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1	ID-01	New PWM based pneumatic frequency tuner for the first linac module of IUAC	A. Pandey*, S.K.Suman, D.S.Mathuria, S.K.Saini, B.B.Choudhary, B.K.Sahu, A.Rai, R.N.Dutt, G.K.Choudhary, P.Patra, J.Karmakar, A.Sharma, B.Karmakar, S.Ghosh and D.Kanjilal	IUAC
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3	ID-03	Indigenous development of a tuning machine for five-cell 650 MHz SCRF cavities	N. K. Sharma*, G. V. Kane, N. Nigam, S. V. Kokil, S. K. Chauhan, B. Oraon, P. Kumar, A. Sahu, A. Chaturvedi and S.C. Joshi	RRCAT
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97	ID-97	Proton and Ion Acceleration in microns: Alternative approach using Intense, ultra-short lasers	S. Bagechi*, M. Tayyab, J. A. Chakera and P. A. Naik	RRCAT
98	ID-98	Development of a prototype external RF antenna based H- Ion Source for Proton Linac	Dharmraj V. Ghodke*, Manish Pathak, R. K. Khare, Rajnish Kumar, Om Prakash, Ranjan Kumar, B. A. Arya, Murali Krishnan, Sunil Jain, Vinod Senecha and Satish Joshi	RRCAT
99	ID-99	Development of RF based pulsed ignition and gas purging system for H- ion source	Dharmraj V. Ghodke*, R. K. Khare, K. Muralikrishnan, Om Prakash, Ranjan Kumar, B. K. Arya, Rajnish Kumar and V. K. Senecha	RRCAT
100	ID-100	Design and Simulation of Ion Beam Extraction and Focussing System for H Ion Source	S. K. Jain*, Rajnish Kumar, Manish Pathak, D. V. Ghodke and V. K. Senecha	RRCAT
101	ID-101	3D Modeling & Differential Vacuum Simulation for Prototype RF based H Ion Source	Manish Pathak, *, R. K. Khare, Rajnish Kumar, D. V. Ghodke and V. K. Senecha	RRCAT
102	ID-102	Permanent Magnet based Compact Helicon Plasma Source for negative ion source research	Arun Pandey*, Mainak Bandyopadhyay, Dass Sudhir and Arun K. Chakraborty	IPR
103	ID-103	Control system for 2.45 GHz ECR source based intense ion beam facility at IUAC, New Delhi	R. N. Dut*, Y. Mathur, N. Kumar, U. K. Rao, G. Rodrigues and D. Kanjilal	IUAC
104	ID-104	Experimental study on relativistic electron beam generation in high-intensity femtosecond laser plasma interaction	T. Mandal*, V. Arora, A. Moorti, J. A Chakera and P. A. Naik	RRCAT
105	ID-105	Commissioning of High Fluence Ion Beam Facility at University of Allahabad	Manvendra Kumar*, Vikas Baranwal and Avinash C Pandey	U. of Allahabad
106	ID-106	Experimental Campaign with Superconducting Electron Cyclotron Resonance Ion Source at Van de Graaff, BARC	S. C. Sharma, J. A. Gore, N. Mehrotra, M. L. Yadav, R. N. Lokare, S. Goel, R. R. Sahu, N. K. Mishra, D. Sarkar, N. G. Ninawe, J. K. Yadav, R. S. Vishwakarma, Ramjilal, P. V. Gudekar, H. Sparrow, P. C. Bolar, S. K. Mohapatra, A. K. Gupta*, B. K. Nayak, P. V. Bhagwat and A. Saxena	BARC
107	ID-107	Performance evaluation of indigenously designed and developed Aluminium plate fin heat exchangers for helium liquefier	Rajvir Singh Doohan* and Pradeep Kumar Kush	RRCAT
108	ID-108	Cryogenic Operational Issues & Developments For Longest Linac Run at IUAC Delhi	S.K.Sahu*, A. Choudhury, S. Babu and M. Kumar	IUAC
109	ID-109	Heat exchanger design evaluation and concept development for 2 K refrigeration system	Rishi Kant Sharma*, Prabhat Kumar Gupta and P.K. Kush	RRCAT
110	ID-110	Safety assessment and design of pressure relief plate for 2K cryostat to test SCRF cavities	Ashish Kumar Shukla*, R S Doohan, P K Kush	RRCAT
111	ID-111	EPICS ASYN IOC on Embedded LINUX for SoC System.	S K Bharade, Radhika Sanjay Nasery, Mohammad Afzash, Hitesh Shukla, Shailesh Khole and Gopal Joshi	BARC

112	ID-112	State Machine Plugin For ECLIPSE IDE	Radhika Sanjay Nasery*, S K Bharade and Gopal Joshi	BARC
113	ID-113	Development of Data Acquisition System for Online Temperature Monitoring in Cryomodule Component Test Rig	Devendra Sinnarkar*, Suresh Chandra Patidar, Chintan Gupta, V.K.Dubey, Piyush Saxena, Divakar Sharma, Shailesh Gilankar, Rajiv Jain, Prashant Khare and Viraj Bhanage	RRCAT
114	ID-114	Development of Prototype FPGA based Digital Controller for Magnet Power Converters	Alok Singh*, Mangesh Borage and S. R. Tiwari	RRCAT
115	ID-115	F Protection Interlock System for Proton Linacs under Indian Institutions and Fermilab Collaboration	Sujo C.I.*, Prieto P., Shailesh Khole, Hitesh Shukla, Rajesh Keshwani, Sandeep Bharade, Mohammad Afaash and Gopal Joshi	BARC
