

**भारतीय मानक ब्यूरो**  
**BUREAU OF INDIAN STANDARDS**  
**Standards Coordination and Monitoring Department**

Ref: SCMD/DISCIPLINEWISE WORKSHOP

16 August 2024

Subject: Discipline wise Workshops for Technical Sessions to be delivered at MoU Institutes

This is with reference to the discipline wise technical sessions to be conducted by BIS faculty at MoU Institutes. The learning material/presentations for the sessions have been prepared by officers of relevant disciplines as mentioned in the subject allotment sheet (Annexure-I).

These sessions aim at supplementing the knowledge of students w.r.t. relevant standards in the identified subject areas covered in course curriculum of various technical disciplines as mentioned in the plan.

As decided by the CA, BIS officers of relevant disciplines are to be utilized as faculty for delivering the sessions and training of resource persons. To ensure that all officers have a common understanding on the subjects, the learning material/presentations and the expected learning outcomes of the sessions, **Discipline wise workshops** have been planned as per schedule mentioned below.

Discipline	Dates	Venue
Mechanical Engineering	22 Aug 2024	Auditorium, HQs
Metallurgy	22 Aug 2024	Lal C Verman Hall, HQs
Chemistry and Chemical Engineering Engineering	27 Aug 2024	Auditorium, HQs
Civil Engineering	29 Aug 2024	Auditorium, HQs
Electrical Engineering	02 Sep 2024	Lal C Verman Hall, HQs
Electronics and Computer Engineering	17 Sep 2024	Auditorium, HQs
Food and Agriculture	18 Sep 2024	Auditorium, HQs


The timings for workshop are 0900 h - 1800 h.

The discipline wise list of officers nominated to attend the workshops is given at Annexure-II. All nominated officers are requested to attend the workshops as per the schedule.

Officers who have prepared the learning material/presentations are requested to prepare for imparting training on the presentations to officers during the workshop.

Concerned TDs are requested to kindly coordinate the sessions related to their discipline.

HSCMD  
DDG (SCM, MSC IR & TIS)  
ROs/BOs/Labs/All Departments at HQ

  
Phalendra Kumar  
Sc-C, SCMD

  
16/8/2024

**Civil Engineering**

Sl No.	Topic	No. of hours	No. of sessions	Brief contents of the lecture	Officer (for preparation of ppt)
1	Building materials	4	2	Standards on different types of building materials like 1. cement, 2. aggregates, 3. glass and glazing, 4. Reinforcing and prestressing steel, 5. concrete, 6. bricks, 7. stones, and 8. timber and bamboo	Smt. Madhurima Madhav Scientist-E
2	Soil mechanics and foundation engineering	4	2	Introduction to standards for soil testing and identification, sub-surface investigation, general requirements for foundations, shallow and deep foundations and ground improvement technologies.	Shri Amit Roy Scientist-G & Head
3	Concrete technology	4	2	Introduction to standards on concrete production, mix design, types of concrete and their applications, test method standards of fresh and hardened concrete.	Ms. Divya S. Scientist-D
4	Reinforced concrete design	4	2	Introduction to IS 456 and basic concrete design.	Shri Dwaipayana Bhadra Scientist-E and Head
5	Steel design	2	1	Introduction to IS 800, Types of Structural Steel Introduction to different Indian Standards on Steel Structures Introduction to IS 11384 Composite Design Loading Codes Fabrication and Erection.	Shri Abhishek Pal Scientist-D

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6	Earthquake engineering	2	1	General principles of earthquake resistant design, different lateral load resisting systems, basic seismic design standards.	Shri Arun Kumar S. Scientist-E
7	Building construction practices	2	1	Introduction to Masonry, Painting, Timber structure, Glass in Building.	Smt. Kanika Kalia Scientist-E & Head
8	Water supply, Drainage & Sanitation	2	1	Introduction to the Indian Standards for Sanitary Appliances and Water Fittings like: 1. Vitreous China Sanitary Appliances - Water Closets, Squatting Pans, Cistern, water efficient plumbing products etc. 2. Water Fittings used in Water Supply - Taps, valves, water meters etc.	Shri R K Kain Scientist-F and Head
9	Water resources engineering (Vol. 1 – Hydrology, Flood control and Ground water engineering)	2	1	Hydrological Cycle in Water Resources; Role of Hydrometry; Flood Management and Mitigation; Ground water Investigation, harvesting and Recharge.	Shri Dushyant Prajapati Scientist-E and Head
10	Water resources engineering (Vol. 2 – Irrigation engineering and hydraulic structures)	2	1	Canals and CD works; Water Resources Planning, Management and Evaluation; Hydraulic Structures Like Dams, Barrages/Weirs; Foundation Investigation and Treatment; Power House Structures and IMA & EMP in River Valley Projects.	Shri Milind Gupta Scientist-D
11	Construction management	2	1	Introduction to construction management standards i.e.; IS 15883 (Part 1 to 12), IS 16601 and 16416.	Shri Sahil Bhatia Scientist-D

### Mechanical Engineering

Sl No.	Topic	No. of hours	No. of sessions	Brief contents of the lecture	Officer (for preparation of ppt)
1	Thin pressure vessel — Gas Cylinders	2	1	Working principle of cylinders, Types of pressure vessels, stresses induced in cylinders, Criteria for selecting thickness and type of material for storing a particular type of gas, Different type of gases and their storage method, Difference between high pressure and low pressure cylinders, Technical parameters for designing a cylinder, Principle behind different tests conducted such as Tensile test, Burst test, Volumetric expansion, Pneumatic test, Fatigue test, Bonfire test etc. In process quality control in manufacturing	Shri Naveen Arora Scientist-D
2	Refrigeration and Air Conditioning	2	1	Working principles of RAC. Thermodynamics Fundamentals. Air Conditioning Systems such as room ACs, package ACs, chiller plant system and VRF systems. Components such as Compressors, condensers, evaporators, and expansion devices; used in various Refrigeration cycles like Vapour Compression System and Vapour Absorption System. Refrigeration Load Calculation, power consumption, and coefficient of performance (COP) calculations.  Psychrometrics: Properties of air and moisture, psychrometric charts, and air conditioning processes. Rated Cooling capacity test, Freezing test, maximum operating condition test, power consumption test and sound pressure test.	Shri Kumar Animesh Scientist-E and Head

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3	Pumps	2	1	Working principle of pumps and its classification, applications and acceptance criteria, calculation of discharge, power consumption, minimum efficiency, design and necessary requirements.	Shri K. Venkateswara Rao Scientist-F & Head
4	Turbo machinery	2	1	Working principle of compressors, turbines and its classification, applications and acceptance criteria, calculation of volume flow rate, specific power consumption, lubricating oil consumption, isentropic efficiency, and volumetric efficiency, potential safety hazards and necessary requirements.	Shri APD Dwivedi Scientist-F and Head
5	Continuous Bulk Conveying System	2	1	Brief introduction to important terminology, design, and product standards related to Continuous Bulk Conveying System. This includes the selection and design of belt conveyors, specification for troughed belt conveyors, specification for screw conveyors for industrial use, chain conveyors - connector units, shackle type, specification for steel roller conveyors, specification for conveyor chains, chain-wheels, and attachments. Additionally, to discuss the maintenance and code of practices involved during the operation of conveying systems.	Shri Sumit Kumar Scientist-E and Head

