Day-0: Tuesday, 25 March 2025	
16:00 - 18:00	**Registration, Student Posters and Reception**

Day-1: Wednesday, 26 March 2025			
08:30 - 09:00	**Registration**		
09:00 - 10:30	**Inaugural Session** *Venue: Homi Bhabha Auditorium*		
09:00 - 9:45	Inauguration and address by Chief Guest		
09:45 - 10:30	Keynote Address: Cyclotron Technologies & its Applications in Basic Science Research and Healthcare, *Sumit Som*		
10:30 - 11:00	**Inauguration of Industrial Exhibits & High Tea**		
11:00 - 12:30	**Technical Session I** *Venue: Homi Bhabha Auditorium*		
11:00 – 11:30	SHI Based Radiation Biology Research at IUAC, *Avinash Chandra Pandey*		
11:30 - 11:50	Development of high intensity proton linacs- Status and way forward, *Rajesh Kumar*		
11:50 - 12:10	Advances in the PIP-II Project and the Indian Institutions & Fermilab Collaboration, *Saravan K. Chandrasekaran*		
12:10 - 12:30	Design of 500 MeV injector electron LINAC for the proposed Indus-3, *Vinit. Kumar*		
12:30 - 14:00	**Lunch Break**		
14:00 - 1600	**Technical Session II (3 parallel sessions)**		
	Parallel Session II-1 **(Beam Dynamics)** *Venue: Homi Bhabha Auditorium*	**Parallel Session II-2** **(Vacuum and Miscellaneous Technologies)** *Venue: Vikram Sarabhai Hall*	**Parallel Session II-3** **(FEL and Power Supplies Technology)** *Venue: Homi Sethna Hall*
14:00 - 14:15	Space Charge Compensation Studies of Low Energy High Intensity Beam *Pallavi Priyadarshini*	Characterization of Tellurium thin film using Rutherford backscattering spectrometry *Upasana Bordoloi*	Power supplies for solid state RF amplifiers *M. K. Badapanda*
14:15 - 14:30	Study of Beam Resonances in MEHIPA-1 *Rajni Pande*	Design and simulation of liquid target for the production of F18 isotope using 18 MeV proton beam *Javed Akhter*	Characterization of Lasing of the Infra-red Free Electron Laser at RRCAT *Sona Chandran*
14:30 - 14:45	Physics Design Considerations for Booster Synchrotron of Indus-3 *Ali Akbar Fakhri*	A unique insitu ion irradiation cum High Resolution RBS and Channeling facility at Materials Science Group, IGCAR, *B. Sundaravel*	Pulsed Power Supply for High-Field Solenoid in Laser-Plasma-Accelerated Proton Beam Transport, *S. Nigam*
14:45 - 15:00	Progress on Lattice Design Studies of the Storage Ring of Indus-3: A High Brilliance Synchrotron Radiation Source, *Riyasat Husain*	Status of S and X- Band RF Electron Linac based X-Ray Source development for Applications in Security and Healthcare *Jayanta Mondal*	Experimental determination of bunching phase by measuring beam loading in the 476 MHz sub-harmonic pre-buncher cavity in the IR-FEL setup, *Tushar Dave*
15:00 - 16:00	**Oral Poster presentations - I**	**Oral Poster presentations - II**	**Oral Poster presentations- III**
16:00 - 18:00	**Tea and Poster Session – I** *Venue: Poster Gallery*		
18:00-18:45	**Evening Lecture** *Venue: Homi Bhabha Auditorium* Design challenges for a large ring Synchrotron Light Source, *Pantaleo Raimondi*		
19:00-21:00	**Cultural Program** *Venue: Homi Bhabha Auditorium*		
21:00 – 22:00	**Dinner**		

Day-2: Thursday, 27 March 2025			
09:00 - 10:30	**Technical Session III** *Venue: Homi Bhabha Auditorium*		
09:00 - 09:30	Status of Indus Synchrotron Radiation Sources, *T. A. Puntambekar*		
09:30 - 10:00	Particle accelerators of VECC – Present & Future, *Arup Bandopadhyay*		
10:00 - 10:30	Role of Accelerators in Mutation Breeding Program, *P A Hassan*		
10:30 - 11:00	**Tea Break**		
11:00 - 12:40	**Technical Session IV** *Venue: Homi Bhabha Auditorium*		
11:00 - 11:30	Use of Accelerators in Studying Irradiation Damage in Structural Nuclear Materials, *Raghvendra Tewari*		
11:30 - 11:50	Roadmap of Integrated RF Systems for Ion Accelerators at BARC, *Manjiri Pande*		
11:50 - 12:20	Industry presentations		
12:20 - 12:40	Development of undulators and solenoids for accelerator based light sources, *Gautam Sinha*		
12:40 - 14:00	**Lunch**		
14:00 - 1600	**Technical Session V** **(3 parallel sessions)**		
	Parallel Session V-1 **(Beam diagnostics)** *Venue: Homi Bhabha Auditorium*	**Parallel Session V-2** **(RF and Magnet Technology)** *Venue: Vikram Sarabhai Hall*	**Parallel Session V-3** **(Accelerator Controls)** *Venue: Homi Sethna Hall*
14:00 - 14:15	Experimental study of proton beam emittance in multispecies beam for MEHIPA *H. M. Kewlani*	Experiences of Designing Solid-state RF Power Amplifiers at Various Power Levels and Frequencies for RF Accelerators *B. V. Ramarao*	Development of Universal Digital RF Controller for Accelerators at IUAC, *Ashish Sharma*
14:15 - 14:30	Machine learning algorithm for beam profile monitoring in high intensity linac *Monika*	Development of a Compact, High Performance, 6.0 MW S-Band Microwave System for 10 MeV, 15 kW Electron Linac *T. Reghu*	Design and Development of Digital PLL Based Precision LLRF System for Future Accelerators *Dheeraj Sharma*
14:30 - 14:45	Generalized 4D Phase Space Reconstruction Method Concatenated with Particle Tracking code, *Sangay Tempoo Bhutia*	Design Basis and Power Combining scheme for CW 40 kW-650 MHz Solid State RF Amplifier (SSA) installed at Cryo Module Test Facility (CMTF), Fermilab and developed at RRCAT, *Alok Kumar Gupta*	Laser and RF synchronization using up-conversion scheme for Free Electron Laser based THz facility at IUAC *Joydeep Karmakar*
14:45 - 15:00	Beam Orbit Correction for Beamline Users of the Upgraded Indus-1 Storage Ring *B. B. Shrivastava*	Electromagnetic Design optimization & multi-physics coupled studies for Electromagnet for S-Band Klystron *Kumud Singh*	Design of Low Level RF Control System to Meet Demanding Requirements of Proposed High-Brilliance Synchrotron Radiation Source *Pritam S. Bagduwal*
15:00 - 16:00	**Oral Poster presentations - IV**	**Oral Poster presentations - V**	**Oral Poster presentations - VI**
16:00 - 18:00	**Tea and Poster Session – II** *Venue: Poster Gallery*		
18:15-20:15	**Cultural Program** *Venue: Homi Bhabha Auditorium*		
20:15-21:15	**Dinner**		