116	ID-116	Secure Setup for Remote Access / Control of Scientific Instruments over Internet	S.S.Tomar*, S.Chaudhari, V.K.Maurya, A.Rajan and A.Rawat	RRCAT
117	ID-117	Calibration of upgraded beam position indicators of Indus-2	Y.Tyagi*, A. C. Holikatti, L.K. Babbar, S Yadav and T.A. Puntambekar	RRCAT
118	ID-118	Vacuum Control System of LEHIPA	A. Basu*, S.K.Singh,Sapna P.S Ware,S Bharade,U W Vaidya,D A Roy,P K Kavalan,Ratna Bhamra,S K Jain and S K Gupta	BARC
119	ID-119	Design and development of a graphical user interface for remote monitoring and control of RF system	K. Pathak*, D. K. Sharma, V. Bhalla, A. Jain and M. Lad	RRCAT
120	ID-120	eLogBook for Experiments performed on Indus Beamlines	D. K. Verma*, A. Paraye, G. Khare, A. Rajan and A. Rawat	RRCAT
121	ID-121	Software development for turn by turn beam position data acquisition of Indus-2	R. Jain*, A. C. Holikatti, S. Yadav, A. Ojha and T. A. Puntambekar	RRCAT
122	ID-122	Development of Machine and human Safety system for IRFEL	H. R. Bundel*, Shradha Tiwari, Lalita Jain, P. P. Deshpande and Viraj Bhanage	RRCAT
123	ID-123	Design and Development of Supervisory Control System for IRFEL	Shradha Tiwari, Ayukt Pathak, H.R.Bundel, P.P.Deshpande and V.P.Bhanage	RRCAT
124	ID-124	Design and simulation studies of digital filter for ion mobility spectroscopic detector	Gurupreet Singh*, Apollo Kasliwal, Vishnu Gauttam and S. R Tiwari	RRCAT
125	ID-125	Development of Automated Test Bench for Qualification Testing of Power Converters for Electromagnets	Ayukt Kumar Pathak*, Lalita Jian, M A Ansari, Alok Singh, Vineet Kumar Dwivedi, Trepan Singh, Mangesh Borage, Shradha Tiwari, P P Deshpande, S. R. Tiwari and V P Bhanage	RRCAT
126	ID-126	A system for control of RF power coupling of resonators of superconducting LINAC at IUAC, New Delhi	R. N. Dutt*, G. K. Chaudhary, D. S. Mathuria A. Rai, A. Sharma, B. Karmakar, B. K. Sahu, P. N. Patra, A. Pandey J. Karmakar, S. Ghosh and D. Kanjilal	IUAC
127	ID-127	Development of control system for 10 MeV Linac Scanning Magnet Power Supply	M. Seema*, M.Janardhan, P.Gothwal, Y.M.Sheeth and V.C.Petwal P.Fatmani	RRCAT
128	ID-128	System modelling and digital controller design for performance analysis of a phase-shifted full bridge series resonant converter	Sabyasachi Pathak*, Anirban De, M. Garai, M. K. Ghosh and S. K. Thakur	VECC
129	ID-129	Design and development of the control system of ECR-3 ion source in room temperature cyclotron	Mou Chatterjee*, Dr.Ranjini Menon and P.Y. Nabhiraj	VECC
130	ID-130	A PC based supervisory software for power supply ramping for prototype magnet at INO	Anirban De*, A. Bera, M. Garai and S. K. Thakur	VECC
131	ID-131	Development of EPICS enabled alarm annunciation system	Anindya Roy*, Partha Pratim Nandy, R. B. Bhole, Sarbjit Pal and Amitava Roy	VECC
132	ID-132	Development of a generalised, multichannel vacuum gauge control system.	Mou Chatterjee* and P.Y. Nabhiraj	VECC
133	ID-133	Development of control system for electro-polishing facility for SCRF Cavities	S.V. Kokil*, S.K. Chauhan, S. Raghavendra, D.S.Rajpoot and S. C. Joshi	RRCAT
134	ID-134	DEVELOPMENT AND INSTALLATION OF UPGRADED BEAM POSITION INDICATORS FOR INDUS-2 SYNCHROTRON RADIATION SOURCE	L. K. Babbar*, Mukesh Kumar, Dr. B. N. Upadhyaya, V. K. Bhamagar, Brahmanand Sisodia, Y. Tyagi, Rahul Jain, A. C. Holikatti, Surendra Yadav, Deepjwalit Vaishnav, S. Sarkar, S. K. Tiwari, D. P. Yadav, R. Sridhar and T. A. Puntambekar	RRCAT
135	ID-135	Design and development of a feedback control mechanism for on-line frequency tuning of IH-LINAC	D. P. Datta*, Manas Mondal, Balram Kr. Nayan, Nitin Madokar, T. K. Mandi, H. K. Pandey and Arup Bandopadhyay	VECC
136	ID-136	Development of PLC based industrial control system for the control of ASCII protocol based power supplies	V. Sharma*, S. Acharya and Vivek Yadav	BARC
137	ID-137	Development of RF power read-back module	Parmanand Singh*, D.S Mathuria, B.K Sahu, Ashish Sharma and Aithi Kumar B. P	IUAC
138	ID-138	Implementation and Testing of Digital Signal Processing Scheme for Indus-2 Beam Position Monitors using DDC Based Technique	Avanish Ojha*, S. Yadav, A. C. Holikatti, R. Jain, A. Chauhan and T. A. Puntambekar	RRCAT
