for his retirement should commence. In cases other than superannuation, action is initiated immediately on receipt of the approval of competent authority. Follow-up is made with the retiring govt. servant to obtain necessary documents for sanction of Pension and other benefits under Pension Rules and it is ensured that the sanctions are issued well within the stipulated time.
FAMILY PENSION	Family Pension is granted to eligible family members and action in Estt. Section is completed well within the stipulated time.	

VIGILANCE SECTION

This section is looking after the vigilance matters pertaining to BRIT officials. This section comprises Upper Division Clerk, Assistant and headed by a Asstt. Personnel Officer.

Subjects dealt	Processing in brief
Court /Vigilance	Monitoring/Attending Court / Vigilance cases are done and status of the
cases	cases updated to DAE.
PRIS(I)	PRIS(I) awarded to Scientific Officers, Scientific Assistants and Technical personnel are processed. Compilation of data with respect to their minimum eligibility period for promotion, 'M" component is determined for each Scientific & Technical personnel. After the recommendation by the review committee, approval is conveyed to Accounts for payment.
Annual	For Scientific & Technical staff the assessment period for APAR is from
Performance	1st July to 30 th June.
Assessment	For Administrative staff /Accounts Staff and Drivers the assessment
Report (APAR)	period for APAR is from 1 st April to 30 th March which are being done manual /online.
	Monitoring of submission of Annual Immovable Property Returns by all
IPR	staff. IPRs submitted by Group A officers to be uploaded on website.
Despatch	Centralised Despatch (receipts and distribution of official communication(dak). Despatch of dak by speed post under BNPL Agreement with Post Office. Settling bills received from the Post Office on a monthly basis.
Periodical	Reports pertaining to disciplinary/criminal cases, court matters. and
reports to DAE	other reports pertaining to vigilance section are sent to DAE periodically i.e. monthly/quarterly/half yearly/yearly basis
Issuing of	Temporary I-cards are issued to Contract workers & project trainees.
Temporary I	Issue of Temporary I-cards to employees (valid for 3 months) and issue of
cards	Pensioners ID cards
CHSS cards	Revalidation of CHSS cards of children above the age of 18 years, parents/parents-in-laws, dependent family members of the prime beneficiary. Forwarding of application for addition/deletion of beneficiaries, for issue of new CHSS cards due to loss /mutilated etc to Medical Division, BARC.
Redressal Grievances	Monitoring the grievances/queries on the Public grievances portal. Addressing the grievances /queries by collecting information from the concerned officers/sections. Uploading the reply on the portal.

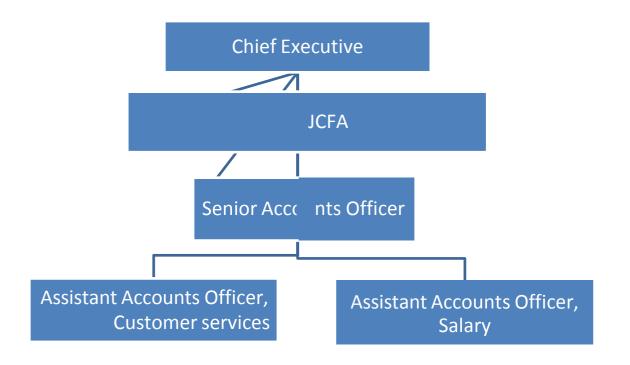
This section is looking after the procurement of items, settlement of various bills pertaining to BRIT, promotion and appointment to various posts in BRIT. This section comprises Upper Division Clerks, Assistant and headed by a Asstt. Personnel Officer.