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6	Technical Drawings	2	1	<p>Types of projections; representation of lines, view, sections and cuts.</p> <p>Standardized representation of threads, fasteners, welds, bearings, springs and related components.</p> <p>Limits, fits and tolerances, dimensional and geometric tolerances, surface finish symbols.</p>	Shri Vimal Kumar Scientist-B
7	Safety, Performance and testing of Robots	2	1	<p>Basic Terms and Definitions related to Industrial and Service robots.</p> <p>Industrial robot Safety : Hazard identification and risk assessment; Design requirements and protective measures; Verification and validation of safety requirements and protective measures; significant hazards;</p> <p>Wheeled service robots performance criteria and test conditions: Speed test; Stopping characteristics test; Maximum slope angle; maximum speed on the slope; mobility over the sill; turning width.</p> <p>Navigation test for service robots: Test paths; Pose characteristics (accuracy and repeatability); Obstacle detection; Obstacle avoidance.</p>	Shri Kundan Giri Scientist-C
8	Rolling Bearings, wear and tear patterns on bearings	2	1	Rolling element endurance testing and analysis, test samples, test rig design, Classification of failure modes occurring in rolling bearings;	Shri R R Singh Scientist-F and Head

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				Failure modes: Rolling contact fatigue, wear, corrosion, electrical erosion, plastic deformation, cracking and fracture; Failure Analysis.	
9	Vehicle Dynamics and Control	2	1	Automotive braking systems, Accelerator controls, Automotive steering systems, Automated drive assisted system (ADAS), Tire pressure monitoring sensor (TPMS), Anti-lock braking systems (ABS), Rear parking assistance system (RPAS), Ride comfort, Electric Power trains etc.	Shri P V Shrikant Scientist-E
10	Internal Combustion Engines	2	1	About IC Engines, Performance requirements for constant speed compression ignition (Diesel) engines, Methods of tests for internal combustion, engines: governing tests for constant speed engines and selection of engines for use with electrical generators, performance tests, endurance tests, tests for smoke levels, limits and corrections for smoke levels for variable, speed compression ignition.	Shri Mitrasen Verma Scientist-D
11	Automobile Engineering	2	1	About Green Mobility, Electric Traction Motor - Performance and Functional Requirements., Electrically propelled road vehicles - Test specification for lithium-ion traction battery packs and systems -Performance testing Road Vehicles Electric Power Train of L, M and N Category Vehicles Specific Requirements Compressed Gaseous Hydrogen CGH2 And Hydrogen Natural Gas Blend Fuel System Components General Requirements and Definitions.	Shri Deepak Aggarwal Scientist-F and Head

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12	Principles of Ships and Marine Structures	2	1	About Ships and Marines, Shipbuilding - Ships' main engine fresh water cooling system, Shipbuilding - Ships' Main Engine Fuel Oil Piping System Air - Conditioning and ventilation of machinery control - Rooms on board ships - Design conditions and basis of calculations.	Shri Mohammad Taushif, Scientist-D & Shri Ravindra Beniwal Scientist-C
13	Gas turbines	2	1	Working principle of turbines and its classification, applications and acceptance criteria, functional/operating tests, potential safety hazards and necessary requirements.	Shri APD Dwivedi Scientist-F and Head



**Electrical Engineering**

<b>Sl No.</b>	<b>Topic</b>	<b>No. of hours</b>	<b>No. of sessions</b>	<b>Brief contents of the lecture</b>	<b>Officer (for preparation of ppt)</b>
1	Transformers	2	1	Working Principle of Transformer, Classification of Transformers, Tests of Transformers, Indian Standards available on various types of transformers.	Shri Asit Kumar Maharana Scientist-E & Head
2	Motors	4	2	Part 1:(1 hour) -Introduction to Motors & Uses of Motors in India -Fundamentals of Motors -Operation of DC Motor -Operation of Ac Motors -Operation of AC Induction Motors -Operation of AC Synchronous Motors -Motor Efficiency -Major Types of Motors Losses Explained -Main Strategies to Reduces Loss -Importance of Motor Standardization Part 2:Summary and explanation of Important Indian Standards -IS 12615: 2018 -IS 996: 2009 -IS 9283:2013 -IS 15999 series -IS/IEC 60034-5: 2000 -IS 6362:1995 (IEC Pub 34-6: 1991) -IS 12075: 2008	Shri Sumit Sengar Scientist-E and Head

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3	Insulators	2	1	Design characteristic of Overhead Insulators and overview of faults in transmission system.	Shri Mohammad Israfil Scientist-D
4	Cables	2	1	Introduction to selection, design and testing of cables in distribution and transmission system.	Shri Manish Kumar Scientist-E and Head
5	Power Converters & UPS	2	1	<p>Part 1: Introduction to Power Electronics (1 hour)</p> <p>Fundamentals of Power Electronics: Definition and scope of power electronics Basic power electronic components: Diodes, transistors (BJT, MOSFET, IGBT), thyristors, etc.</p> <p>Power electronic converter topologies: AC-DC (rectifiers), DC-AC (inverters), DC-DC (choppers), AC-AC (cycloconverters) Control strategies for power electronic converters.</p> <p>Part 2: Review of Relevant IS/IEC Standards (2 hours)</p> <p>Power Supplies: IS/IEC 61204 series- low-voltage switch-mode power supplies IS 15199 (Part 1 &amp; 2): Power convertors installed on board rolling stock (railway) IS 16242 (Part 1, 2 &amp; 3): General, safety, EMC, and performance requirements for UPS</p> <p>Adjustable Speed Drives: IS 17123 (Part 1 &amp; 6): General requirements and load duty determination for adjustable speed drives IS/IEC 61800 series- Adjustable Speed Electrical Power Drive Systems.</p>	Shri Sanjay Vij Scientist-F and Head

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6	Low Voltage and High Voltage Switchgears	2	1	Characteristic and performance requirements of Low voltage and High voltage switchgears such as circuit breakers, switches, starters etc.	Shri Parijat Shukla Scientist-E and Head
7	High Voltage Direct Current	2	1	<p>Foundational Concepts of High-Voltage Direct Current (HVDC) Systems.</p> <p>Basic HVDC Components:</p> <ul style="list-style-type: none"> <li>- Converter stations (rectifier, inverter)</li> <li>- Transmission lines/cables - Transformers, filters, reactive power compensation, etc.</li> </ul> <p>Introduction to Standards and Key HVDC Terminology</p> <p>Importance of Standards: Ensures compatibility, reliability, and safety. Facilitates international trade and collaboration.</p> <p>IEC and IS Organizations: Explain their roles in developing standards. Vocabulary (from IS 14801):</p> <p>Emphasize crucial terms like line-commutated converters (LCC), voltage-sourced converters (VSC), thyristor valves, etc.</p> <p>HVDC Standards</p> <p>Line-Commutated Converter (LCC) Systems IS 14902 (Part 1,2,3): Steady-state,</p>	Shri Sabyasachi Dhar Scientist-E and Head

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				<p>faults/switching, dynamic conditions Power Losses IS 15597: Determination of losses AC Filtering and Reactive Power IS 16071 (Part 1-4): AC filter design, performance, modeling, equipment Voltage- Sourced Converter (VSC) Systems IS 16075: VSC valve electrical testing IS 16667: Application of active filters IS 16666: HVDC substation audible noise IS 17575: VSC power transmission (general) IS 18322 (Part 1-2): VSC valve power losses System Design, Testing, and Performance IS 16076: System tests Asset Management, Reliability, and Environment IS 17576: Electromagnetic performance of overhead lines IS 17577: Asset management guidelines IS 17578: Reliability and availability evaluation IS 18324: Design of earth electrode stations Other topics (FACTS, UPFC, etc.) IS 18321: Unified Power Flow Controller (UPFC) performance IS 18322: Thyristor-controlled series capacitors (TCSC) testing IS 18323: Static synchronous compensator (STATCOM) testing IS 18345: Fire prevention measures.</p>	
8	Power Capacitors	2	1	Working principle, Classification of Power Capacitors, Test methods, Indian Standards available on various types of Power Capacitors.	Shri Tushar Sharma Scientist-D