Day-3: Friday, 28 March2025	
09:00 - 10:30	**Technical Session VI** *Venue: Homi Bhabha Auditorium*
09:00 - 09:30	Proton Accelerator activities at RRCAT, *Mahendra Lad*
09:30 - 10:00	RRCAT E-Beam Technology: Involving Indian Industry – Opportunities and Challenges, *Jishnu Dwivedi*
10:00 - 10:30	An Update on High Brilliance Synchrotron Radiation Source (HBSRS): Indus-3, *Mangesh Borage*
10:30 - 11:00	**Tea Break**
11:00 - 12:30	**Technical Session VII** *Venue: Homi Bhabha Auditorium*
11:00 - 11:20	Design of Indus-3 Storage Ring Ultra-High Vacuum System Compatible with Seven Bend Achromat Lattice, *D P Yadav*
11:20 - 11:40	Development of ion sources and low energy proton accelerators at RRCAT, *Vijendra Prasad*
11:40 - 11:50	Industry Presentation
11:50 - 12:10	Control System of Indus Accelerators: Progress and Future Directions, *R. K. Agrawal*
12:10 – 12:30	Electron Accelerator Research for Societal Applications at SAMEER, *Abhay Deshpande*
12:30 - 14:00	**Lunch**
1400 - 16:00	**Technical Session-VIII** *Venue: Homi Bhabha Auditorium*
14:00 - 14:20	Science using High Brilliance Synchrotron Radiation Source (HBSRS): Indus-3, *Tapas Ganguli*
14:20 - 14:40	Recent developments in Power Supplies for Accelerators at RRCAT, *Yash Pal Singh*
14:40 - 15:20	Industry Presentation
15:20 - 15:40	High Current Injector: Present Status and Roadmap Ahead, *Rajeev Mehta*
15:40 - 16:00	Challenges in precision survey and alignment of large accelerators, *R K Sahu*
16:00 - 18:00	**Tea and Poster Session - III** *Venue: Poster Gallery*
20:00-21:00	**Banquet**

Day-4: Saturday, 29 March 2025			
09:00 - 10:30	**Technical Session IX** *Venue: Homi Bhabha Auditorium*		
09:00 - 09:30	Role of Accelerator Driven Sub-critical System in Indian Nuclear Energy Programme, *K. P. Singh*		
09:30 - 09:50	Advanced manufacturing techniques for accelerator components, *Abhay Kumar*		
09:50 - 10:10	IR-FEL Operation for High Average Power and First User Experiments, *Bhaskar Biswas*		
10:10-10:30	Super Conducting Cavity Infrastructure at RRCAT, *Sanjay Chouksey*		
10:30 - 11:00	**Tea Break**		
11:00 - 12:40	**Technical Session X** *Venue: Homi Bhabha Auditorium*		
11:00 - 11:30	Cryomodule Technology Development at RRCAT and Cryogenic Engineering Spin-offs: an Overview, *Prashant Khare*		
11:30 - 11:40	Industry Presentation		
11:40 - 12:40	Thesis Presentation		
12:40 - 14:00	**Lunch**		
14:00 - 1500	**Technical Session XI** **(3 parallel sessions)**		
	Parallel Session XI-1 (SCRF and Cryogenic Technology) *Venue: Homi Bhabha Auditorium*	**Parallel Session XI-2** (Accelerator Operation) *Venue: Vikram Sarabhai Hall*	**Parallel Session XI-3** (Oral Poster) *Venue: Homi Sethna Hall*
14:00 - 14:15	Development of Plasma Processing Technique for SCRF Cavities at RRCAT *Vikas Kumar Jain*	Operational Challenges and Solutions in RF Cavities at IUAC's HCI Facility: RFQ, DTL, and Spiral Buncher *Sugam Kumar*	**Oral Poster presentations - VII**
14:15 - 14:30	Status of K500 Superconducting Cyclotron at VECC, Kolkata *Atanu Dutta*	Initial Testing of Indigenously Developed VME-bus based Digital BPI 'Nayan' for FOFB Application in Indus-2 *Rishi Pal Yadav*	
14:30 - 14:45	Development of indigenous 4K class cryocooler for cryogen free applications *Rajvir Singh Doohan*	Operation and Recent Developments in the K130 Room Temperature Cyclotron at VECC *A. Goswami*	
14:45 - 15:00	Fabrication of Superconducting Niobium Resonators at IUAC *Kishore Kumar Mistri*	Development of Single Button Operation Scheme for Indus-2 *Bhavna Nitin Merh*	
15:00 - 16:00	**ISPA Felicitation, Prize distribution and ISPA GBM** *Venue: Homi Bhabha Auditorium*		
16:00 - 16:30	High Tea		
16:30 - 17:00	**Concluding Session and Feedback**		

Oral Poster Presentations – I (*Beam Dynamics*) (Parallel Session-II-1) 15:00 -16:00 hrs, 26 Mar-2025			
Sr.	**ID**	**Paper title**	**Presenting author**
1	671	Beam optical design and optimization of Second order 90-degree achromatic bend for electron beams	Manya Yadav
2	759	Beam dynamical study of 50 MeV proton driver Cyclotron for ANURIB project	Atanu Dutta
3	762	Study of effects of spherical aberration due to solenoids on high intensity proton beam in MEHIPA-I LEBT	Abhishek Padhi
4	769	Design and Optimization Studies for MEHIPA-1 RFQ	Manas Ranjan Mishra
5	783	Focusing and Transport of Laser-Plasma Accelerated Proton Beam using Two High-Field Pulsed Solenoids	Shivangi Bidoliya
6	789	Simulation and design of beam chopper for MEHIPA	Samir Ranjan Sahoo
7	923	Injection cell design to improve dynamic aperture to facilitate injection schemes in Indus-3 storage ring lattice	Suraj Prakash
8	930	Energy loss per turn by electron due to synchrotron radiation up to second order in momentum off-set	Amalendu Sharma
9	939	Preliminary Physics Design of 500 MeV Pre-injector Electron Linac for Proposed Indus-3	Parul Arora
10	944	Preliminary lattice design studies for the Proton Therapy Synchrotron	Pradeep Kumar
11	954	Optimization and Beam Dynamics Studies for ADS Target Facility at VECC Kolkata	Himanshu Bisht
12	958	Preliminary Physics Design of Energy Filtering System for 500 MeV Pre-injector Linac for Indus-3	Divyansh Pandey
Oral Poster Presentations – II *(Cyclotron, Particle Sources and Irradiation Facilities* **(Parallel Session-II-2) 15:00 -16:00 hrs, 26 Mar-2025**			
1	686	The design of a 30 MeV constant tune cyclotron	Arup Ratan Jana
2	704	Development of Magnetic Field Mapping System for upcoming 18 MeV Medical Cyclotron	Siddharth V Pratihast
3	701	Ion Beam Techniques for Analysis the Materials Using 1.7 MV Tandem Accelerator	Umapathy G R
4	719	Design of Beam Line for Quasi-Monoenergetic Neutron Beam Facility Using VECC Medical Cyclotron Cyclone 30	Chiranjib Das
5	760	Design and Simulation of 10 GHz ECR ion source using all permanent magnets	Sandeep Kashyap
6	804	Development of High Voltage Pulsed Power Supply for biasing of Multiplasmatron Ion Source	Kapil Motwani
7	868	Quality Management Aspects of Electron Beam Radiation Processing Facility for Sterilization of Medical Devices	Vijay Pal Verma
8	916	Establishment of Process Integrity at Electron Beam Radiation Processing Faculty	Vijay Pal Verma
9	959	Simulation of High Energy Proton Beam-Induced Heating in Structures Using FLUKA and COMSOL Multiphysics	Santhosh Chittimalla
10	970	Design and Development of High current Electron Gun	Love Mishra
11	911	Hybrid Cooling Scheme for Indus-2 Coolant System	Manitosh Kumar Singh
12	1030	Exploring the Performance of a 2.45 GHz ECRIS for Deuteron Ion Beam Generation in Continuous and Pulse Modes	Sudhirsinh Vala