139	ID-139	Design of Undulator beamline frontend Control and Interlock System	Chander Kant* and Sanjeev R. Kane	RRCAT
140	ID-140	Operational Experience of Transverse Bunch by Bunch Feedback System of Indus-2	Surendra Yadav*, Anil C. Holikatti, Avanish Ojha, Rahul Jain, Akhilesh Kumar Karmewar, Lokesh Kumar Babbar, B. B. Sanavane and T. A. Puntambekar	RRCAT
141	ID-141	Development of Online Beam Size Measurement System for Indus-1	Avanish Ojha*, A. Deep, A. C. Holikatti, S. Yadav and T. A. Puntambekar	RRCAT
142	ID-142	Development of Online Beam Lifetime Measurement Software for Indus-1 and Indus-2	Surendra Yadav*, Rajesh Agrawal, Bhavna N. Merh and T. A. Puntambekar	RRCAT
143	ID-143	EPICS based Slow Controller for Data Acquisition and Control System of Indian Test Facility for ITER DNB	Himanshu Tyagi*, Ratnakar Yadav, Kartik Patel, Jignesh Bhagora, Hiren Mistri, Mainak Bandopadhyay, Mahendrajit Singh and Arun Chankraborty	ITER-INDIA
144	ID-144	Development of Control System for 10MeV Industrial RF Linac	R.B. Chavan*, A.R.Tilki, D Bhattacharjee, Shiv Chandan, H.E.Sarukte, Rajneesh Tiwari, Shailaja Gaikwad, D. Jayaprakash, R.L.Mishra, Vivek Yadav, Nishant Choudhary, Mukesh Kumar, Rajesh Barnwal, S.R.Ghodke and K.P.Dixit	BARC
145	ID-145	Synchronized distributed multichannel fast digitizer Module for Indus-2 Storage Ring	M Janardhan*, K Saifee and P Fatmani	RRCAT
146	ID-146	Modular Embedded Control System for Solid State RF Amplifiers	Deepak Kumar Sharma*, Akhilesh Jain, M. R. Lad, Varun Bhalla and Dheeraj Verma	RRCAT
147	ID-147	Development of EPICS based control System for Main Magnet & Trim Coil Power Supplies	Shantonu Sahoo*, Anindya Roy, Sarbjit Pal and Amitava Roy	VECC
148	ID-148	Instrumentation for POSITION measurement of Magnetic Median Plane of SCC and error analysis	Niraj Chaddha*, R.B.Bhole and Sarbjit Pal	VECC
149	ID-149	A novel design of comparator for Σ AADC	R. S. Gamad* and Renu Mehta	SGSITS, Indore
150	ID-150	Design and Development of 4 Channel Up-converter and 8 Channel Down-converter	Mohammad Afaash*, Ed Cullerton, Sujo C.I, Gopal Joshi and Brian Chase	BARC
151	ID-151	Development of a microcontroller based multichannel gate-valve and faraday cup controller system for a 400kV low energy accelerator	K. Suresh*, J. Navas, A.Parthasarathi, C.David and B.K.Panigrahi	BARC
152	ID-152	24 Channel VME based Frequency to digital converter for IUAC LINAC control scheme	Mamta Jain*, Kundan singh, E.T Subramaniam and B.K Sahu	IUAC
153	ID-153	Innovative piezoelectric actuators based control scheme for superconducting Quarter Wave Resonators	B.K.Sahu, R. Ahuja, Rajesh Kumar, S K Suman, D.S.Mathuria, A. Sharma, A.Rai, P.Patra, A.Pandey, G.K.Chowdhury, J. Karmakar, B. Karmakar, R.N. Dutt, G. Joshi, S.Ghosh and D.Kanjilal	IUAC
154	ID-154	Development & testing of a FPGA based LLRF controller for Heavy-ion RFQ	R. R. Sahu*, S. Goel, J. A. Gore and A. K. Gupta	BARC

155	ID-155	Diamonds for Beam Instrumentation	Erich Griesmayer* and Christina Weiss	CIVIDEC Instrumentation, Austria
156	ID-156	A novel instrument for average current measurements of CW beams	F. Stulle*, H. Bayle, L. Dupuy, T. Delaviere and J. Bergoz	Bergoz Instrumentation, France
157	ID-157	Development of Fast Current Transformer (FCT) for Beam Diagnostics	A.S.Dhaval*, H.Tyagi, S.Acharya, R.Tiwari, H.Sarukte, U.Yerge, D.Bhattacharjee and K.P.Dixit	BARC
158	ID-158	Peak detection circuit for sub-microsecond width pick-up signal from beam diagnostic pick-up detectors	Arihant Kumar Jain* and Bhavini Bafna	RRCAT
159	ID-159	Design and development of processing electronics for multi-strip collector array to measure beam profile of industrial Linac	R. Jain1*, A. C. Holikatti, V. C. Perwal, B. B. Sonawane and J. Dwivedi	RRCAT
160	ID-160	Development of beam profile measurement system for industrial electron Linac	A. C. Holikatti*, Rahul Jain, B. B. Sonawane and T.A.Puntambekar	RRCAT
161	ID-161	Prototype development of an Inverted Magnetron Gauge Controller	Hemkant Sharma*, Nilesh Bhangre, Sujata Joshi, KVANPS Kumar and R Sridhar	RRCAT