Subjects dealt	Maintenance /Processing in brief
Recruitment	 Based on norms relevant for posts prescribed in the Department, candidates are selected after duly completing recruitment formalities like advertisement, screening, interview, Trade Test etc. Issuing offer of appointment alongwith attestation forms to selected candidates On receipt of C&A forms from the selected candidates the same are to be sent to police/IB for C&A verification On receipt of verification reports, candidate is called for medical examination for fitness. Verification of relevant documents of the selected candidates on reporting for duty Obtaining approval of the appointing authority for issue of appointment order Opening of service book for the concerned employee Making relevant entry in the reservation roster The recruitment of scientific and technical personnel is generally carried out through a well-formulated specific need based training schemes after successful completion of one-year training programme called Orientation Course for Engineering Graduates and Science Post Graduates [OCES] of BARC Training School and its affiliates Graduates in science and diploma holders in engineering are recruited through a two-year Stipendiary training scheme (Category-I). They are absorbed as Scientific Assistant-C after successful completion of the training. Similarly, candidates having qualification of HSC (science) or SSC followed by ITI certificate are also recruited under Two-years Stipendiary Training Scheme (Category-II) and they are absorbed as Technicians after successful completion of the training. Reservation orders of Govt. of India in respect of candidates belonging to SC / ST /OBC / Physically handicapped as applicable to DAE are followed in
Promotion	 recruitment and promotion All Promotions of all Scientific and Technical personnel of BARC, DAE are based on merit. The promotion scheme therefore is known as, "Merit Based Promotion Scheme". All recruitments and promotions are carried out finally by a Standing Selection Committee constituted by Competent Authority for various categories / posts / grades. Processing of promotion proposals under Merit Promotion Scheme like arranging screening committee meeting, holding trade tests/selection committee meeting, preparing proposals for creation/abolition of posts, issue of appointment orders, making necessary entry in sanction registers, etc., Making arrangements for holding DPCs as and when required. Maintaining and updating statistical information on manpower. Submitting periodical returns to DAE Maintenance of Reservation Rosters. Furnishing replies to the agencies on matters relating to recruitment For more details of norms for promotion please visit Career Digest for Recruitment and Promotion Guidelines in DAE for Scientific & Technical Personnel

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Subjects dealt	Maintenance /Processing in brief
General	> Furnishing replies to Audit queries/forwarding replies to Parliament
Administration	Questions
	> purchase and issue of stationary items as per requirement, budgetary
	proposals, processing Payment of telephone bills, Annual Maintenance
	Contract for hiring of vehicles, photocopier ,water coolers/purifiers etc.,
	procurement of rubber stamps
	Maintenance of Permanent (Imprest) Advance of Administration
	Procurement of Uniform and other livery items.
	Booking of air tickets for official tours through authorised agents viz. Balmer
	& Lawrie for officials of BRIT.
	Nominations of officials for various training programme under ATI
	Matters pertaining to Unions / Associations Dealing with representations
	from employees / Employees Associations / Unions. Grant-in-aid to BRIT
	Staff Club
	For increasing the efficiency of services, an Office Council has been set up
	under Joint Consultative Machinery scheme in BRIT. The issues pertaining to
	employees in BRIT is taken care by Office Council. Chief Executive, BRIT is
	the Chairman of the council.
Right to	Right to Information Act 2005 mandates timely response to citizen requests
Information	for government information. It is an initiative taken by Department of
	Personnel and Training to provide a-RTI Portal Gateway to the citizens for
	quick search of information on the details of first Appellate Authorities, PIOs
	etc. amongst others, besides access to RTI related information / disclosures.
	> The basic object of the Right to Information Act is to empower the
	citizens, promote transparency and accountability in the working of the
	Government, contain corruption, and make our democracy work for the
	people in real sense.
	> Chief Administrative Officer is the designated CPIO in BRIT and Chief
	Executive is the Appellate Authority in BRIT.
	Application received under RTI is processed and disposed within stipulated
	time limit of 30days/45 days, as the case may be.
	Details of RTI Applications are also uploaded on BRIT website under pro
	disclosure rule.
	Quarterly returns are also submitted within stipulated time limit

RAJBHASHA Official Language

- > The translation work from English to Hindi and vice-versa and vetting thereof.
- To acquaint the officers & staff of the BRIT with the provisions of the O.L. Act, Government rules & orders relating to Official Language and Hindi training and to help them in implementing the same
- To ensure proper compliance of the provisions of the official Languages Act and the orders pertaining to Hindi Teaching Scheme & Official Language policy in BRIT.
- to convene Official Language Implementation Committee meetings from time to time, to prepare the agenda and minutes of the meetings and to co-ordinate the action taken on the decisions taken in the meetings.
- To make suggestions from time to time for promoting the progressive use of Hindi and to keep liaison with the Department of Official language through proper channel.
- To prepare the reference and help literature to organize Hindi workshops and to assist the officers and staff in learning Hindi and using Hindi in official business of BRIT
- To render services to senior officers of BRIT with regard to the implementation of orders pertaining to Hindi.
- To perform any other duty assigned by the senior officers of BRIT related to the implementation of official language Hindi.