Oral Poster Presentations –III (*Power Supplies and Magnet Tech.*) (Parallel Session-II-3) 15:00 -16:00 hrs, 26 Mar-2025			
Sr.	**ID**	**Paper title**	**Presenting author**
1	648	Design and Development of a Digitally Controlled Water-Cooled DC Power Module for Solid State RF Amplifier	Akhilesh Tripathi
2	651	Development and Testing of resonant converter based 50 V, 50 A water cooled DC power module	Sachin Rathi
3	703	Installation, testing and study of biasing power supplies system at 300kV for electron gun of ANURIB facility at VECC	Yashwant Kumar
4	795	Development Efforts for a 20 kV High Voltage Series Switch with Modified Snubber Technique for PFN Modulator Applications	Mahesh Acharya
5	808	Digital Controller and Machine Control Interface Module for Magnet Power Converters	Alok Singh
6	815	Development and testing of a cryostat for qualification of superconducting magnets for insertion devices	S. L. Nidhin
7	875	Development of 135 A/150 V DC Power Supply for Wave Length Shifter Magnets based on Performance of Scaled-down Power Converter Scheme	Aradhana Kumari
8	906	Development of linear ramp, high current pulsed power supply for Infra-red Free Electron Laser (IR-FEL) steerer magnet	Amresh Chandra Pandey
9	910	Development and testing of 120 kV split core pulse transformer for klystron pulse modulator	Akhil Patel
10	962	Design of Solenoids for 500 MeV Injector Linac for the proposed High Brilliance Synchrotron Radiation Source: Indus-3	Subrata Das
11	996	Quench Simulation Studies and experimental quench performance evaluation of superconducting solenoids for spoke resonator cryomodule for PIP-II	Kumud Singh
12	1004	Development of a multipurpose magnetic field measurement bench	Gautam Sinha

Oral Poster Presentations –IV (*SCRF Technology*) (Parallel Session-V-1), 15:00 -16:00 hrs, 27 March-2025			
1	673	Development of 325 MHz Single Spoke Resonator-2, Manufacturing challenges and Solutions	Aarti Chaudhary
2	775	Electro-mechanical Modeling of superconducting RF cavity	Sweta Agarwal
3	812	Design, Modeling and Fabrication of Electron beam welding fixture for SS QWR prototype	A A Shinde
4	839	Cryogenics Operation 2 K Test Facilities for Superconducting RF cavities at RRCAT	Manoj Kumar
5	856	Calculation of Heat Dissipation during Electro-polishing of SCRF Cavities	Komma Gnana Spoorthy
6	887	Development of Second Sound based Quench Detection diagnostic system for SCRF Cavities being processed at RRCAT	S V Kokil
7	901	Nitrogen doping of Nb samples and its characterization studies for effective processing of Superconducting RF cavities at RRCAT	A. Bose
8	905	Efforts towards fabrication of 650MHz SCRF cavity using Pulsed Nd:YAG Laser	Abhishek Jain
9	927	Development of Horizontal Test Stand (HTS) cryostat and shipment to Fermilab, USA	Rupul Ghosh
10	933	Forming limit curve (FLC) by Nakajima test on ETP copper samples for MEHIPA-I SSR-B structures	Roushan Abhishek
11	1009	Comparative Analysis of Various Thermal Links for Conduction-Cooled 650 MHz Single Cell SCRF Cavity	Hemant Kumar Patel
12	1016	Initial Efforts in Development of Nb3Sn Based SCRF Cavities for Particle Accelerator	Manish Bagre

Oral Poster Presentations –V (*Accelerator Controls*) (Parallel Session-V-2) 15:00 -16:00 hrs, 27 March-2025			
Sr.	**ID**	**Paper title**	**Presenting author**
1	857	Low Level RF Control Activities for Accelerators at RRCAT	Nitesh Tiwari
2	646	Design and Development of FPGA based digital controller for current sharing between DC Power Supplies of RF Amplifiers	Pankaj Gothwal
3	654	Evaluation of CI/CD pipeline for EPICS IOC	Radhika Nasery
4	668	Development of Beam Phase-Locking Electronics for Pelletron Beam Pulsing System at IUAC	V V S Venna
5	672	EPICS Based Linac Beam Transportation & Diagnostic System	C Rozario
6	710	Control System for H- Ion Source of 18-MeV Medical Cyclotron	Siddharth V Pratihast
7	788	Iterative Learning Controllers for Beam Loading Compensation	Rajesh Keshwani
8	825	Automatic Calibration Factor Measurement System	Saurabh
9	645	Design and Development of standalone SoC-FPGA-Based distributed LLRF System for Next-Generation Accelerators	Ekansh Mishra
10	866	Development and Commissioning of Software for Indus-1 Slow Orbit Feedback (SOFB) System	Rahul Rana
11	1013	Design and Development of VME32 based Trigger Generator and Scanning Magnet Power Supply Control Board for LINAC	P. Maheshwari
12	1015	Development of VME32 based Fast Current Transformers DAQ card with Advanced In-application Calibration and Pulse-by-Pulse Parameter Measurement for LINAC Operating at a 300 Hz Pulse Repetition Rate	Anand Kumar
Oral Poster Presentations –VI (*Beam Diagnostics, Vacuum Tech. and Accel. Development*) (Parallel Session-V-3) 15:00 -16:00 hrs, 27 March-2025			
1	620	Design and Development of a Multichannel nano Ammeter for measuring electron current in e-LINAC system in RIB, VECC	Mou Chatterjee
2	990	Development of Multi-Layer High Voltage DC Waveguide Break at 2450 MHz Frequency for ECR Proton Source	Manish Pathak
3	687	Fuzzy Inference System based Performance evaluation of Radiation Facilities in India using Regulatory Inspection Data - A Case Study for operating Medical Cyclotrons	Suvadip Roy
4	715	Vacuum System Design for an 18 MeV Medical Cyclotron	Javed Akhter
5	718	Beam Diagnostics in High Current Injector at IUAC Delhi: Present and Future	Dr Rajesh V Hariwal
6	727	Detection of complex Multi-micro bunch structure using the in-house developed faraday cup at Delhi Light Source	Bappa Karmakar
7	729	Design, Development and Characterization of Retarding Field Analyzer	Pallavi Priyadarshini
8	861	Installation, Commissioning and Operational Optimization of Upgraded Frequency Tuning System for Booster Cavity	Nitesh Mishra
9	876	Design, development & installation of upgraded vacuum system of Indus-1	B.K. Sindal
10	890	Characterization of the electron beam from the injector linac of the infra-red free electron laser (IR-FEL) at RRCAT	R. S. Saini
11	1019	Development of Interferometer based Electron Beam Size Measurement System for Indus-2	Akash Deep Garg
12	1020	Mechanical Design, Development and Installation of Strip-line Kicker and Pick-up for Tune Measurement and Feedback System for Indus-1	A. K. Karnewar

Oral Poster Presentations –VII (*RF Source, RF structure Design and Characterization*) (Parallel Session-XII-3) 14:00 -15:00 hrs, 29 March-2025			
Sr.	**ID**	**Paper title**	**Presenting author**
1	622	Fabrication and Testing of Indigenously designed 325 MHz, tetrode tube pulse RF power amplifier	Gaurav Kanyal
2	652	AC power distribution of 40 kW, 650 MHz solid state RF amplifier	Rinki Upadhyay
3	681	Qualification Test of High Power Solid State RF Amplifier Module	Vikas Rajput
4	764	Electromagnetic design of HOMs Coupler for a 325 MHz SSR (SSR-C) cavity for Multipactor suppression application	Alok Kumar Ghosh
5	772	Effect of beam bunch length on beam coupling impedance of bending magnet chamber in Indus-3	Manish Kumar Singh
6	790	Upgradation of the Motor Driving Technique in Indus-2 RF Cavity Tuning Cage Mechanism	Ashish Bohrey
7	824	Development of an FPGA based Pulsed Variable Frequency Generator System for RF based Ion Source Ignition	Ashwin Chalisgaonkar
8	774	Development and installation of S-Band LLRF System for 10 MeV, 15 kW electron linear accelerator LINAC-4 at RRCAT	Ashish Mahawar
9	976	Low Power RF characterization of 9.5 MeV, 15 kW Traveling Wave Electron Accelerating Structure Assembly at RRCAT	R. Dhingra
10	977	Physics design and multipacting suppression studies for a loop-type power coupler for 325 MHz Drift Tube Linac	Sachin Raturi
11	982	Low power characterization of the prototype $\beta_g = 0.11$ single spoke resonator	Mukesh Kumar Pal
12	987	Addressing Multipacting Challenges in a High-Power Klystron RF Window	Mentes Jose