162	ID-162	Design Upgradation & Development of BAG Controller and its Mass production	Dhananjay Y. Deokar*, Vishnu Pandey, Hemkant Sharma, Nilesh Bhangre, KVANPS Kumar, Sujata Joshi and R Sridhar	RRCAT
163	ID-163	Web Applications for Indus Accelerator Complex	B. S. K. Srivastava*, R. K. Agrawal and P. Fatani	RRCAT
164	ID-164	Injector LINAC Control System on VME	Sampa Gangopadhyay*, Bhavna N. Merh, Pankaj Kumar Gothwal, Archana Prabhu, Prashant Pawankar and Pravin Fatani	RRCAT
165	ID-165	Indus Operation Logbook: A Practical Approach	B. S. K. Srivastava*, R. K. Agrawal, P. Fatani and A. C. Thakurta	RRCAT
166	ID-166	Development of eLogs facility for the Room Temperature Cyclotron at VECC	Partha Dhara*, Anindya Roy, Prodyut Sankar Chakraborty, Sarbjit Pal and Amitava Roy	VECC
167	ID-167	Overview of versatile diagnostics development under NNBI program in IPR	M. Bandyopadhyay*, A. J. Dekal, D. Mukhopadhyay, P. Singh, Dass Sudhir, H. Tyagi, R.K. Yadav, M. Bhuyan, K. Pandya, P. Bharathi and A Chakraborty	ITER-INDIA
168	ID-168	Design and Development of spot size measurement system for High Energy X-ray Source	Sharad T. Chavan*, Ganesh H. Gaikwad, Mandar V. Vidwans and Sanjay N. Peth	SAMEER
169	ID-169	Raman based fiber optic distributed temperature sensor for temperature profiling of electron accelerator components	S. D. V. S. Jagannadha Raju*, M. K. Saxena, J. Kishore, K. V. A. N. P. S. Kumar, N.J. Bhangre, R. Sridhar, S. Kher and S. K. Dixit	RRCAT
170	ID-170	Investigation and mitigation of elevated radiation level at equipment gallery of Indus-2, RRCAT	Dimple Verma*, Dilip Gupta, Vipin Dev, T K Sahu, P K Sahani, Saleem Khan, M.K. Nayak, Vijay Kumar, Mukesh Khare, Haridas G, T.A.Puntambekar, Tapas Bandyopadhyay and R.M.Tripathi	RRCAT
171	ID-171	Dose assessment on temperature monitoring units in INDUS-2 tunnel	Dilip Kumar Gupta*, T K Sahu, N.J.Bange, Haridas G and T. Bandyopadhyay	RRCAT
172	ID-172	Development of transverse beam emittance measurement system using slit-grid technique for LEHIPA	Deepak N Mathad*, Dr. Rajesh Kumar, S. K. Singh and Bhumeswar P	BARC
173	ID-173	Indus-1 RF Control System Development using EPICS and Distributed Control	R. P. Yadav*, Janardhan Musuku and P. Fatani	RRCAT
174	ID-174	Design of synchrotron radiation interferometer for beam size measurement in Indus-2 synchrotron radiation source	Akash Deep Garg *, Avanih Ojha, A.K. Karnewar and T.A. Puntambekar	RRCAT
175	ID-175	Development of FMR line width measurement set up using frequency sweep method for characterization of microwave ferrites and garnets	Prashant Pareek*and R.S.Shinde	RRCAT
176	ID-176	Extraction of weak Signals using virtual instrumentation based Lock in detection technique	Himanshu Tyagi*, Mainak Bandyopadhyay, Pranjal Singh and Arun Chakraborty	ITER-INDIA
177	ID-177	Development of software for remote operation of trigger pulse generator unit	Jatin Jotangia*, Pankaj Gothwal, M. Seema, Janardhan Musuku Samaresh Kar and P. Fatani	RRCAT
178	ID-178	Development of prototype RF front end electronics for digital beam position monitor of Indus-2	B. B. Shrivastava*, Sharad Tripathi, Anant Jaiswal, Manish Chouhan and T. A. Puntambekar	RRCAT
179	ID-179	Development of compact transverse and longitudinal beam diagnostics for High Current Injector	R. V. Hariwal*, S. Kedia, R. Ahuja and R. Mehta	IUAC
180	ID-180	Design and Fabrication of button type Beam Position Monitor for LEHIPA	Alok Kumar Ghosh*, Jose V Mathew, S. Krishnagopal and P V Bhagwat	BARC
181	ID-181	Supersonic Gas Jet Generation and Analysis for Beam Profile Measurement Application	Sherry Rosily*, S. K. Singh, S. Krishnagopal and P. V. Bhagwat	BARC
182	ID-182	Preamplifier for Beam Profile Monitor and Faraday Cup	Prajakta Dhumal*, J.N. Karande, Ajay Takke, S. Pal, V. Nanal and R.G. Pillay	TIFR
183	ID-183	Development of emittance monitor and measurement of emittance of electron gun for industrial linac	A. K. Karnewar*, Mukesh Kumar, Y. Tyagi, N. K. Maurya, A. C. Holikatti, Pramod R., Y. D. Wanmode and T. A. Puntambekar	RRCAT
184	ID-184	Design and Construction of Fast Faraday Cups	Jose V. Mathew*, Aman Bajaj, S. Krishnagopal and P V Bhagwat	BARC