Duties and responsibilities of officers and subordinates in finance.

JCFA

- > Advises Chief Executive in matters related to finance
- > Sending proposals for concurrence of IFA.
- > Financial concurrence for all proposals of work and other proposals of BRIT
- Attending various meetings n the capacity of JCFAas well as a representative of IFA
- Preparation of budget documents, monitoring of expenditure ,replies to audit etc.

Senior Accounts Officer / Pay & Accts Officer

- > Responsible for all payments & its accounting and receipts.
- > Giving inputs for preparation of budget.
- Vetting proposals, attending various meetings, submission of all weekly, monthly, quarterly reports to Pr. AO, DAE
- Expenditure control and authorization of pension payment order (PPO) & retirement benefits
- > Attending to audit & preparing replies to audit etc.

ACCOUNTS - SALARY SECTION

Work related to drawal of salary and other allowances employees and their verification of documents and calculation for Income tax purpose, service verification and preparation of pension papers, other retirement benefits, filing of all returns. This section comprises Upper Division Clerks, Assistant Accountant and headed by Assistant Accounts Officer. The section caters to serving employees as well as pensioners

- Drawal of all payments including salary as per sanction received,
- payment of advances and its settlement,
- > maintenance of DDR balances, payment of retirement benefits.
- tender opening, signing of invoices etc, preparation of receipt pension budget,
- preparation of all weekly, monthly, quarterly returns
- preparation, verification of income tax calculation and uploading its details in ACES website,
- checking of service verification and pension papers.
- Acceptance of receipt, entry into ROV, preparation challan, credit to bank & keep tap of its realization,
- Return of cheques/DD's if not realised, liaison with bank, preparation of MIS report
- preparation of monthly / preparation of receipt budget quarterly returns to Principal Accounts Office, input to COMPACT, uploading of pension documents. Preparation of Pay & Allowance report.
- Payment of TA/LTC advance as per sanctions and their settlement, passing of all contingency bills and airway bills, maintenance of registers, submission of monthly returns and passing of entertainment bills
- Maintenance of DDR balances and its reconciliations, maintenance of broadsheets, payment of loans and advances and its recovery, maintenance of GPF/CPF ledger, issue of annual slip and closing of accounts. Maintenance of NPS account and its uploads.

- Revision of PPO's already issued, e-revision and its uploads, service verification of old cases pending about three decades, COMPACT entries and its uploads.
- Passing of medical bills both retired and existing employees, collection of data and maintainence of excise records. Uploading the same in CBEC website after due validation. Passing of imprest and temporary advances and its adjustments, work related to GST.
- Passing of works bills, fabrications bills and contingent bills. Compilation of accounts, COMPACT enteries and its consolidation. Maintainence of contractors income tax details and its upload in 24Q.
- > All advances are monitored for recovery/repayment/adjustment
- Pension cases are forwarded to CPAO atleast one month in advance from the month of retirement.
- Register of valuables are closed monthly.
- > Cheque books accounts & receipt book accounts are maintained.
- Temporary advance register is monitored to watch the settlement within 15 days from the drawal of the advance.
- > Monthly account and related documents are submitted to PrAO, DAE.
- > Quarterly pay & allowance report is submitted to Pay Research Unit, Delhi.
- Progressive expd status for the financial year is provided to authorities as and when required.
- Appropriation account, saving note, action taken note are prepared annually and forwarded to PrAO, DAE.
- Form no. 16 showing the summary of Gross income and income tax deducted at source is given to each employee at the end of the financial year.
- PF slips showing up to date GPF/CPF balances are given to each employee at the end of financial year.

Asst. Accounts Officer (Customer Services)

Invoice signing, Acceptance of receipts & its adjustments, remittance of receipts into bank, watching realization, pursue the customers for payments, attending to customers queries, preparation of monthly MIS reports, responding to audit, correspondence with banks.