Posters Presentations

Poster Session-1 -16:00 – 18:00 Hrs, Wednesday, 26 March 2025,

Contributory Posters			
S.N.	**ID**	**Title**	**Author name**
1	978	Study of a Distance Measurement Based 3D Coordinate Determination Method for Precise Alignment of Magnets on a Girder	Vikas
2	816	High-Energy X-Ray Diffraction Using a 3 MV Tandem Pelletron Accelerator: Experimental Setup and Capabilities	B. Mallick
3	1027	AI-Driven Security: Real-Time Detection of Threat Objects in Airport X-ray Scans	Mansarovar Bajrang
4	624	Design and Prototype Implementation of a Observer pattern-based Data Archiver for MEHIPA Accelerator	SANDEEP BHARADE
5	625	Real-time monitoring and control of tube-based RF Power Transmitters using PLC and LabVIEW	Arihant Kumar Jain
6	631	Low Level Protection and Driver Unit for 40 kW, 650 MHz, Solid State Amplifier	Deeksha Vyas
7	641	Design and Implementation of PLC and EPICS based control, monitoring and automatic switching of power sources for Super Conducting Cyclotron at VECC, Kolkata	Abhishek Dutta

8	659	Protection and Interlock system for indigenous Klystron developmental efforts	Sujo C I
9	662	EPICS based control system for e-LINAC in RIB facility at VECC	Shantonu Sahoo
10	691	Development of Embedded EPICS IOC for SoC-FPGA based designs at IUAC	Yatesh Dabas
11	692	REMOTE CONTROL STATION FOR LINAC FOIL STRIPPER at PLF, Mumbai	J. N. Karande1
12	706	Upgradation of Control System for Room Temperature Cyclotron at VECC using Control System Studio	Siddharth Vardhan Pratihast
13	725	Control System Upgradation of FOTIA	Arindam Basu
14	742	Design of a GUI and interfacing software of an automated test equipment (ATE) for RF testing	Snigdha Singh
15	806	Development of Automated Hardware and Software Control Application of Stepper Motor Based 3-Axis Motion Stage for Magnetic Field Mapping Of Hydrogen Ion Source Magnets	Rohit Mishra
16	829	Design and Development of Control System for Double Crystal Monochromator for Synchrotron Beamlines	Pardeep Kumar
17	831	SCADA System for Engineering Applications (BL-02) beamline of Indus-2	Sarthak Gupta
18	850	Development of State Space Compensator Auto tuning framework using Neural Network and Model Reference Adaptive Control	Mustafa Saifee
19	853	MongoDB database for fast data logging in Indus-2	Abhisek Nayak
20	855	PostgreSQL based data platform for LINAC-4 on Enterprise Linux	Abhisek Nayak
21	859	Development of Control System Application Software for 10MeV 15kW Linac-4	Jatin D. Jotangia
22	864	Development of Serial-bus Communication Analyzer System	Anand Valecha
23	867	Control System for Indus-1 Magnet Power Supplies (MPS)	Rahul Rana
24	878	Enhancements in Indus-2 Machine Safety and Interlock System (MSIS)	Jaiprakash Jidee
25	884	Development of Indus-1 Beam Line Front End Control System	Janardhan M
26	929	Development of Real Time Software Modules for Solid State RF Amplifier Control System	Kriti Pathak
27	947	Design and Development of Cryogenics Control System	Manoj Kumar Meena
28	1021	Deployment of Time Servers in LEHIPA for Efficient Data Logging and System Coordination	Namrata Joshi
29	931	Development of Treatment Technique for Cooling Tower Water to Minimize Scale Formation and Sustaining Heat Transfer Efficiency of the System	Bablu Tiwari
30	690	Status of Development of 18 MeV H- Cyclotron at VECC	Chinmay Nandi
31	992	STATUS OF HIGH ENERGY LINAC FOR MEDICAL AND OTHER APPLICATION	Tanuja Dixit
32	892	Optimizing HVAC system performance through advanced automation and energy efficiency	Swarnim Sharma
33	998	Impact of Power Quality Monitoring on Critical Research Facilities and It’s Integration with Data Management Systems.	Nishant Mishra
34	655	OPERATION OF THE SUPERCONDUCTING HEAVY ION LINAC AT IUAC	ASHUTOSH PANDEY
35	667	Beam Tuning Process and its Optimization for High Current Injector at IUAC	Sarvesh Kumar
36	709	Sustaining the voltage gradient in accelerating tubes at Low Energy Ion sources: operational experiences	Mukesh Kumar
37	733	Experiences with Beam Testing and Operation of IUAC’s High Current Injector	Sugam Kumar

38	738	The effect of RT vacuum on accelerated beam in K130 Cyclotron	Subhash Ghosh
39	899	Operation, maintenance activities and recent developments in the electrostatic accelerators at Indira Gandhi Centre for Atomic Research, Kalpakkam	K.Suresh
40	949	Status Report of FOTIA Facility at BARC	N B V Subrahmanyam
41	994	Beam Testing with the prototype Heavy ion RFQ	N. Mehrotra
42	683	Indigenously developed Device Instrumentation for Faraday Cups and Beam Line Vacuum Isolation Valves for Ion Accelerators	CHANDRA PAL
43	702	Electronics Development for Linac at IUAC	Devendra Singh Mathuria
44	913	Development of automated test bench for qualification of RF Front End (RFFE) electronics of Digital Beam Position Monitors (DBPMs)	Ankita Kumari
45	628	Matched envelope solutions and envelope modes of intense beam in periodic focusing lattice	Animesh Goswami
46	682	Three dimensional envelope instability model to calculate the instability stopband for the proposed SSR-B lattice of MEHIPA	Abhyudaya Tomer
47	720	Design of Beam Lines for Neutron and Gamma Spectroscopy at K500 Superconducting Cyclotron	Chiranjib Das
48	743	Beam Optics in Achromatic and Isochronous Transport Systems	Rimsha Arif
49	750	Particle-in-cell simulations of laser wakefield plasma acceleration	Niketan Jakhar
50	770	Electrostatic Low Energy Beam Transport for H- ion source	Yogesh
51	771	Design of High Energy Beam Transport lines for LEHIPA Beam Utilization	Sri Ram G
52	800	Lattice optimization of Superconducting SSR-B linac for MEHIPA	Shweta Roy
53	852	Injector System Design for the Proposed Extension of Free Electron Laser Wavelength Range for User Experiments	Arvind Kumar
54	920	Preliminary Simulation Studies on Linear Optics and Coupling Correction in Indus-3 Storage Ring Lattice	Suraj Prakash
55	921	Beam Emittance Reduction with Longitudinal Gradient Bends and Reverse Bends in Indus-3 Storage Ring Lattice	Suraj Prakash
56	924	Effect of Magnetic field Tracking Errors on Beam Dynamics for Indus-3 Booster Synchrotron	V K Meena
57	925	Design Studies of a 500 MeV Linac to Booster Transport Line for Injection into Booster Synchrotron of Indus-3	Pradyumna Gupta
58	928	RF Loading effects of Field emission current in the SRF cavities	Ram Prakash
59	934	Longitudinal Dynamics Studies for Multiple Bunches in Accumulator Ring for proposed Indian Facility for Spallation Research	Urmila Singh
60	940	Studies for Transparent Beam Injection in Indus-3	Pradeep Kant
61	945	Modified Bunch Filling Scheme for Indus-1	Sanjay Kumar Prajapati
62	946	Effect of Bunch Gaps on the Performance of Third Harmonic Cavity in the Storage Ring of Indus-3	Deepak Kumar Tyagi
63	951	Comparative Studies of Single Bunch Instabilities for the Injection Energy of 200 and 500 MeV in Indus-3 booster	Abdurrahim
64	952	Effect of higher order momentum compaction factor on energy acceptance of Indus-3 storage ring	Abdurrahim
65	961	Impact of Betatron Oscillations on Gain in Waveguide Free Electron Lasers with Harmonic Undulator Scheme	Rajesh Agrawal
66	964	Double-Bend Achromat Lattice for Booster Synchrotron of Indus-3	Kavita Bhatt