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9	Renewable Energy	2	1	<p>Solar PV Modules--Design, Qualification and Type Approval</p> <p>Wind turbines: design requirements for wind turbine gearboxes , Rotor Blades , Acoustic Noise Measurement Techniques and Power Performance Measurement Techniques;</p> <p>Marine energy systems - Design and Analysis of an Ocean Thermal Energy Conversion OTEC plant , Power performance assessment.</p>	Shri Ritwik Anand Scientist-D
10	Electric Mobility	2	1	<p>Fundamentals of Electric Vehicles (Types of EVs, Key Components and Working Principles), Indian Standards for e-Mobility.</p>	Shri Vijayveeran K. Scientist-E and Head

**Electronics & Computer Engineering**

Sl No.	Topic	No. of hours	No. of sessions	Brief contents of the lecture	Officer (for preparation of ppt)
1	Cloud Computing & Data Centres	2	1	Introduction to standards pertaining to the following: 1. Concepts of cloud computing and multi-cloud 2. Use of multi-cloud services. 3. Vocabulary, concepts and reference architecture of cloud computing 4. Data centre facilities and infrastructure 5. Data centre key performance indicators etc.	Shri S K Kanogia Scientist-F and Head
2	Coding of Audio-Visual Objects (JPEG, MPEG & JVT)	2	1	Introduction to standards pertaining to Coding of audio-visual objects i.e; IS/ISO/IEC 14496 series and IS 16125: Part 1 & Part 2.	Shri Sudhir Bishnoi Scientist-F and Head
3	Electromagnetic Compatibility (EMC) and Electromagnetic Interference	2	1	Introduction to the concept of Electromagnetic compatibility of electrical and/or electronic equipment, between themselves and with electrical power networks including electromagnetic interference and measurement and calculation methods to assess human exposure to electric, magnetic and electromagnetic fields. Discussion on IS 14700/ IEC 61000 series of Standards	Shri Koushik Dutta Scientist-E and Head
4	Information security, network security and privacy protection	4	2	Introduction to the standards and concepts related to security [CIA (Confidentiality, Integrity, and Availability)] and privacy.	Shri Kshitij Bathla Scientist-C
5	Software - Quality Assurance, Life Cycle & Testing	4	2	Introduction to Software life cycle processes and Software Testing (IS 16124 and IS 11291)	Shri Ashish Tiwari Scientist-D

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6	Artificial Intelligence	4	2	Introduction to the concepts of Artificial Intelligence and related standards: 1. Overview of trustworthiness in artificial intelligence. 2. Framework for Artificial Intelligence (AI) Systems Using Machine Learning (ML). 3. AI system life cycle processes 4. Data life cycle framework.	Shri Ramesh K. Scientist-E and Head
7	Internet of Things	2	1	Brainstorming about the standards pertaining to IoT & Digital Twins, including maritime and underwater IoT i.e; IS/ISO/IEC TR 22417:2017, IS/ISO/IEC 21823 series.	Shri Deputy Sukhvir Singh Scientist-D
8	Environmental Testing of Electronics Equipment Procedures	2	1	Introduction to Standards pertaining to Environmental Test Procedures i.e. IS/IEC 60068 series, IS 9000, IS 9001 and IS 9002 series that are used extensively in the testing of all electronics products.	Shri Manikandan K. Scientist-E

### Chemical Engineering

Sl No.	Topic	No. of hours	No. of sessions	Brief contents of the lecture	Officer (for preparation of ppt)
1	Safety and Hazards in Process Industries	2	1	Standards related to safety and hazards in process industries.	Shri D Prema Kumar Scientist-E & Head
2	Ceramic raw materials	2	1	Standards on raw materials for ceramic and method of test for ceramic.	Shri Partha Sarathi Mandal Scientist-E & Head
3	Environmental management	2	1	Management Systems, Environmental Management System - Framework and Requirements.	Shri Ajay Kumar Lal Scientist-F & Head
4	Inorganic Chemicals	2	1	Standards on inorganic chemicals.	Shri Sagar Singh Scientist-D
5	Paint and varnish products	2	1	Types of Paints, Testing Related to Paints and Varnishes, Specification of Ready-Mixed Paint.	Shri Chandrakesh Singh Scientist-D
6	Petroleum products and their test methods	2	1	Indian Standards on Methods of Sampling and Test for Petroleum and Related Products.	Shri S.K.Datta Scientist-E and Head
7	Polymerization Engineering	4	2	Indian Standards on basic polymers, Indian Standards on Methods of Sampling and Test for Polymers, Recycling of Plastics.	Smt. Nagamani. T Scientist-E & Head
8	Technology of Elastomers	2	1	Indian standards related to elastomers.	Shri Vishant Rawat Scientist-D
9	Lubricants	2	1	Indian Standards on lubricants, bio-lubricants, lubricating oils & greases and their related products like coolants, hydraulic fluids, corrosion preventives, quenching and cutting oils, lubricants produced through synthesis routes and codes of practice for storage, handling, transport and application.	Shri Jeevanandam D Scientist-D



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10	Cosmeticology	2	1	Indian Standards for terminology, methods of sampling and test, codes of practice and specifications for raw materials for cosmetics and toilet goods (excluding soaps) and for finished products.	Ms. Nisha Bura Scientist-E
11	Paper and Paper-based packaging products	4	2	Indian standards for different types of writing and printing paper; and paper based wrapping and packaging materials; including their construction, dimensions and methods of tests.	Shri Virendra Singh Scientist-E

**Metallurgical Engineering**

<b>Sl No.</b>	<b>Topic</b>	<b>No. of hours</b>	<b>No. of sessions</b>	<b>Brief contents of the lecture</b>	<b>Officer (for preparation of ppt)</b>
1	Mechanical testing of metals	4	2	Brief introduction of Indian standards on destructive testing of metals. Important test methods explained in brief like scope, principle of test, test piece dimensions, method of test, representation of the results and report of the test. Test covered are tensile test, hardness tests- Vickers, Brinell, Rockwell and Charpy impact test	Shri Dushyant Prajapati Scientist-E & Head
2	Applications of ferrous and non-ferrous metals	4	2	Brief introduction of important standards on ferrous and non-ferrous products. Examples of various applications of ferrous and non-ferrous metals. i.e. Steel Tubes & Pipes, Structural steel, wear and abrasion resistant steel, Weathering steel, Galvanized steel, automotive steel , precoated and painted steel, stainless steel, low nickel stainless steel, alloy steel , cold heading steel, aluminium for castings, EC grade aluminium , copper rods for electrical purpose, Copper sheets, non-ferrous metals standards for trade on exchanges etc . Terminology standards of ferrous and non-ferrous metals.	Shri N Suryanarayana Scientist-F and Head
3	Welding technology	2	1	Overview of different types of welding processes and standards related to welding (especially different types of welding consumables, code of practice, safety and quality management in the field of welding).	Shri Anindya Chakrabarti Scientist-F and Head