185	ID-185	Development of beam diagnostic line for ARPF Linac	Pankaj Kumar*, S.G. Goswami, Ajay Kumar, Arihant K Jain, Subhajt Dutta, V C Perwal, R S Sandha, Jishnu Dwivedi, Vanshree Thakar, S. Das, K. Sreeramulu, T. Veerbhadrarath, Sanjay Sharma, Brahmaand Sasodia, V K Bhatnagar, Sanjay Chouksey, V K Gautam, A Kasliwal, Y M Sheth, Rahul Jain, A C Holikatti, A K Karnewar, Mukesh Kumar, T A Puntambekar, R S Saini, B K Sindal, Y Wanmode and T Reghu	RRCAT
186	ID-186	Development of Spiral Buncher and Diagnostic Systems for the High Current Injector at IUAC	R Mehta*, R V Hariwal, Sanjay Kumar Kedia, Rajesh Kumar and R Ahuja	IUAC
187	ID-187	Control system for Indus-2 undulators and implementation of scheme for remote operation from control room	Pankaj Gothwal*, R P Yadav, A Gupta, T V Satheesan, G Sinha and P Fatani	RRCAT
188	ID-188	Design and development of Web Portal for Health Physics Unit, RRCAT	A. Jain*, R. Tiwari, M. Vyus, V. Dev, Haridas G., Alpna Rajan and Anil Rawat	RRCAT
189	ID-189	Beat Wave Particle Acceleration by Cross-focusing of two Intense Elliptical Laser Beams in Collisionless Plasma	Ganjan Purohit* and Priyanka Rawat	DAV College, Dehradun
190	ID-190	Operational activities of K130 Variable Energy Cyclotron	P.S. Chakraborty*, A. Dey, Partha S Chakraborty, S. Ghosh, P.K. Behera, M. Dash, R. Kumar, R. Ming, R. Rasala, V.V. Rasankar, F. Tabassum, A. Das, A. Kumar, K.D. Rao, B. N. Janavathu, C. Nandi, P.Y. Nabhiraj, A. Bandyopadhyay and A. Roy	VECC
191	ID-191	Beam dynamics effect of APPLE-II undulator on Indus-2 beam	Abdurrahim*, Pradeep Kumar and AD Ghodke	RRCAT
192	ID-192	Studies of beam emittance variation during ramping in booster of low emittance electron storage ring	Pradeep Kant*, Ali Akbar Fakhri and A.D. Ghodke	RRCAT
193	ID-193	Modification of Indus-2 achromat, for installation of insertion devices	Ali Akbar Fakhri*, Pradeep Kant and A.D. Ghodke	RRCAT
194	ID-194	Beam injection with a pulsed sextupole kicker for Low emittance Electron storage ring	Saroj Kumar Jena *, Vijay Kumar Meena, A. A. Fakhri, A. D. Ghodke	RRCAT
195	ID-195	Envelope oscillation of a bunched beam in a high current compact cyclotron	A. Goswami*	VECC
196	ID-196	Superconducting quarter wave resonator as beam phase detector for IUAC linac	B. K. Sahu*, A. Sharma, A. Pandey, A. Rai, P. Patra, G. K. Choudhary, J. Karmakar, B. Karmakar, R. N. Dutt, D.S. Mathuria, M. Jain, S. Ghosh, and D. Kanjilal	IUAC
197	ID-197	Higher order Gaussian mode analysis in THz rectangular horn using MATLAB and CST Microwave Studio	Surbhi Adya*, Rajendra Kumar Verma, Shivendra Maurya and V.V.P Singh	CEERI, Pilani
198	ID-198	3D PARTICLE-IN-CELL CODE DEVELOPMENT FOR CHARGED PARTICLE BEAM DYNAMICS	Abhishek Pathak* and Srinivas Krishnagopal	BARC
199	ID-199	OPTIMIZATION OF SINGLE SPOKE RESONATOR (SSR) CAVITIES FOR THE MEHIPA LINAC	Abhishek Pathak*, Shweta Roy and Srinivas Krishnagopal	BARC

200	ID-200	MULTIPACTING STUDIES FOR SINGLE SPOKE CAVITIES FOR INDIAN ADS PROGRAM	Abhishek Pathak*, Shweta Roy and Srinivas Krishnagopal	BARC
201	ID-201	SPACE CHARGE DOMINATED BEAM INSTABILITIES IN HIGH INTENSITY SUPERCONDUCTING LINAC	Abhishek Pathak* and Srinivas Krishnagopal	BARC
202	ID-202	Design and Simulation of a 6 MeV, X-Band RF Linac for Radiation Therapy	J. Mondal and V. T. Nimje	BARC
203	ID-203	Conceptual design of permanent magnet undulator using measured magnetisation data and optimization of various parameters	Gautam Sinha ¹ , Ritesh Malik, Kailash Ruwali and R. S. Shinde	RRCAT
204	ID-204	Particle trajectory in a quadrupole magnet considering fringe field	Gautam Sinha ¹ , Ritesh Malik, Kailash Ruwali and R. S. Shinde	RRCAT
205	ID-205	Terahertz Attenuation inside beam pipe of the Undulator	A. Sharma*, S. Ghosh ¹ , S. Tripathi, V. Joshi, N. Kumar, B. Karmakar, B.K.Sahu and D.Kanjilal	IUAC
206	ID-206	Optimum Phase Focussing on the superconducting linac of IUAC	J.Karmakar*, S.Ghosh, B.K.Sahu, A.Pandey ¹ , A.Rai, P.Patra, G.K.Choudhary, B.Karmakar, R.N.Dutt, M.Jain, D.S. Mathuria, A.Sharma and D.Kanjilal	IUAC
207	ID-207	Beam optics simulation for Delhi Light Source (Phase-I)	J. Karmakar* ¹ , U. Lehnert ² , S. Ghosh ¹ , N. Kumar ¹ , S.Tripathi ¹ , V. Joshi ¹ , A.Aryshev ³ , J.Urakawa ³ , R.K. Bhandari ¹ and D. Kanjilal ¹	IUAC
208	ID-208	Tuning Algorithm for the LEHIPA DTL	Aman Bajaj*, Jose V. Mathew, Shweta Roy, Srinivas Krishnagopal and P. V. Bhagwat	BARC