67	974	Touschek Lifetime and IBS Studies for the Indus-3 Storage Ring	Monika Rana
68	986	Space-charge-Induced oscillations in the matched envelope of the FODO lattice in the Accumulator Ring	C. B. Patidar
69	1000	Simulation studies of an energy filtering system with three dipole magnets	Ritesh Malik
70	1025	Beam optics calculations for three-magnet based energy filtering system for an industrial electron linac	Divyansh Pandey
71	658	Central region study of 50 MeV proton driver cyclotron for ANURIB project	Atanu Dutta
72	751	Magnetic Field Symmetry and its Correlation to Magnet Center for Magnetic field analysis in a Cyclotron	Adarsh Ramtel, Jedidiah Pradhan
73	805	Present Status report of 30MeV Medical cyclotron Facility at VECC, Kolkata	Suprakash Roy
74	716	Installation and initial testing of the photocathode deposition system for Delhi Light Source facility at IUAC	P Patra
75	882	Optimization of the IR-FEL for the first trial experiments by users	Bhaskar Biswas
Contributory Oral Posters (*Beam Dynamics*)			
76	671	Beam optical design and optimization of Second order 90-degree achromatic bend for electron beams	Manya Yadav
77	759	Beam dynamical study of 50 MeV proton driver Cyclotron for ANURIB project	Atanu Dutta
78	762	Study of effects of spherical aberration due to solenoids on high intensity proton beam in MEHIPA-I LEBT	Abhishek Padhi
79	769	Design and Optimization Studies for MEHIPA-1 RFQ	Manas Ranjan Mishra
80	783	Focusing and Transport of Laser-Plasma Accelerated Proton Beam using Two High-Field Pulsed Solenoids	Shivangi Bidoliya
81	789	Simulation and design of beam chopper for MEHIPA	Samir Ranjan Sahoo
82	923	Injection cell design to improve dynamic aperture to facilitate injection schemes in Indus-3 storage ring lattice	Suraj Prakash
83	930	Energy loss per turn by electron due to synchrotron radiation up to second order in momentum off-set	Amalendu Sharma
84	939	Preliminary Physics Design of 500 MeV Pre-injector Electron Linac for Proposed Indus-3	Parul Arora
85	944	Preliminary lattice design studies for the Proton Therapy Synchrotron	Pradeep Kumar
86	954	Optimization and Beam Dynamics Studies for ADS Target Facility at VECC Kolkata	Himanshu Bisht
87	958	Preliminary Physics Design of Energy Filtering System for 500 MeV Pre-injector Linac for Indus-3	Divyansh Pandey
Contributory Oral Posters *(Cyclotron, Particle Sources and Irradiation Facilities*			
88	686	The design of a 30 MeV constant tune cyclotron	Arup Ratan Jana
89	704	Development of Magnetic Field Mapping System for upcoming 18 MeV Medical Cyclotron	Siddharth V Pratihast
90	701	Ion Beam Techniques for Analysis the Materials Using 1.7 MV Tandem Accelerator	Umapathy G R
91	719	Design of Beam Line for Quasi-Monoenergetic Neutron Beam Facility Using VECC Medical Cyclotron Cyclone 30	Chiranjib Das
92	760	Design and Simulation of 10 GHz ECR ion source using all permanent magnets	Sandeep Kashyap
93	804	Development of High Voltage Pulsed Power Supply for biasing of Multiplasmatron Ion Source	Kapil Motwani
94	868	Quality Management Aspects of Electron Beam Radiation Processing Facility for Sterilization of Medical Devices	Vijay Pal Verma

95	916	Establishment of Process Integrity at Electron Beam Radiation Processing Faculty	Vijay Pal Verma
96	959	Simulation of High Energy Proton Beam-Induced Heating in Structures Using FLUKA and COMSOL Multiphysics	Santhosh Chittimalla
97	970	Design and Development of High current Electron Gun	Love Mishra
98	911	Hybrid Cooling Scheme for Indus-2 Coolant System	Manitosh Kumar Singh
99	1030	Exploring the Performance of a 2.45 GHz ECRIS for Deuteron Ion Beam Generation in Continuous and Pulse Modes	Sudhirsinh Vala
Contributory Oral Posters (*Power Supplies and Magnet Tech.*)			
100	648	Design and Development of a Digitally Controlled Water-Cooled DC Power Module for Solid State RF Amplifier	Akhilesh Tripathi
101	651	Development and Testing of resonant converter based 50 V, 50 A water cooled DC power module	Sachin Rathi
102	703	Installation, testing and study of biasing power supplies system at 300kV for electron gun of ANURIB facility at VECC	Yashwant Kumar
103	795	Development Efforts for a 20 kV High Voltage Series Switch with Modified Snubber Technique for PFN Modulator Applications	Mahesh Acharya
104	808	Digital Controller and Machine Control Interface Module for Magnet Power Converters	Alok Singh
105	815	Development and testing of a cryostat for qualification of superconducting magnets for insertion devices	S. L. Nidhin
106	875	Development of 135 A/150 V DC Power Supply for Wave Length Shifter Magnets based on Performance of Scaled-down Power Converter Scheme	Aradhana Kumari
107	906	Development of linear ramp, high current pulsed power supply for Infra-red Free Electron Laser (IR-FEL) steerer magnet	Amresh Chandra Pandey
108	910	Development and testing of 120 kV split core pulse transformer for klystron pulse modulator	Akhil Patel
109	962	Design of Solenoids for 500 MeV Injector Linac for the proposed High Brilliance Synchrotron Radiation Source: Indus-3	Yuvraj Parashar, Subrata Das
110	996	Quench Simulation Studies and experimental quench performance evaluation of superconducting solenoids for spoke resonator cryomodule for PIP-II	Kumud Singh
111	1004	Development of a multipurpose magnetic field measurement bench	Gautam Sinha

Poster Presentations

Poster Session-2: 16:00 – 18:00 Hrs, Thursday, 27 March 2025

		Contributory Posters	
S.N.	**ID**	**Title**	**Author name**
1	623	Development of Synchrotron Radiation Beam Polarization Measurement Setup and Polarization Measurements at Indus-1 Reflectivity Beamline	P. K. Yadav
2	653	Measurement of beam emittance in K130 Room Temperature Cyclotron at VECC	Debasis Sinhamahapatra
3	669	Charge State Distribution Studies of Mid-Range Masses in Energy Ranges (0.357-1.797) MeV/u using 15UD Pelletron at IUAC, New Delhi	Ritu Rani
4	688	Design and Development of Faraday Cup for measurement of ion beam current of DC beam	HIMANSHU BISHT
5	689	Detection Scheme for Terahertz at Delhi Light Source facility	Madhuri Aggarwal
6	693	Formalism for Measuring Transverse Emittance and Energy Spread of ECRIS extracted ion beam using Einzel Lens Scan Method	Sanket Haque,
7	697	Design and development of the Allison scanner for 18 MeV Medical Cyclotron	Javed Akhter
8	755	Design studies of cold beam position monitors for MEHIPA	Pavan Joshi
9	822	Development of a sensitive ion beam profiling system and its electronics for a low energy electrostatic accelerator	K.Suresh
10	823	Design and Development of FCT for Online Beam Current Measurement of ECR Proton Ion Source.	Karan Singh
11	874	Development of Upgraded Beam Position Monitor Calibration Setup with In-House Developed Signal Processing Electronics	Y.Tyagi
12	950	Design and Development of Bellow Integrated Beam Position Monitors (BPM) and Compact BPMs for Infrared Free Electron Laser Set-up	Ajay Kumar Soni
13	973	Software Development for Synchrotron Radiation Interferometer based beam size measurement system for Indus-	Avanish Ojha
14	991	Beam optics design for injection of 1+ beam into a Charge breeder source	M. Bhattacharjee
15	1006	Design of a Data Acquisition System and Graphical Interface for Beam Profile Monitors for a 1.7 MV Tandetron accelerator	K.Suresh
16	1010	Software Development for Online Monitoring and Spectral Analysis of Turn-by-Turn Beam Position Data for Pinger Magnets Based Machine Studies in Indus-2	R. Jain
17	1014	Installation and Commissioning of Beam Position Monitor Electronics of Upgraded Indus-1 Synchrotron Radiation Source	B. B. Shrivastava
18	678	Design of Hybrid Focusing Magnet for Indian Cargo Scanner-2	Deepak
19	717	Design, fabrication and testing of the main magnet solenoidal coils of the MC 18 cyclotron	Siddhartha Ghosh
20	724	Design, development, magnetic field measurement of the quadrupole magnets for 18 MeV Medical Cyclotron extraction beam line	Ankur Agrawal