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4	Chemical testing of metals	2	1	Brief introduction of Indian Standards on Chemical analysis of metals, important methods (wet methods and instrumental test methods) for analysis of steel, aluminium and copper.	Shri Sanjiv Maini Scientist-F and Head
5	Heat treatment and metallography	2	1	Heat Treatment of steel, concepts of phase diagrams, CCT and TTT curves, standards related to heat treatment, metallography, grain size determination.	Shri Suman Kuma Gupta Scientist-E and Head
6	Corrosion protection	2	1	Introduction to different types of corrosion and its mechanism. Brief introduction to corrosion protection techniques and Indian Standards related to it. Indian Standards on test methods for corrosion detection.	Shri Aditya Das Scientist-E and Head I/c
7	Refractories	2	1	Terminologies used in refractories and Indian standards pertaining to those definitions, Classification of refractories, Brief introduction of Indian standards on testing of refractories.	Shri Narendra Reddy Bessu Scientist-E
8	Non-destructive testing	2	1	Principle of various NDT methods and Indian Standards on various NDT Methods such as die penetrant testing, eddy current testing, radiography, ultrasonic testing, standard on qualification of NDT personnel.	Shri Kunal Kumar Scientist-E
9	Foundry technology	2	1	Foundry terminology, Details of various types of moulding, various standards for products used in Iron and Steel foundry Industry. Various types of casting.	Shri V. Ramesh Scientist-E
10	Powder metallurgy	2	1	Terminology, Product standard on Nickel, iron, copper-lead, bronze-lead powder, cobalt, tin powder, Test methods for determination of Apparent porosity, flow rate of powders, tests on hard metals etc.	Shri Ramakanth Sagar Scientist-D

### Food & Agriculture

Sl No.	Topic	No. of hours	No. of sessions	Brief contents of the lecture	Officer (for preparation of ppt)
1	Farm Power machinery (Tractors/Power tillers, harvesters, threshers)	4	2	Indian Standards on Tractor and Power Tillers Concept of Minimum Performance Standards, Indian Standards on Harvesting and Threshing Machinery, Importance and Implementation of these Standards.	Shri S.K. Singh Scientist-F & Head
2	Farm Equipment (Plant Protection, Implements)	4	2	Indian Standards on Tillage, Sowing/Planting Equipment, Plant Protection Equipment, Gardening and Horticultural tools.	Shri S.K. Singh Scientist-F & Head
3	Farm Irrigation and Drainage engineering	2	1	Indian Standards on Micro Irrigations Systems including pipes, filters, valves, sprinklers, installation and maintenance, Implementation of Standards through Government Schemes, Indian Standards on Farm Drainage Systems.	Shri Vijay Kumar Singh Scientist-E
4	Post-Harvest Processes and Equipment	4	2	Indian Standards on cleaning, sorting, grading, dehusking, polishing and milling operations for agricultural produce, Specifications for rice milling and millets equipment, Chaff Cutters, sugarcane crushers.	Smt. Suneeti Toteja Scientist-E & Head
5	Storage of Agricultural Produce (food grain/perishables)	4	2	Guidelines for storage of foodgrains; Guidelines for fumigation of foodgrains; Guidelines for storage, transportation ripening conditions for different type of fruits and vegetables.	Smt. Suneeti Toteja Scientist-E & Head

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6	Manures and Soil Testing	2	1	Product standards on vermicompost and municipal solid waste compost, Test methods for determination of nitrogen and its compounds, sulphur and its compounds, water retention capacity, Test methods for determination of micronutrients and contaminants in soil.	Ms. Surya Kalyani S. Scientist-E & Head
7	Agrochemicals	2	1	1. Test methods used to determine general requirements in technical grade pesticides and their formulations. 2. Important product specifications related to pesticides. 3. Important product specifications related to fertilizers.	Shri Ritu Raj Scientist-E
8	Good Agricultural Practices (India GAP, Organic farming and Natural Farming)	4	2	Relevance of Good Agricultural practices Concepts of Integrated Pest Management and Integrated Nutrient Management, Need for sustainable agriculture practices Concepts of Organic Farming and Natural Farming.	Shri Chinmay Dwivedi Scientist-E & Head
9	Analyzing composition of and contaminants in food products	4	2	Analysis of proximate composition of food products, Micronutrient analysis, Analysis of important contaminants in food products, Detection of adulterants in food products.	Shri Shouvik Chanda Scientist-E
10	Analyzing composition of and contaminants in dairy products	4	2	Qualitative and quantitative test methods for milk and milk products, Detection of adulterants in milk and milk products, Test methods for determination of contaminants (melamine and aflatoxin M1) in milk and milk products.	Shri Pinaki Gupta Scientist-E & Head
11	Analyzing microbiological safety of food products	2	1	Concept of Microbiological Safety of food products, Sampling of food products for microbiological testing, Important Indian	Smt. Varsha Gupta Scientist-E

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				Standards for detection and enumeration of microbial pathogens in food products.	
12	Food Safety Codes and FSMS	2	1	Concept of Food Safety, Hazard Analysis and Critical Control Point System (HACCP), Prerequisite Programmes to Food Safety, Sector specific Food Safety Codes, Food Safety Management Systems (FSMS).	Dr. Anil Kapri Scientist-E
13	Indian Standards on Good Aquaculture practices	4	2	Good aquaculture practices for Shrimp Hatchery and Grow Out Farms, Striped Catfish, Freshwater Prawn Culture, Cage Culture in Fresh Water, Sea Cage Farming, Marine Finfish Hatchery, Seaweed cultivation.	Ms. Nagavalli S Scientist-E
14	Dairy Equipment	2	1	Indian Standards on Milk Cans Indian Standards on Milk Storage Tanks and important milk processing equipment. Indian Standard on Bulk Milk Cooling Tank	Shri Rino John Scientist-D
15	Drinking Water Quality	2	1	Indian Standard on Drinking water (IS 10500), Indian Standard on Packaged Drinking Water (IS 14543) and Packaged Natural Mineral Water (IS 13428) covering various aspects relating to scope, treatments permitted, organoleptic, Physical, Chemical, radiological, microbiological requirements and compliance criteria.	Ms. Nitasha Doger Scientist-E