209	ID-209	Beam Dynamics of 200 MeV Linac for MEHIPA	Shweta Roy, Abhishek Pathak, Rajni Pande, S.V.L.S. Rao, S. Krishnagopal, and P.V. Bhagwat	BARC
210	ID-210	Error and Beam Loss Analysis in MEHIPA linac	Shweta Roy, Abhishek Pathak, Rajni Pande, S.V.L.S. Rao, S. Krishnagopal and P.V. Bhagwat	BARC
211	ID-211	Effect of intra-beam coulomb scattering on beam parameters in ultra-low emittance electron storage ring	Pradeep Kumar*, Debasis Sinhamahapatra and A.D. Ghodke	RRCAT
212	ID-212	Vertical beam size correction strategy during row phase change of APPLE-II undulator in Indus-2	Pradeep Kumar* and A.D. Ghodke	RRCAT
213	ID-213	Beam Dynamics Study with faulty trim coils in Superconducting Cyclotron at VECC	Jayanta Debnath*, M.K. Dey, S. Paul, U. Bhunia, J. Pradhan and Arup Bandyopadhyay	VECC
214	ID-214	Development of magnets for beam diagnostic line of ARPF Linac	S. Das*, K. Sreeramulu, Vanshree Thakur, Kushraj Singh, Bhim Singh, Ashok Kumar, A. K. Mishra, B. Srinivasan, R.S.Shinde, Pankaj Kumar, S.G. Goswami, Jishnu Dwivedi, T. Veerbhadrachari, Upal Chaterji and Brahma Sisodia	RRCAT
215	ID-215	Stretched wire system to determine the magnetic axis of solenoid	Ashok Kumar*, S. Das, B. Srinivasan and R.S.Shinde	RRCAT
216	ID-216	Electromagnetic design and multipacting analysis of the medium beta elliptical cavity for the Indian ADS Programme	Rajni Pande*, Shweta Roy, A. Pathak, S. Krishnagopal and P.V. Bhagwat	BARC
217	ID-217	Design, Fabrication and RF characterization of a double gap Rebuncher Cavity for LEHIPA MEBT	Jose V. Mathew*, S. Krishnagopal and P.V. Bhagwat	BARC
218	ID-218	Design of a Compact Hadron Therapy Machine	Tanuja Dixit*, K. Takayama, A.P. Deshpande, R. Krishnan, L. K. Wah, T. Adachi, T. Kawakubo	SAMEER
219	ID-219	An offline Design Development Study on low beta cavity for High Intensity Proton Linac	B.M.Kukreti*, Arun Agarwal and P.V. Bhagwat	BARC
220	ID-220	Study on the THz radiation produced from FEL of IUAC	V. Joshi, J. Karmakar, N. Kumar, B. Karmakar, S. Tripathi, S. Ghosh, R. K. Bhandari, D. Kanjilal, U. Lehnert, A. Aryshev and J. Urakawa	IUAC
221	ID-221	Progress of a Compact Hybrid Undulator for Delhi Light Source project at IUAC	S. Tripathi*, A.Pandey, J.Karmakar, V.Joshi, S.Ghosh, D. Kanjilal, P.Vagin and M.Tischer	IUAC
222	ID-222	Undulator developments at DAVV	Mona Gehlot*, Roma Khullar, Geetanjali Shrama and G.Mishra	DAVV, Indore
223	ID-223	Image charge effect on the transport of intense off-axis beams in a general quadrupole focusing channel	A. Goswami*	VECC
224	ID-225	Experimental and Theoretical Studies of Beam Transmission in a DC Electron Accelerator	B.Nayak*, S.Acharya, S.Dewangan, D.Bhattacharjee, R.I.Bakhtsingh, Swati H. Das, R.Rajan, D.K.Sharma, V.Sharma, S. R. Ghodke, N. Choudhury, R. Tiwari, R.Patel, S. Gade, R. Barwal, D. Jayprakash, S.K.Srivastava, N. Thakur, S. Gond, A. Waghmare, S. Nayak, M. Kumar, R.L. Mishra and Swati Hater	BARC
225	ID-226	Modified beam energy ramping scheme for booster	Sanjay Kumar Prajapati*, Ali Akbar Fakhri and A.D.Ghodke	RRCAT
226	ID-227	Debunching effects in Axial Injection of K500 Superconducting Cyclotron	Santanu Paul*, Malay Kanti Dey, Jayanta Debnath and Arup Bandyopadhyay	VECC
227	ID-228	Study of beam bunching using the multi-harmonic buncher for the high current injector at IUAC	A. Sarkar*, Sarvesh Kumar, Y. Mathur, Koteswara Rao, Rajesh Kumar, S.K. Suman, V.V.V. Satyanarayana and G.O. Rodrigues	IUAC
228	ID-229	Electromagnetic Design and Beam Dynamics Studies of 9.5/7.0 MeV 10 kW Industrial Electron Linac with Pre-buncher	Parul Arora, P. K. Jana, Nita S. Kulkarni and Vinit Kumar	RRCAT
229	ID-230	Beam Injection Studies for FODO lattice of 1 GeV proton Accumulator Ring	Amalendu Sharma* and Vinit Kumar	RRCAT
230	ID-231	Beam optics design studies of the ISNS High Energy Beam Transport line	Chirag Bhai Patidar* and Amalendu Sharma	RRCAT
231	ID-232	Preliminary optics design of Ring To Target Beam Transport line for a 1GeV Spallation Neutron Source	Urmila Singh* and Amalendu Sharma	RRCAT
232	ID-233	Effect of residual gas molecules on gas bremsstrahlung dose rate in Indus-2	P. K. Sahani*, Haridas G., A. K. Sinha, K.V.A.N.P.S. Kumar and T. A. Puntambekar	RRCAT