21	731	Design, development and magnetic field measurement of a 10 MeV dipole magnet for Electron Linac at VECC	Md Zamal Abdul Naser
22	756	Design studies of short solenoid magnets for MEHIPA LEBT	Sanalnath V
23	768	Magnetic measurement and characterisation of combined quadrupole and dipole corrector for LB-HB section of PIP-II	Elina Mishra
24	776	3D Coupled Field Analysis of the Combined-Function Dipole-Quadrupole Magnet	Gautam Sinha
25	821	Development of a Series-Switch Unit for Quench Testing of Superconducting Magnets	Abhishek Srivastava
26	827	Preliminary Design of High Gradient Quadrupole Magnets with Anti-Bend for Proposed HBSRS at RRCAT	Kailash Ruwali
27	832	Design and Development of High Field Dipole magnet for MHD studies	Trivedi P
28	966	Design Study of Solenoids for the Proposed NEG Coating Facility for 6 meter Long Vacuum Chamber	Rohit Singh Negi
29	972	Electromagnetic Design of hybrid magnet for focusing beam at target spot for Indian Cargo scanner	Kumud Singh
30	997	Thermal Analysis of cryo-cooled superconducting magnet for SSR2 cryomodule	Janvin Itteera
31	1001	Development of the On-the-Fly Field Measurement Technique	Ritesh Malik
32	1003	Design and development of magic finger for undulator	B Srinivasan
33	665	Feasibility of C, Al, and Si Cluster Ion Beams for Experiments Using Low-Energy Negative Ion Implanter Facility at IUAC, New Delhi	DEEKSHA KHANDELWAL
34	670	Electromagnetic field profile Measurement of Deflector cavity and simulation study for longitudinal characterisation of 100 keV electron gun	Prasanta Kumar Jana
35	705	HTS ECR Ion source of High Current Injector: Operational experiences and developments	P. S. Lakshmy
36	726	Electromagnetic Design study and magnetic field measurement of SmCo(1:5) based cuboidal-type multi-cusp ion source	Ankur Agrawal
37	749	Design and Simulation of a Compact Indigenous Electron Beam Ion Source	Chandan Thakur
38	752	Design of compact extraction system for a multi-cusp ECR ion source	Monika
39	836	Development and Characterization of Waveguide Components for ECR Proton Ion Source at 2450 MHz Frequency	Yashwant Wanmode
40	863	Studies on Variation in Dark Current with Power Coupling at RF based H- Ion Source test setup	Rajnish Kumar
41	935	RF Power and plasma impedance measurements and variation in coupling efficiency at RF based H- Ion Source test setup	Om Prakash
42	983	Preliminary design of 90 keV electron gun for pre-injector linac of the envisaged 6 GeV Indus-3	Mukesh Kumar Pal
43	1031	Development of Two-axis Beam Profile Generation with Programmable Region of Interest and Integration Time	D. Narwat
44	637	Radiological experiences during commissioning of Infra-Red Free Electron Laser facility	T.K. Sahu
45	674	Radiation Safety and Interlocking Safety system at IUAC	Sejal Chandna
46	791	Photon dose mapping in Experimental hutches of SR beamlines in Indus-2	Dimple Verma
47	888	Shielding calculation methodology for high energy electron accelerators	M K Nayak
48	902	A preliminary study on streaming radiation through an open duct on roof of K130 Cyclotron vault during acceleration of	SATISH KUMAR MISHRA

		deuteron beam	
49	908	Calculation of Induced Activity in Light and Heavy Ion Reactions on Various Targets Using PACE4 Code	Kousiki Ghosh Jana
50	909	Radiation damage in insulation of quadrupole bus-bar at Indus-2	P. K. Sahani
51	835	Development and characterization of waveguide components for S-Band linear accelerator	Yashwant Wanmode
52	848	Design and Development of an Upgraded Microstrip Line Based, 8 Way RF Signal Distribution Unit for Indus-2	Narendra Kumar
53	883	Development of Multi-channel RF Power Monitoring System	Bhumeshwar Ponagani
54	948	Low power RF characterization and tuning of the second section of 3 MeV, 325 MHz RFQ at RRCAT	Rahul Gaur
55	664	Simulation and Development of 325 MHz 3-1/8 inch line DC return block	Kunver Adarsh Pratap Singh
56	680	RF characterization of 650 MHz SRF cavities at RRCAT VTS	Praveen Mohania
57	712	MEHIPA RFQ Thermo-structural-RF detuning Studies	Piyush Jain
58	721	Electromagnetic design study of shifted stem rod-type Heavy Ion RFQ	Partha Pratim De
59	722	Coolant channel design study for shifted stem rod-type Heavy Ion RFQ	Partha Pratim De
60	735	Design and Development of Load Pull Tuner for design of Amplifier module	Jitendra Kumar Mishra,
61	736	Design and Simulation of S Band 4-Port Circulator	Jitendra Kumar Mishra,
62	740	Design of 325 MHz stripline directional coupler for RF quadrupole applications	Manjeet Ahlawat
63	741	Design and electromagnetic modeling of S-band waveguide Y-junction ferrite circulator	Manjeet Ahlawat
64	757	Design of a 325 MHz Waveguide RF Window for MEHIPA	Mentes Jose
65	765	Design of HEBT Buncher Cavity for MEHIPA -1	Pijush Das
66	766	Multipacting simulation studies in a newly designed Superconducting Spoke Resonator (SSRB) cavity	Alok Kumar Ghosh
67	826	Design and Fabrication of components of 325 MHz Drift Tube Linac for Future High Energy Proton Accelerator	Pranav Paliwal
68	858	Design, development and RF tuning of a 3.6 cell photo-cathode RF gun	Shankar Lal
69	871	Design and Prototyping of Alignment Mechanism for Drift Tubes of 325 MHz DTL Structure	A. Chaturvedi
70	877	Design of 325 MHz Co-axial RF and DC block for MEHIPA couplers	Gireesh Narayan Singh
71	897	Status of Indigenous Development of 325 MHz Spoke Cavity (SR011) in RRCAT	Nitin Nigam
72	898	2D and 3D Simulation of a standalone swift heavy ion radio frequency quadrupole accelerator	Sruthy Varma Koyickal
73	932	Thermal-Structural-RF detuning studies of MEHIPA-I DTL	Roushan Abhishek
74	957	Cavity Shape Optimization Studies to Enhance RF to Beam Power Conversion Efficiency of Travelling Wave Electron Linac	Divyansh Pandey
75	969	Physics design studies of a high efficiency, on-axis coupled, standing wave electron linac for industrial applications	Rinky Dhingra
76	988	Design of high power RF Couplers for warm cavities of MEHIPA	Mentes Jose