## Annexure-II

S.No	Emp No	Name of Employee	Designation	Place of Posting	Department	Discipline
4	62669	Shri Suman Kumar Gupta	Scientist-E & (HEAD)	Patna	PTBO	Metallurgy
5	64084	Shri Aditya Das	Scientist-E & (HEAD)	New Delhi	HRD	Metallurgy
6	64157	Shri Narender Reddy Beesu	Scientist-E	Bangalore	BNBO	Metallurgy
7	64149	Shri Kunal Kumar	Scientist-E	New Delhi	MTD	Metallurgy
8	64289	Shri V. Ramesh	Scientist-E	Coimbatore	CTBO	Metallurgy
9	64270	Shri Ramakanth Sagar Muthyala	Scientist-D	Vijayawada	VJBO	Metallurgy
10	65056	Shri Manodip Bag	Scientist-D	Kolkata	ERO	Metallurgy
11	65013	Smt. Beauty Kumari Jha	Scientist-D	New Delhi	FMCD	Metallurgy
12	64877	Shri Sai Kumar Vedula	Scientist-D	Kochi	KOBO	Metallurgy
13	65005	Shri Ranjit Kumar	Scientist-D	New Delhi	CMD-I	Metallurgy
14	65021	Shri Rakesh Taneeru	Scientist-D	Hyderabad	HYBO	Metallurgy
15	65391	Shri Shiv Prakash	Scientist-D	Parwanoo	PRBO	Metallurgy
16	65072	Shri Vinith Kumar G	Scientist-D	Pune	PNBO	Metallurgy
17	64963	Shri Manvendra Singh	Scientist-D	Kolkata	KKBO-II	Metallurgy
18	64997	Shri Deepak Patra	Scientist-D	Bhopal	BHBO	Metallurgy
19	65412	Shri Rongali Tirumala Rao	Scientist-D	Chennai	SRO HMO(S)-II	Metallurgy
20	64882	Shri Kanan Govindaraj	Scientist-D	Faridabad	FRBO	Metallurgy
21	65381	Shri Veerendra Kumar Rawat	Scientist-D	Noida	NOBO	Metallurgy
22	64971	Shri Satyendra Kumar Pandey	Scientist-D	Rajkot	RJBO	Metallurgy
23	65501	Shri Arun Puchakayala	Scientist-D	Chennai	CNBO	Metallurgy
24	65498	Shri Siva Prasad Gude	Scientist-D	New Delhi	CMD-I	Metallurgy
25	65579	Shri Mukundhan Raghunathan	Scientist-D	Chennai	SRL	Metallurgy
26	65065	Shri Manojit Mondal	Scientist-D	Kolkata	MSCO (ERO-II)	Metallurgy
27	65048	Shri Sudipt Kumar	Scientist-D	Bhubaneswar	BHBO	Metallurgy
28	66168	Shri Subhangshu Sen	Scientist-D	Kolkata	KKBO-I	Metallurgy
29	66150	Shri Ishan Trivedi	Scientist-D	Ahmedabad	AHBO	Metallurgy
30	66133	Shri Prajyot Dahikar	Scientist-D	Mumbai	WRL	Metallurgy
31	65037	Shri Srinivas Mohan Shankar Duvvuri	Scientist-D	New Delhi	TNMD	Metallurgy
32	65438	Shri Ashok Kumar	Scientist-C	Kolkata	KKBO-II	Metallurgy
33	65544	Shri Ashutosh Shukla	Scientist-C	New Delhi	NITS	Metallurgy

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34	66117	Shri Vesalapu Avinash Babu	Scientist-C	Mumbai	WRO	Metallurgy
35	67784	Shri Sachchidanand Kumar	Scientist-C	New Delhi	HRD	Metallurgy
36	68098	Shri Shivam Ahuja	Scientist-C	New Delhi	CMD-II	Metallurgy
37	68101	Shri Sachin Choudhary	Scientist-C	Dehradun	DHBO	Metallurgy
38	67750	Shri Akshay Kaushik	Scientist-C	New Delhi	HMD	Metallurgy
39	67741	Shri Kunjan Kumar Anand	Scientist-C	Surat	SUBO	Metallurgy
40	67768	Shri Sandesh Sudhakar Gokanwar	Scientist-C	Nagpur	NGBO	Metallurgy
41	68179	Shri Krishna Sudheendran	Scientist-C	New Delhi	PGD	Metallurgy
42	67792	Shri Mainak Gantait	Scientist-C	Kolkata	KKBO-I	Metallurgy
43	68128	Ms. Khushbu Jyotsna Kindo	Scientist-C	New Delhi	MED	Metallurgy
44	67776	Shri Vipin Bhaskar	Scientist-C	Vadodra	VDBO	Metallurgy
45	69000	Shri Ashish Prabhakar Wakle	Scientist-C	New Delhi	MTD	Metallurgy
46	67733	Ms. Kanchan Oraon	Scientist-C	Mumbai	MUBO-I	Metallurgy
47	66125	Shri Rajiv Ranjan	Scientist-C	New Delhi	MSD	Metallurgy



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S.No	Emp No	Name of Employee	Designation	Place of Posting	Department	Discipline
1	62693	Shri Tilak Raj	Scientist-E & (HEAD)	Jammu	JKBO	Mechanical Engg.
2	62936	Shri Vishal Tomer	Scientist-E & (HEAD)	Chandigarh	CHBO	Mechanical Engg.
3	62952	Shri Kumar Animesh	Scientist-E & (HEAD)	Ghaziabad	GZBO	Mechanical Engg.
4	63614	Shri Mahendra Kumar Paramanik	Scientist-E & (HEAD)	New Delhi	MSCD	Mechanical Engg.
5	63568	Shri Sumit Kumar	Scientist-E & (HEAD)	Raipur	RPBO	Mechanical Engg.
6	63667	Shri Ponugu Venkat Srikanth	Scientist-E & (HEAD)	Hyderabad	HYBO	Mechanical Engg.
7	63606	Shri Ved Prakash	Scientist-E & (HEAD)	Gandhidham	GDBO	Mechanical Engg.
8	63738	Shri Vikrant	Scientist-E	New Delhi	HMD	Mechanical Engg.
9	63487	Shri Subash Chandra Naik	Scientist-D & (HEAD)	Parwanoo	PRBO	Mechanical Engg.
10	64122	Shri Amit Kumar	Scientist-D	Ahmedabad	AHBO	Mechanical Engg.
11	58343	Shri A K Mohindroo	Scientist-D	New Delhi	CL	Mechanical Engg.
12	64912	Shri Chandan Gupta	Scientist-D	Mumbai	WRL	Mechanical Engg.
13	65366	Shri Rakesh Kumar	Scientist-D	New Delhi	CMD-III	Mechanical Engg.
14	64920	Shri Mitrasen Verma	Scientist-D	New Delhi	TED	Mechanical Engg.
15	64904	Shri Kumar Manish Raja	Scientist-D	Noida	NITS	Mechanical Engg.
16	65374	Shri Prabhunath Yadav	Scientist-D	Jamshedpur	JDBO	Mechanical Engg.
17	65081	Shri Sudhanshu Rai	Scientist-D	New Delhi	CMD-I	Mechanical Engg.
18	64939	Shri Kush Sharma	Scientist-D	New Delhi	TNMD	Mechanical Engg.
19	65561	Shri Mohammad Taushif	Scientist-D	New Delhi	TED	Mechanical Engg.
20	62022	Shri A. Arivazhagan	Scientist-D	Madurai	MDBO	Mechanical Engg.
21	65536	Ms. Khashboo Kumari	Scientist-D	Chennai	SRL	Mechanical Engg.
22	60747	Shri Pankaj Atri	Scientist-D	Jammu	JKBO	Mechanical Engg.
23	60720	Shri Deepak Kumar	Scientist-D	Mohali	NRL	Mechanical Engg.
24	64947	Shri Vichitra Vir Singh	Scientist-D	New Delhi	PGD	Mechanical Engg.
25	65447	Shri Raman Kumar Trivedi	Scientist-D	Jaipur	JPBO	Mechanical Engg.
26	60690	Shri Gulshan Kumar	Scientist-D	Chandigarh	NRL	Mechanical Engg.
27	61212	Shri Sharad Kumar	Scientist-D	Faridabad	FRBO	Mechanical Engg.
28	66206	Shri Mohit Janoia	Scientist-D	New Delhi	CMD-I	Mechanical Engg.
29	66184	Shri Naveen Kumar Arora	Scientist-D	Ghaziabad	GZBO	Mechanical Engg.
30	66231	Shri Gowtham B.J	Scientist-D	Chennai	CNBO	Mechanical Engg.
31	66215	Ms. Ankita Vidhyarthi	Scientist-D	New Delhi	MED	Mechanical Engg.
32	66257	Shri Mohammad Aqib	Scientist-D	New Delhi	PUBLICATIONS	Mechanical Engg.
33	66176	Shri Shanmukha Shiva Palli	Scientist-D	Bangalore	BNBL	Mechanical Engg.