233	ID-234	Beam energy spread measurement of new 20 MeV Microtron in Indus Accelerator Complex	R.S. Saini*, Y. Tyagi, A.C. Holikatti and T.A. Puntambekar	RRCAT
234	ID-235	Automation of Beam Based Alignment for Indus-2	Bhavna N. Merh*, K.Sajfee, Amit Chauhan, S. K. Jena, R.K.Agrawal and Pravin Fatmani	RRCAT
235	ID-236	Field mapping and correction of injection line bending magnets for K 500 Superconducting Cyclotron	Md. Zamil Abdul Naser*, Ankur Agarwal, Chinnmay Nandi, Santanu Paul, Jayanta Debnath, Uttam Bhunia, Chiranjib Das, R. B. Bhole, Niraj Chadda, Shantanu Sahoo, Malay Kanti Dev and Arup Bandyopadhyay	VECC
236	ID-237	Beam dynamics with FINGER magnet in Indus-2 electron storage ring	Deepak Kumar Tyagi* and A.D. Ghodke	RRCAT
237	ID-238	Effect of mid-plane asymmetry and inflector misalignment on the beam-injection efficiency in K130 cyclotron	Atanu Dutta*, Malay Kanti Dey and Arup Bandyopadhyay	VECC
238	ID-239	Slow Orbit Feed Back System of Indus-2 with Predictive Control Concepts	Rahul Rana*, R. P. Yadav and P. Fatmani	RRCAT
239	ID-240	Beam optics design of extraction channel of K500 Superconducting Cyclotron	Vinay Singh* and Arup Bandyopadhyay	VECC
240	ID-241	Achromatic beam transport for HEBT section of High Current Injector	Sarvesh Kumar, G. Rodrigues and A. Mandal	IUAC
241	ID-242	Probabilistic Safety Analysis of Radiation Safety Systems for Industrial Electron Accelerator	Priyanshu Dhara*, Gopika Vinod, Haridas G. Ajoy Kumar and M.K.Nayak	RRCAT
242	ID-243	Radiological experiences during the commissioning and operation of Indus-2 synchrotron radiation source	Haridas.G*, M.K.Nayak, P.K.Sahani, Vijay Kumar, Saleem Khan, Dimple Verma, T.K.Sahu, Vipin Dev, Mukesh Khare, D. K. Gupta, J. T. K Mukherjee, S.P.Tripathy, D.S.Thakur, Ram Bahadur, R.G.Marathe, T. Bandyopadhyay, T.A.Puntambekar A.C.Thakurta and R.M.Tripathi	RRCAT
243	ID-244	Calibration and restoration of low emittance beam optics in indus-2 storage ring	Riyasat Husain and A D Ghodke	RRCAT

244	ID-245	Error study of a 325 MHz, 3 MeV RFQ for ISNS	Rahul Gaur and Vinit Kumar	RRCAT
245	ID-246	Field perturbation due to azimuthal asymmetry in SSR cavities	Mukesh Kumar Pal, Rahul Gaur and Vinit Kumar	RRCAT
246	ID-247	Lattice design and beam dynamics simulations for the 1 GeV ISNS SRF LINAC	Arup Ratan Jana, Mukesh Kumar Pal, Ram Prakash, Rahul Gaur and Vinit Kumar	RRCAT
247	ID-248	Design and Development of a Chopping and Deflecting System for the High Current Injector at IUAC	Sanjay Kumar Kedia*, Rajesh Kumar, Rajeev Ahuja and Rajeev Mehta	IUAC
248	ID-249	Alignment tolerances of quadrupole magnets and closed orbit correction scheme in low emittance storage ring	V K Meena*, R Husain, A A Fakhri and A D Ghodke	RRCAT
249	ID-250	Electromagnetic design studies of fundamental RF power coupler for superconducting RF cavities	P. K. Jana and Vinit Kumar	RRCAT
250	ID-251	Electromagnetic design study of collinear load for 10 MeV, 6 kW travelling wave electron linac	P. K. Jana, Rinky Dhingra and Vinit Kumar	RRCAT
251	ID-252	Nonlinear studies for lattice of 1 GeV Proton Accumulator Ring for Indian Spallation Neutron Source	Pradeep Kumar Goyal and Amalendu Sharma	RRCAT
252	ID-253	Analysis of Generation and Effect of Higher Order Modes (HOMs) in Superconducting Cavities	Ram Prakash, Arup Ratan Jana and Vinit Kumar	RRCAT
253	ID-254	Beam Dynamics Studies on 325 MHz DTL using GenDTL and Tracewin	Ram Prakash, Arup Ratan Jana and Vinit Kumar	RRCAT
254	ID-255	Understanding the edge focusing in dipole magnets	Vinit Kumar and Amalendu Sharma	RRCAT
255	ID-256	Physics Design Studies of 10 MeV, 325 MHz Drift Tube Linac for the Indian Spallation Neutron Source	Rinky Dhingra, Nita S. Kulkarni and Vinit Kumar	RRCAT
256	ID-257	Beam tests of VECC's Injector Cryo Module (ICM) at TRIUMF Canada	Vaishali Naik*, Uttam Bhunia and Siddhartha Dechoudhury	VECC
257	ID-258	Beam Dynamics design of injection beam line of proton RFQ for ANURIB project	C. Das*, S. Dechoudhury, Vaishali Naik and Alok Chakrabarti	VECC
258	ID-259	Preliminary study of half wavelength coaxial resonant cavity operating in fundamental Mode for electron acceleration	Deepak Kumar Mishra*, M. Prasad, Jishnu Dwivedi and Mahendra Lad	RRCAT