77	1005	Q-factor measurement of collinear load cavities for e-beam LINAC	Karan Makwana
78	621	Up gradation of the control software of SCCECR in VECC Implementing EPICS in LABVIEW environment	Mou Chatterjee
79	862	Current Tracking Strategies for Booster Synchrotron Power Supplies: Challenges, Trends and Opportunities	Neha Srivastava & Man Mohan Garg
Contributory Oral Posters (*SCRF Technology*)			
80	673	Development of 325 MHz Single Spoke Resonator-2, Manufacturing challenges and Solutions	Aarti Chaudhary
81	775	Electro-mechanical Modeling of superconducting RF cavity	Sweta Agarwal
82	812	Design, Modeling and Fabrication of Electron beam welding fixture for SS QWR prototype	A A Shinde
83	839	Cryogenics Operation 2 K Test Facilities for Superconducting RF cavities at RRCAT	Manoj Kumar
84	856	Calculation of Heat Dissipation during Electro-polishing of SCRF Cavities	Komma Gnana Spoorthy
85	887	Development of Second Sound based Quench Detection diagnostic system for SCRF Cavities being processed at RRCAT	S V Kokil
86	901	Nitrogen doping of Nb samples and its characterization studies for effective processing of Superconducting RF cavities at RRCAT	A. Bose
87	905	Efforts towards fabrication of 650MHz SCRF cavity using Pulsed Nd:YAG Laser	Abhishek Jain
88	927	Development of Horizontal Test Stand (HTS) cryostat and shipment to Fermilab, USA	Rupul Ghosh
89	933	Forming limit curve (FLC) by Nakajima test on ETP copper samples for MEHIPA-I SSR-B structures	Roushan Abhishek
90	1009	Comparative Analysis of Various Thermal Links for Conduction-Cooled 650 MHz Single Cell SCRF Cavity	Hemant Kumar Patel
91	1016	Initial Efforts in Development of Nb3Sn Based SCRF Cavities for Particle Accelerator	Manish Bagre
Contributory Oral Posters (*Accelerator Controls*)			
92	857	Low Level RF Control Activities for Accelerators at RRCAT	Nitesh Tiwari
93	646	Design and Development of FPGA based digital controller for current sharing between DC Power Supplies of RF Amplifiers	Pankaj Gothwal
94	654	Evaluation of CI/CD pipeline for EPICS IOC	Radhika Nasery
95	668	Development of Beam Phase-Locking Electronics for Pelletron Beam Pulsing System at IUAC	V V S Venna
96	672	EPICS Based Linac Beam Transportation & Diagnostic System	C Rozario
97	710	Control System for H- Ion Source of 18-MeV Medical Cyclotron	Siddharth V Pratihast
98	788	Iterative Learning Controllers for Beam Loading Compensation	Rajesh Keshwani
99	825	Automatic Calibration Factor Measurement System	Saurabh
100	645	Design and Development of standalone SoC-FPGA-Based distributed LLRF System for Next-Generation Accelerators	Ekansh Mishra

101	866	Development and Commissioning of Software for Indus-1 Slow Orbit Feedback (SOFB) System	Rahul Rana
102	1013	Design and Development of VME32 based Trigger Generator and Scanning Magnet Power Supply Control Board for LINAC	P. Maheshwari
103	1015	Development of VME32 based Fast Current Transformers DAQ card with Advanced In-application Calibration and Pulse-by-Pulse Parameter Measurement for LINAC Operating at a 300 Hz Pulse Repetition Rate	Anand Kumar
Contributory Oral Posters (*Beam Diagnostics, Vacuum Tech. and Accel. Development*)			
104	620	Design and Development of a Multichannel nano Ammeter for measuring electron current in e-LINAC system in RIB, VECC	Mou Chatterjee
105	990	Development of Multi-Layer High Voltage DC Waveguide Break at 2450 MHz Frequency for ECR Proton Source	Manish Pathak
106	687	Fuzzy Inference System based Performance evaluation of Radiation Facilities in India using Regulatory Inspection Data - A Case Study for operating Medical Cyclotrons	Suvadip Roy
107	715	Vacuum System Design for an 18 MeV Medical Cyclotron	Javed Akhter
108	718	Beam Diagnostics in High Current Injector at IUAC Delhi: Present and Future	Dr Rajesh V Hariwal
109	727	Detection of complex Multi-micro bunch structure using the in-house developed faraday cup at Delhi Light Source	Bappa Karmakar
110	729	Design, Development and Characterization of Retarding Field Analyzer	Pallavi Priyadarshini
111	861	Installation, Commissioning and Operational Optimization of Upgraded Frequency Tuning System for Booster Cavity	Nitesh Mishra
112	876	Design, development & installation of upgraded vacuum system of Indus-1	B.K. Sindal
113	890	Characterization of the electron beam from the injector linac of the infra-red free electron laser (IR-FEL) at RRCAT	R. S. Saini
114	1019	Development of Interferometer based Electron Beam Size Measurement System for Indus-2	Akash Deep Garg
115	1020	Mechanical Design, Development and Installation of Strip-line Kicker and Pick-up for Tune Measurement and Feedback System for Indus-1	A. K. Karnewar

Poster Presentations

Poster Session-3: 16:00 – 18:00 Hrs, Friday, 28 March2025

Contributory Poster			
S.N.	**ID**	**Title**	**Author name**
1.	847	Finite element analysis of deformable x-ray mirror using flexural hinge-based bender for Indus-2 beamlines	Hari Shankar Kumar Jha
2	894	Design and Development of Post Mirror System for Engineering Application Beamline of Indus-2	S.R.Garg
3	895	Design and development of Ultra High vacuum compatible (UHV) water cooled slit system for ADXRD beamline of Indus-2	P.K.Gauttam
4	785	Fabrication, installation and testing of the internal tubing and LN2 shield of distribution box	Rishi Kant Sharma
5	844	Preliminary Design of Liquid Nitrogen based closed loop cooling system for HBSRS beamline optics	Prabhat Kumar Gupta
6	1008	EES Software Library for Thermodynamic Properties of He3 and He4 mixture	Devendra Sinnarkar
7	787	Laser-Plasma Acceleration of electrons using 1 PW Laser facility at RRCAT	Shikha Mishra
8	989	Quantification of Bremsstrahlung Radiation level during the trial operation of 1PW laser plasma facility at RRCAT	Dilip Kumar Gupta
9	627	Digital Regulator based Switch Mode Power Supply for PIG Ion Source (Arc) of VECC K-130 Cyclotron Room Temperature Cyclotron	Sabyasachi Pathak
10	629	Design and development of advanced high-voltage pulser unit with continuously variable pulse duration for Beam modulation of 7 MeV LINAC	Jankee Upadhyay
11	636	Breakdown Simulation of Inverters-type Power Supply for Neutral Beam Injector Accelerators	Kumar Saurabh
12	638	Design and Development of High Current Thyratron Driver for Line Type modulator of LINACs at RRCAT	Mohan Tiwari
13	640	AC Power Distribution System of RF Solid State Amplifier for accelerator	N.R.Patel
14	649	Holistic approach for upgradation of power distribution substations for Synchrotron Radiation Sources (SRS) at RRCAT, Indore	Sandeep Ahlawat
15	661	Design and Performance of the High-Efficiency DC Power Supply for 325 MHz SSA	Sandip Shrotriya
16	675	Design of the Bipolar, Ramp-type Voltage-source for the Beam Emittance measurement system of VECC MC-18 Project.	Jayesh Balpande
17	677	Development of 8KW LCC Resonant switching based Full-bridge DC-DC Converter for Klystron of the ECR Ion Source System.	Jayesh Balpande
18	700	Development of EPICS enabled precision magnet power supply	Anindya Roy
19	744	Development of high-current, high-stability magnet power supply using switch-mode AC-DC converters for the IUAC accelerators	Rajesh Kumar
20	777	Design and development of 50 kV Electron Gun Modulator for 9.5 MeV, 15 kW electron linear accelerator	Ashwin Pandey
21	778	Output pulse optimization for 90 kV Electron Gun Modulator	Ashwin Pandey