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34	68004	Shri Rajat Gupta	Scientist-C	New Delhi	LPPD	Mechanical Engg.
35	67954	Shri Rahul Pushkar	Scientist-C	Ahmedabad	AHBO	Mechanical Engg.
36	67938	Shri Shubham Tiwari	Scientist-C	New Delhi	MED	Mechanical Engg.
37	68047	Shri Satyabrata Bisoi	Scientist-C	New Delhi	DLBO-II	Mechanical Engg.
38	67873	Shri Nishant Parasar	Scientist-C	Patna	PTBL	Mechanical Engg.
39	68039	Shri Shivam Aggarwal	Scientist-C	New Delhi	FMCD	Mechanical Engg.
40	67997	Shri Vivek Prakash	Scientist-C	New Delhi	DLBO-II	Mechanical Engg.
41	68012	Shri Kavın Keerthy Vinayagam Js	Scientist-C	New Delhi	VIGILANCE	Mechanical Engg.
42	68187	Shri Tushit Kamal	Scientist-C	New Delhi	IR & TISD	Mechanical Engg.
43	67857	Shri Ravindra Beniwal	Scientist-C	New Delhi	TED	Mechanical Engg.
44	67814	Shri Remyth Suresh M	Scientist-C	Coimbatore	CTBO	Mechanical Engg.
45	67865	Shri Shekhar	Scientist-C	New Delhi	CSMD	Mechanical Engg.
46	67911	Shri Sandeep Keshav	Scientist-C	New Delhi	MED	Mechanical Engg.
47	67971	Shri Kundan Giri	Scientist-C	New Delhi	PGD	Mechanical Engg.
48	67920	Shri Manish Kumar	Scientist-C	Gandhidham	GDBO	Mechanical Engg.
49	67849	Shri Barun Das	Scientist-C	New Delhi	MSCD	Mechanical Engg.
50	67822	Shri Pawan Kumar	Scientist-C	New Delhi	DLBO-I	Mechanical Engg.
51	68136	Shri Kumar Harshwardhan	Scientist-C	New Delhi	CRO Sectt.	Mechanical Engg.
52	67890	Shri Sheetal Upali Patil	Scientist-C	Mumbai	MUBO-I	Mechanical Engg.
53	68021	Shri Phalendra Kumar	Scientist-C	New Delhi	SCMD	Mechanical Engg.
54	67903	Shri Ashish Vasantao Urewar	Scientist-C	New Delhi	MSD	Mechanical Engg.
55	67806	Shri Lamsuanlun Tonsing	Scientist-C	Guwahati	GHBO	Mechanical Engg.
56	67881	Shri M Isaac Ginlaldin	Scientist-C	New Delhi	HRD	Mechanical Engg.
57	67989	Ms. Deepti Budiyal	Scientist-C	New Delhi	REGISTRATION	Mechanical Engg.

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S.No	Emp No	Name of Employee	Designation	Place of Posting	Department	Discipline
1	62375	Shri S.K.Datta	Scientist-E & (HEAD)	New Delhi	Registration	Chemical Engg.
2	60615	Shri D Prema Kumar	Scientist-E & (HEAD)	Hubli	HUBO	Chemistry
3	62839	Smt. Nagamani. T	Scientist-E & (HEAD)	Bangalore	BNBL	Chemistry
4	62847	Shri Partha Sarathi Mandal	Scientist-E & (HEAD)	Bhopal	BPBO	Chemical Engg.
5	64211	Ms. Nisha Bura	Scientist-E	New Delhi	IR & TISD	Chemistry
6	64220	Ms. Nitasha Doger	Scientist-E	New Delhi	FAD	Chemistry
7	64246	Shri Virendra Singh	Scientist-E	New Delhi	CHD	Chemistry
8	64173	Shri Jeevanandam D	Scientist-D	Chennai	CNBO	Chemical Engg.
9	64181	Shri Vishant Rawat	Scientist-D	New Delhi	Central Lab	Chemical Engg.
10	64190	Shri Chandrakesh Singh	Scientist-D	Lucknow	LKBO	Chemical Engg.
11	64203	Ms. Shikha Rana	Scientist-D	New Delhi	TNMD	Chemical Engg.
12	64300	Shri Piyush Mahadeorao Wasekar	Scientist-D	Mumbai	MUBO-I	Chemical Engg.
13	64327	Shri Amit Chaudhary	Scientist-D	New Delhi	CMD-II	Chemistry
14	64238	Ms. Shrishti Dixit	Scientist-D	New Delhi	SCMD	Chemistry
15	64254	Ms. Supriya Sachdeva	Scientist-D	New Delhi	DLBO-II	Chemistry
16	64319	Shri Vijay Kumar Gupta	Scientist-D	New Delhi	HRD	Chemical Engg.
17	64297	Shri Karem Raja Shekhar	Scientist-D	Bangalore	BNBO	Chemical Engg.
18	61751	Shri Inderjeet Singh	Scientist-D	New Delhi	CMD-II	Chemistry
19	61689	Shri Satish Kumar	Scientist-D	New Delhi	P & C	Chemistry
20	57509	Shri Surender Kumar	Scientist-D	Bangalore	BNBL	Chemistry
21	60852	Shri Sanjay Saxena	Scientist-D	New Delhi	CMD-I	Chemistry
22	65714	Shri Sagar Singh	Scientist-D	New Delhi	CHD	Chemical Engg.
23	65684	Ms. Premlata Sinha	Scientist-D	Bangalore	BNBO	Chemical Engg.
24	65706	Ms. Poonam Choudhary	Scientist-D	Jaipur	JPBO	Chemical Engg.
25	66346	Shri Rahul Verma	Scientist-D	Faridabad	FRBO	Chemical Engg.
26	58653	Smt. Nisha Vivekanand Kanbargi	Scientist-D	Nagpur	NGBO	Chemistry
27	65676	Shri Aabid Hussain	Scientist-C	Patna	PTBL	Chemical Engg.
28	67482	Ms. Kreeti Das	Scientist-C	New Delhi	PCD	Chemical Engg.
29	67474	Shri Abhishek Sandhanababu Naidu	Scientist-C	New Delhi	IR&TISD	Chemical Engg.
30	68080	Ms. Preeti Prabha	Scientist-C	New Delhi	CHD	Chemical Engg.
31	68110	Shri Sachin S. Menon	Scientist-C	New Delhi	MSCD	Chemical Engg.
32	68152	Shri Abhishek Kumar	Scientist-C	Chandigarh	CHBO	Chemical Engg.
33	67385	Shri Pravir Kumar Choubey	Scientist-C	New Delhi	FMCD	Chemistry
34	67393	Ms. Puja Priya	Scientist-C	New Delhi	CHD	Chemistry

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35	67440	Shri Rahul Kumar	Scientist-C	Bhopal	BPBO	Chemical Engg.
36	67466	Shri Sushant Kumar	Scientist-C	New Delhi	CHD	Chemical Engg.
37	67423	Shri Deepak Lodhwal	Scientist-C	New Delhi	CMED	Chemical Engg.
38	67415	Shri Nikhil Raj	Scientist-C	Surat	SUBO	Chemical Engg.
39	68063	Ms. Thechano C. Ovung	Scientist-C	Guwahati	GHBL	Chemical Engg.
40	67407	Shri Mohit Meena	Scientist-C	Jaipur	JPBO	Chemical Engg.
41	64335	Shri Gyan Prakash	Scientist-C	Pune	PNBO	Chemical Engg.