- Signing of invoices, attending to customer queries, sending reminders, review of customer accounts, maintaining customer records after giving due credit to the money received.
- Maintenance of Service tax records
- Drawal of cheque/cash against bills received, collection & remittance, distribution of cash and issuance of receipt for the money received. Maintenance of cheque book, cash book, receipt book, and its daily closing

Chapter 5

Act, Rule & Regulation pertaining to BRIT

Atomic Energy Act, Rules and Notifications

- > The Atomic Energy Act, 1962
- > Atomic Energy (Arbitration Procedure) Rules, 1983
- Atomic Energy (Working of the mines, minerals and handling of prescribed substances) Rules, 1984
- Notification (July 15, 2005): w.r.t Rule 13 of Atomic Energy (Working of the mines, minerals and handling of prescribed sustances) Rules, 1984
- > Atomic Energy (Safe disposal of radioactive wastes) Rules, 1987
- > Atomic Energy (Factories) Rules, 1996
- Atomic Energy (Radiation Protection) Rules, 2004
- Notification on Schedule of prescribed substances under Atomic Energy Act, 1962 (January 20, 2006)
- Notification: Guidelines for Nuclear Transfers (Exports) (February 1, 2006)
- Civil liability for Nuclear Damage Act
- Notification of coming into force of Civil Liability for Nuclear Damage Act 2010
- > Notification of Civil Liability for Nuclear Damage Rules 2011
- Atomic Energy Radiation Processing of food and allied products rules 2012
- Career Digest of Scientific and Technical Personnel
- > DAE Recruitment Rules for Administration and Accounts Personnel
- > DAE Recruitment and Promotion guidelines for Auxiliary Personnel
- Guidelines for co-operation with other countries regarding peaceful uses for Atomic Energy(English Version)
- Amendment to para 8 on guidelines for co-operation with other countries regarding peaceful uses for Atomic Energy (April 2013)

> Rules, Regulations, Instructions, Manual and Records for Discharging

Administrative, Personnel & Financial Functions

Being an organisation under Government of India, the Institute follows all such rules, regulations, instructions and manual issued by the concerned departments of government from time to time and applicable to it such as:

Central Secretariat Manual of Office Procedure Notes on Office Procedure General Financial Rules Delegation of Financial Power Rules Central Civil Service (Pension) Rules Central Civil Service (Leave) Rules Central Civil Service (Leave Travel Concession) Rules Central Civil Service (Conduct) Rules Central Civil Service (Conduct) Rules Central Civil Service (Classification, Control and Appeal) Rules Fundamental Rules and Supplementary Rules General Provident Funds Rules Instructions issued by the Ministry of Finance, Ministry of Health & Family Welfare and Ministry of Personnel, Public Grievances and Pensions in respect of establishment and administration matters CS (MA) Rules

CHAPTER - 6

GRIEVANCE REDRESSAL

Grievance Redressal is a management- and governance-related process and primarily covers the receipt and processing of complaints and a wider definition includes actions taken on any issue raised by them to avail services more effectively.

BRIT supports the right of every employee to lodge a grievance with their superiors, if they believe a decision, behaviour or action affecting their employment is unfair. An employee may raise a grievance about any performance improvement action taken against them.

We aim to resolve problems and grievances promptly and as close to the source as possible. The grievances that are misconceived, vexatious, and lacking substance may result in disciplinary action being taken against the employee lodging the grievance. Grievance redressal for citizen is also implemented in BRIT in the form of RTI.

Mechanism available for grievance redressal:

- (i) Liaison cell/ special cell : to ensure prompt disposal of the grievance of SC/ST employees, ensure due compliance of the orders of reservation
- (ii) Nodal officer for the welfare of Pensioners
- (iii) Regional office council under the Joint Consultative Mechanism to consider issues concerning the employees in general
- (iv) Right to Information Act Appellate Authority (1), Central Public Information Officer (CPIO) (1), Assistant Public Information officers (APIO) – (7)
- (v) Grievance Officer to look into complaints/grievances of employees in BRIT
- (vi) Centralised Public Grievance Redress and Monitoring System (CPGRAMS) - Grievances of complainant are monitored and disposed without delay.