22	792	Ion clearing power supply for Indus-1 Synchrotron Radiation Source	Rajeev Kumar Tyagi
23	794	Development of Power Converters for Dipole Corrector Coils in Indus-1 Storage Ring	Pokharkar Rahul Rohidas
24	796	Development of a 10 kV Series Switch as a replacement for charging thyratron for PFN modulator	Mahesh Acharya
25	797	Design and development of low rise time 130 kV pulse transformer for 6 MW peak and high average power s-band microwave system	J.Mulchandani
26	798	Design, development and testing of PLC based system for interlocks and various filament supplies of Pulse Modulator for 10 MeV electron LINAC applications	J.Mulchandani
27	807	Development of Switch-mode DC-DC Modules for Indus-1 Dipole Magnet Power Converter	Alok Singh
28	841	Upgradation, Installation & Testing of Thyratron trigger drive circuit of 7MeV Electron LINAC at RPCD, BARC	Madhu A Toley
29	842	Development and Implementation of a Remote Controlled Precision Sequential delay generator Trigger System for the 7 MeV Electron LINAC used for Pulse Radiolysis Experiments at RPCD, BARC	Sunil J. Shinde
30	879	Design and development of load resonant four quadrant converter (LRFQC) based fast ramp down scanning magnet power supply for high power Linacs	Ankush Ghosh
31	880	Development of 8-channel window interlock unit for magnet power supplies of 10 MeV, 15 kW, Industrial Linac	Ankush Ghosh
32	885	Testing, installation & commissioning of magnet power supplies of high power industrial Linacs at RRCAT and MSSPL Bangalore	V. K. Gauttam
33	889	Design and development of 10V/220A, high stability, current controlled superconducting wavelength shifter magnet power supply for Indus-2	V. K. Gauttam
34	891	Design and development of prototype stepped saw tooth scanning magnet power supply for 10 MeV industrial Linacs	V. K. Gauttam
35	903	Development of pulse power supply to energize booster injection kicker magnet of Indus- 3	Yogesh Raikwar
36	912	Design and development of 2.5 kW, single phase active power factor correction (PFC) pre-regulator for high voltage and magnet power supplies	V. K. Gauttam
37	917	Design and fabrication of cold plates for dipole power converter of Indus-2 at RRCAT	Deep chand
38	1012	Design & Development of a Precision Power Supply for Activation of Sintered Zr-V-Fe Non-Evaporable Getter Cartridges in UHV System	Hemkant Sharma
39	633	Analysis and Design of 64-way Dielectric Loaded Cavity Divider at 325 MHz for an RF Accelerator	B. V. Ramarao
40	642	Pulse Power Measurement of RF Power for Solid State Amplifier	Shiju A
41	656	A Robust Interlock Protection and Monitoring System of High-Power Solid-State Amplifiers for RF Particle Accelerators	Shyam Sundar Jena
42	660	Reflection less Microstrip Filters for 5G Applications	C Akshay Naik, Deodatta Baxy
43	663	A 360Â° phase detector for pulsed S-Band RF signals	Bhawani Shankar
44	734	Design of compact and efficient 20 kW, 325 MHz SSA with innovative interfacing methods	Jitendra Kumar Mishra,
45	746	Development of 3kW, 48.5MHz Solid State RF Power Amplifier	Parmananad Singh

46	793	Availability Analysis for CW 40 kW and 70 kW 650 MHz Solid State RF Amplifiers	Alok Kumar Gupta
47	828	Analysis and Design of 128-Way High Power Cavity Combiner of SSA for RF Accelerator	B. V. Ramarao
48	870	Thermal design of a 650 MHz, 4 X 500 W solid-state power amplifier for IIFC project	A. Chaturvedi
49	937	Design of Solid-State Radio Frequency Amplifier Module	Deepak Kumar Sharma
50	955	Design and Analysis of a 24-way, all port matched RF power combiner based on suspended lines loaded with lumped elements	M K JAIN
51	971	Design and Development of 325 MHz, 5 kW Pulsed Solid State RF Power Amplifier	R. K. Deo
52	979	Operational experience of IOT based RF power amplifier at Indus-2	R. K. Deo,
53	643	Processing and Performance Testing of Five Cell High Beta 650 MHz Jacketed Niobium Superconducting Cavity	S SUHANE
54	713	Improvements in QWR performance after RF Conditioning with Helium Gas	M.E. Sawant
55	714	Analysis of Magnetic shield of a Vertical Test Stand for testing of superconducting cavities	Tejas Rane
56	754	Development of high power test bench for 650 MHz RF couplers for superconducting cavities of IIFC	Sonal Sharma
57	846	Unique Method of Qualification of Superconducting RF Cavity Slow and Fast Tuner at Room Temperature	Kuldeep K. Singh
58	900	Successful processing of field emission free High beta 650 MHz Superconducting Radio Frequency cavity at RRCAT	A. Bose
59	904	Status of Development of HB650 Cryomodule	Ankit Tiwari
60	953	Preliminary EB Welding studies for MEHIPA-I SSR-B Cavities	Sandeep R. Nair
61	1002	Structural Analysis of Strongback and Cavity Support for HB 650 MHz Cryomodule at RRCAT	Gaurav Agrawal
62	1018	Study of Magnetic Shield Fabrication Process and Its Characterization for SCRF Cavity Applications	Syed Moulali
63	1022	EB Weld Parameter Development and Welding of 325 MHz SCRF Single Spoke Resonator Cavity	VIJAYAKUMAR V
64	630	Design and development of High vacuum scattering chamber assembly for K-130 cyclotron, VECC	Pankaj Kumar
65	786	Finite element analysis of structural frame for 2K vacuum pumping system	Rishi Kant Sharma
66	873	Deposition of functional Titanium thin film on inner surfaces of Pinger magnet Ceramic chambers for Indus-2	Kumar K.V.A.N.P.S.
67	886	Ti-Zr-V Coating of Super-Conducting Wave-length Shifter chamber of Indus-2: First Experimental Run for Coating Parameter Optimization and Characterization	Tripti Bansod
68	896	Development, characterization and initial testing of Zr-16 Al Non-Evaporable Getter alloy for Ultra High Vacuum applications	S. K. Pathak
69	915	Engineering Design of Vacuum Sector of Indus-3 Storage Ring	Sushil Kumar Sharma
70	919	Pumping Scheme and Pressure Profile Simulation of Vacuum-Sector of Indus-3	Sushil Kumar Sharma
71	968	Maintenance Strategies for Reliable Operation of Sputter Ion pumps in Indus Accelerator Complex	V. Sriharsha
72	666	Swift heavy ions induced modification and characterization of doped BAM nanophosphors	Manvendra Kumar
73	893	On the development activities for enhanced utilization of 150kV ion accelerator at IGCAR, Kalpakkam	J Navas
74	943	Plant qualification, process development & validation for e-beam sterilization of medical devices	Arun Shankar Mishra

Contributory Oral Posters (*RF Source, RF structure Design and Characterization*)			
76	622	Fabrication and Testing of Indigenously designed 325 MHz, tetrode tube pulse RF power amplifier	Gaurav Kanyal
76	652	AC power distribution of 40 kW, 650 MHz solid state RF amplifier	Rinki Upadhyay
77	681	Qualification Test of High Power Solid State RF Amplifier Module	Vikas Rajput
78	764	Electromagnetic design of HOMs Coupler for a 325 MHz SSR (SSR-C) cavity for Multipactor suppression application	Alok Kumar Ghosh
79	772	Effect of beam bunch length on beam coupling impedance of bending magnet chamber in Indus-3	Manish Kumar Singh
80	790	Upgradation of the Motor Driving Technique in Indus-2 RF Cavity Tuning Cage Mechanism	Ashish Bohrey
81	824	Development of an FPGA based Pulsed Variable Frequency Generator System for RF based Ion Source Ignition	Ashwin Chalisgaonkar
82	774	Development and installation of S-Band LLRF System for 10 MeV, 15 kW electron linear accelerator LINAC-4 at RRCAT	Ashish Mahawar
83	976	Low Power RF characterization of 9.5 MeV, 15 kW Traveling Wave Electron Accelerating Structure Assembly at RRCAT	R. Dhingra
84	977	Physics design and multipacting suppression studies for a loop-type power coupler for 325 MHz Drift Tube Linac	Sachin Raturi
85	982	Low power characterization of the prototype $\beta_g = 0.11$ single spoke resonator	Mukesh Kumar Pal
86	987	Addressing Multipacting Challenges in a High-Power Klystron RF Window	Mentes Jose