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S.No	Emp No	Name of Employee	Designation	Place of Posting	Department	Discipline
1	62570	Shri Alok Singh	Scientist-E	Mumbai	MSCO(WRO)	Civil Engg.
2	62219	Shri S.D. Rane	Scientist-E & (HEAD)	Pune	PNBO	Civil Engg.
3	62863	Shri Dwaipayan Bhadra	Scientist-E & (HEAD)	New Delhi	CED	Civil Engg.
4	62871	Smt. Bhavana Sharma	Scientist-E & (HEAD)	Mohali	NRL	Civil Engg.
5	62979	Smt. Lalthanpari	Scientist-E	New Delhi	MSCO (CRO)-I	Civil Engg.
6	63631	Shri Arun Kumar S.	Scientist-E	New Delhi	CED	Civil Engg.
7	63355	Smt. Kanika Kalia	Scientist-E & (HEAD)	Jaipur	JPBO	Civil Engg.
8	63334	Shri Dushyant Prajapati	Scientist-E & (HEAD)	New Delhi	WRD	Civil Engg.
9	63479	Shri Sinam Hudson Singh	Scientist-E	Mumbai	NRL	Civil Engg.
10	63371	Smt. Madhurima Madhav	Scientist-E	New Delhi	NITS	Civil Engg.
11	63398	Dr. Manoj Kumar Rajak	Scientist-E	New Delhi	CED	Civil Engg.
12	63401	Shri Mohammad Rizwan	Scientist-D	Bhopal	BPBO	Civil Engg.
13	63541	Smt. Shalu Varshney	Scientist-D	New Delhi	CL	Civil Engg.
14	65510	Shri Pradeep Singh Shekhawat	Scientist-D	New Delhi	CED	Civil Engg.
15	63452	Ms. Seebai T.(Dr.)	Scientist-D	Kochi	KOBO	Civil Engg.
16	65455	Shri Sahil Bhatia	Scientist-D	Parwanoo	PRBO	Civil Engg.
17	65731	Shri Milind Gupta	Scientist-D	New Delhi	PMWD	Civil Engg.
18	65722	Shri Sandeep S. Kumar	Scientist-D	Kochi	KOBO	Civil Engg.
19	65781	Shri Abhishek Pal	Scientist-D	New Delhi	CED	Civil Engg.
20	65765	Ms. Divya S.	Scientist-D	New Delhi	CED	Civil Engg.
21	65757	Shri Ashish Kumar Kanar	Scientist-D	New Delhi	CMD-III	Civil Engg.
22	65811	Shri Sahil Khatri	Scientist-D	New Delhi	PMWD	Civil Engg.
23	65749	Shri Raunak Sukhadeve	Scientist-C	Nagpur	NGBO	Civil Engg.
24	67491	Shri Shantanaba Majumder	Scientist-C	Kolkata	ERL	Civil Engg.
25	67504	Shri Nishikant Singh	Scientist-C	New Delhi	CED	Civil Engg.

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S.No	Emp No	Name of Employee	Designation	Place of Posting	Department	Discipline
1	59170	Shri M Bala Krishnan	Scientist-E	Chennai	HMO (SRO)-I	Electrical Engg.
2	62677	Shri Sabyasachi Dhar	Scientist-E & (HEAD)	Kolkata	KKBO-I	Electrical Engg.
3	62901	Shri Sumit Sengar	Scientist-E & (HEAD)	Ahmedabad	AHBO	Electrical Engg.
4	63681	Shri Manish Kumar	Scientist-E & (HEAD)	New Delhi	CL	Electrical Engg.
5	63304	Shri Asit Kumar Maharana	Scientist-E & (HEAD)	New Delhi	ETD	Electrical Engg.
6	62928	Shri Parijat Shukla	Scientist-E & (HEAD)	Rajkot	RJBO	Electrical Engg.
7	62642	Smt. Vibha Rani	Scientist-E & (HEAD)	Faridabad	FRBO	Electrical Engg.
8	62685	Shri Vijayaveeran K.	Scientist-E & (HEAD)	Bangalore	BNBO	Electrical Engg.
9	63291	Ms. Anurita Jojo	Scientist-D	New Delhi	VIGILANCE	Electrical Engg.
10	65552	Shri Sumit Bhardwaj	Scientist-D	New Delhi	CL	Electrical Engg.
11	60887	Shri Mukesh Tayal	Scientist-D	New Delhi	Publication	Electrical Engg.
12	63592	Shri Jainendra Kumar	Scientist-D	New Delhi	REGISTRATION	Electrical Engg.
13	63622	Shri Sakuram Gugulothu	Scientist-D	New Delhi	CMED	Electrical Engg.
14	65935	Shri Tushar Sharma	Scientist-D	New Delhi	ETD	Electrical Engg.
15	65927	Shri Sreejith Mohan J	Scientist-D	Chennai	CNBO	Electrical Engg.
16	66095	Smt. Aurosmita Kabiraj	Scientist-D	New Delhi	REGISTRATION	Electrical Engg.
17	65951	Shri Mohammad Israfil	Scientist-D	New Delhi	ETD	Electrical Engg.
18	66109	Ms. Tithi Singha	Scientist-D	Kolkata	KKBO-I	Electrical Engg.
19	65897	Shri Trinadh Kothapalli	Scientist-D	Mumbai	MUBO-I	Electrical Engg.
20	66087	Ms. Ishita Dalal	Scientist-D	Kolkata	KKBO-II	Electrical Engg.
21	66001	Shri Avik Datta	Scientist-D	New Delhi	REGISTRATION	Electrical Engg.
22	65960	Shri Shyam Kumar	Scientist-D	Dehradun	DHBO	Electrical Engg.
23	65978	Shri Divyanshu Kumar Yadav	Scientist-D	New Delhi	DLBO-I	Electrical Engg.
24	66044	Ms. Surabhi Raja Ram Arya	Scientist-D	New Delhi	ETD	Electrical Engg.
25	66052	Shri Ajay Maurya	Scientist-D	Chandigarh	CHBO	Electrical Engg.
26	66061	Shri Soumit Mondal	Scientist-D	New Delhi	SCMD	Electrical Engg.
27	66079	Shri Arka Saha	Scientist-D	Bhubaneswar	BHBO	Electrical Engg.
28	66036	Shri Dillip Chattar	Scientist-D	Jamshedpur	JDBO	Electrical Engg.
29	56030	Shri K Srinivasa Rao	Scientist-C	Kolkata	ERL	Electrical Engg.
30	63509	Shri Suresh Kumar Gopalan	Scientist-C	Jaipur	JPBO	Electrical Engg.
31	65889	Shri Arjun T.	Scientist-C	Mumbai	MUBO-II	Electrical Engg.
32	67695	Ms. Shikha Goyal	Scientist-C	Jaipur	JPBO	Electrical Engg.
33	67717	Ms. Meghna Mudgal	Scientist-C	New Delhi	ETD	Electrical Engg.
34	67628	Shri Kalle Sai Kaushik	Scientist-C	Vijayawada	VJBO	Electrical Engg.

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35	67580	Ms. Neha Agarwal	Scientist-C	New Delhi	ETD	Electrical Engg.
36	69027	Ms. Ankita Tripathi	Scientist-C	New Delhi	ETD	Electrical Engg.
37	67709	Shri Chandan Kumar	Scientist-C	New Delhi	PMWD	Electrical Engg.
38	67601	Ms. Alismita Khag	Scientist-C	New Delhi	LITD	Electrical Engg.
39	67687	Shri Dhinesh Rajagopalan L	Scientist-C	Chennai	CNBO	Electrical Engg.
40	67652	Shri Singaraju Venkatesh	Scientist-C	New Delhi	FMCD	Electrical Engg.
41	67679	Shri Vijay Kumar	Scientist-C	Faridabad	FRBO	Electrical Engg.
42	67610	Shri Abinash Bordoloi	Scientist-C	New Delhi	ETD	Electrical Engg.
43	67644	Shri Tapan Kumar Haldar	Scientist-C	Nagpur	NGBO	Electrical Engg.
44	67598	Shri Emanuel Abhishek Murmu	Scientist-C	New Delhi	ETD	Electrical Engg.
45	67725	Shri Rahul Vishwakarma	Scientist-C	New Delhi	CMD-III	Electrical Engg.
46	67636	Shri Supai Tudu	Scientist-C	New Delhi	LPPD	Electrical Engg.
47	67571	Ms. Neelam Singh	Scientist-C	Ghaziabad	GZBO	Electrical Engg.

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S.No	Emp No	Name of Employee	Designation	Place of Posting	Department	Discipline
1	57991	Shri G Venkatanarayanan	Scientist-E	Chennai	MSCO(SRO)	Computer Science
2	62197	Shri H B Ade	Scientist-E & (HEAD)	Nagpur	NGBO	Electronics
3	63363	Shri Koushik Dutta	Scientist-E & (HEAD)	Patna	PTBL	Electronics
4	62910	Shri Jitender Kumar	Scientist-E & (HEAD)	New Delhi	DLBO-I	Computer Engineering
5	62855	Shri Sundeep Kumar	Scientist-E & (HEAD)	New Delhi	ITSD	Computer Engineering
6	63550	Shri Ramesh K.	Scientist-E & (HEAD)	Chandigarh	HRBO	Electronics
7	63380	Shri Manikandan K.	Scientist-E	Mumbai	WRL	Electronics
8	60585	Shri B Rajagopal	Scientist-D	Chennai	CNBO	Electronics
9	63495	Ms. Sujatha Thammadi	Scientist-D	Hyderabad	HYBO	Computer Engineering
10	63576	Smt. Sattu Savitha	Scientist-D	Hyderabad	HYBO	Electronics
11	65161	Shri Adbhut Singh	Scientist-D	Mumbai	MUBO-I	Electronics
12	65171	Shri Ashish Tiwari	Scientist-D	New Delhi	LITD	Electronics
13	65158	Shri Ritwik Anand	Scientist-D	New Delhi	ETD	Electronics
14	65145	Ms. Vinodini Kishore	Scientist-D	Bangalore	BNBO	Electronics
15	65331	Shri Hemant Kumar Bansiwala	Scientist-D	New Delhi	ITSD	Computer Science
16	65129	Ms. Supriya Minz	Scientist-D	New Delhi	PUBLICATIONS	Electronics
17	65528	Shri Devansh Deolekar	Scientist-D	New Delhi	LITD	Electronics
18	65595	Shri Deputy Sukhvir Singh	Scientist-D	Chandigarh	NRO MSCO	Electronics
19	65340	Shri Jayachandra Babu Parimala	Scientist-D	Mumbai	MUBO-II	Electronics
20	65100	Shri Vijay Kumar Gauraw	Scientist-D	Patna	PTBO	Electronics
21	65838	Ms Ankita Srivastava	Scientist-D	New Delhi	LITD	Computer Engineering
22	65862	Ms. Jyoti Kushwaha	Scientist-D	New Delhi	LITD	Computer Engineering
23	65871	Shri Peeyush Prakash	Scientist-D	New Delhi	CMD-III	Computer Engineering
24	65854	Shri Nitish Kumar Verma	Scientist-D	New Delhi	ITSD	Computer Engineering
25	67521	Shri Kshitij Bathla	Scientist-C	New Delhi	LITD	Electronics
26	67555	Ms. Talika	Scientist-C	Chandigarh	CHBO	Electronics
27	67539	Shri Dharamsoth Santhosh	Scientist-C	New Delhi	SSD	Electronics
28	67547	Shri Chiragkumar Bhavneshkumar Shah	Scientist-C	New Delhi	P&C	Electronics



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S.No	Emp No	Name of Employee	Designation	Place of Posting	Department	Discipline
1	62227	Shri S.C. Dass	Scientist-E & (HEAD)	New Delhi	HMD	Bio-chemistry
2	63436	Shri Pinaki Gupta	Scientist-E & (HEAD)	New Delhi	CMD-II	Micro Biology
3	63321	Shri Chinmay Dwivedi	Scientist-E & (HEAD)	New Delhi	PCD	Micro Biology
4	63711	Shri Saurabh Tiwari	Scientist-E & (HEAD)	Dehradun	DHBO	Micro Biology
5	63827	Ms. Surya Kalyani S.	Scientist-E & (HEAD)	New Delhi	TNMD	Micro Biology
6	62880	Shri Vijay Kumar Singh	Scientist-E	Mumbai	HMO (WRO-I)	Agriculture
7	63282	Shri Ajay Tewari	Scientist-E & (HEAD)	New Delhi	LRMD & additional charge of H (LPPD)	Micro Biology
8	63517	Smt. Sushma Rao M.	Scientist-E	New Delhi	NITS	Micro Biology
9	63444	Ms. Prem Sajani Patnala	Scientist-E	Madurai	MDBO	Micro Biology
10	63461	Shri Shouvik Chanda	Scientist-E	Kolkata	KKBO-II	Micro Biology
11	63533	Smt. Varsha Gupta	Scientist-E & (HEAD)	New Delhi	EED	Micro Biology
12	64092	Shri Anil Kapri	Scientist-E	New Delhi	VIGILANCE	Micro Biology
13	64114	Ms. Nagavalli S	Scientist-E	Bangalore	BNBL	Micro Biology
14	64637	Shri Ritu Raj	Scientist-E	Noida	NOBO	Micro Biology
15	64130	Shri Kaushelendra Kumar	Scientist-D	Jamshedpur	JDBO	Micro Biology
16	65217	Shri M. Arul Sathya Murugasamy	Scientist-D	Chennai	SRL	Food Technology
17	65463	Dr. Bhawana	Scientist-D	New Delhi	FAD	Food Technology
18	65242	Ms. Deepti Arora	Scientist-D	Bangalore	BNBL	Food Technology
19	65285	Ms. Shikha Dawar	Scientist-D	New Delhi	IR&TISD	Food Technology
20	65421	Ms. Hemlatha Purushothama	Scientist-D	Madurai	MDBO	Food Technology
21	65269	Ms. Navita Yadav	Scientist-D	Chandigarh	HRBO	Food Technology
22	65234	Ms. Adane Kharsi	Scientist-D	Guwahati	GHBO	Foods & Nutrition
23	65276	Smt. Neha Yadav	Scientist-D	New Delhi	SCMD	Food Technology
24	65307	Shri Muninarayana R.	Scientist-D	Chennai	SRL	Food Technology
25	65323	Shri Rajpal	Scientist-D	New Delhi	DLBO-II	Food Technology
26	65200	Shri Rino John	Scientist-D	Coimbatore	CTBO	Food Technology
27	65251	Ms. Neha Kumari	Scientist-D	Mohali	NRL	Food Technology
28	65226	Ms. Priyanka	Scientist-D	Ghaziabad	GZBO	Food Technology
29	65296	Shri Manoj Baliram Chavan	Scientist-D	Patna	PTBL	Food Technology
30	65315	Shri Mahendar Singh Jakhar	Scientist-D	Bangalore	BNBL	Food Technology