259	ID-260	New Developments for improvements of LINAC operation at IUAC Delhi	S.Ghosh*, J.Antony, R.Ahuja, S.Babu, A.Choudhury, G.K.Chaudhari, R.N.Dutt, M.Jain, R.Joshi, B.Karmakar, J.Karmakar, R.Kumar, M.Kumar, S.Kar, S.Kumar, D.S.Mathuria, K.K.Mistri, A.Pandey, P.Patra, P.N.Prakash, A.Rai, A.Sarkar, A.Sharma, B.K.Sahu, S.S.K.Soni, P. Singh, J.Sacharias, S.K.Suman, S.Sahu and D.Kanjilal	IUAC
260	ID-261	Design, Electromagnetic Simulation and RF Characterization of Broadband Kicker RF Cavity for Longitudinal Multi Bunch Feedback System of Indus-2	M. Prasad, Ramesh Kumar, Rajiv Kumar Arora and M. Lad	RRCAT
261	ID-262	Design and Electromagnetic Simulation of HOM Damped RF Cavity for Low Emittance Storage Ring	M. Prasad*, Nitesh Tiwari, Pritam Singh Bagdawal and M. Lad	RRCAT
262	ID-263	Performance of 15 UD Pelletron Accelerator at IUAC, Delhi	R Joshi*, G Raturi, J Singh, Pranav Singh, S Kumar, M Nishal, N S Panwar, M P Singh, R Kumar, J Prasad, M Archunan, V P Patel, R P Sharma, Umaphathy G R, Rajveer Sharma, P Baghel, K Devarani, M Sota, S Ojha, S Gargari and S Chopra	IUAC
263	ID-264	Radiolytic yield of ozone in air with synchrotron photon and electron	Saleem Khan, Vijay Kumar, P Dhara and Haridas G	RRCAT
264	ID-265	Analysis of transient beam loading in a constant impedance traveling wave linac	Vinit Kumar and Rinky Dhingra	RRCAT
265	ID-266	Analysis on the gain of a double slab based rectangular Čerenkov Free-Electron Laser	Yashvir Kalkal and Vinit Kumar	JVMGR College, Haryana
266	ID-267	Simulation of Electron Trajectories in Undulator with SCILAB	H. Jeevakhan, S.Kumar and G Mishra	NITTTR, Bhopal
267	ID-268	Small signal microwave characterization and tuning of microtron radio-frequency cavities: an experience	Abhay Bhisikar	RRCAT
268	ID-269	On the requirement of high purity level of material for niobium based SRF cavity	Arup Ratan Jana, Abhay Kumar, Vinit Kumar, and Sindhumil Barmam Roy	RRCAT
269	ID-270	200 MeV electron beam injector linac system for FEL	A. Kumar	RRCAT
270	ID-271	Three dimensional Electromagnetic Simulation Studies of an S-band Travelling Wave Electron Linac	Rinky Dhingra, Vinit Kumar and Nita S. Kulkarni	RRCAT
271	ID-272	Magnetic characterization of the undulator for infrared free-electron laser at RRCAT	Sona Chandran, B. Biswas, V. P. Bhanage, S. Chouksey, S. Das, Ashok Kumar, R. K. Gupta, M. Joshi, S. S. Parihar, R. K. Sahu, R. S. Shinde, A. Valecha, V. Kumar and K. K. Pant	RRCAT
272	ID-273	Commissioning of the IR-FEL injector and beam transport line	Sona Chandran, B. Biswas, Shankar Lal, A. Kumar, R. K. Pandit, P. Nerpagar, S. K. Gupta, A. K. Sarkar, K. K. Pant and M. Khurshed	RRCAT
273	ID-274	1-1/2 Cell Thermionic RF Gun at 2856 MHz Design, Fabrication and High Power Test with Beam	J. Mondal, Shiv Chandan, A. R. Tilla, Jayprakash, R. L. Mishra, Nishant Chowdhury, K. P. Dixit and V. T. Nimje	BARC
274	ID-275	Upgrade of injector system of the IR-FEL at RRCAT	A. Kumar*, B. Biswas, Shankar Lal, Sona Chandran, S.K. Gupta, Pravin Nerpagar, Ravi K. Pandit and K.K.Pant	RRCAT
275	ID-276	Design development and commissioning of the heavy ion beam buncher for K-130 cyclotron at VECC	Anuraag Misra and P.Y.Nabhiraj	VECC
276	ID-277	Installation, Commissioning of 14 GHz ECR ion source and injection line for K-130 cyclotron	Nabhiraj P Y*, Mou Chatterjee, Ranjini Menon, Suman Gaba, Anuraag Misra, Chinmay Nandi, Santosh Mishra, Samit Bandyopadhyay, R C Yadav, Joydeep Misra, Waseem Siddiqui, P S Chakraborty and Arup Bandyopadhyay	VECC
277	ID-278	Programmable pulse generator for synchronisation and trigger applications in FEL subsystems	V.K. Dubey*, P.Saxena, Inderjeet Singh and R. Arya	RRCAT
278	ID-279	Development of Active Shunts for Quadrupole Magnets and their Production Status; and their Role in Indus-2	Aradhana Kumari*, M. L. Gandhi, L. Srinivas and A. C. Thakurta	RRCAT
279	ID-280	Reference Profile Generator for Quadrupole Supplies of Nonlinear Booster Synchrotron	Seema Singhai Sheth*, Yogendra Sheth, Ali Akabar Fakhri, Sanjay Prajapati, Deodatta Baxy and P. Fatmani	RRCAT
280	ID-281	Development of Dipole magnets for Synchrotron utilization section RRCAT	Vanshree Thakur*, Sudhir Kumar, S. Das, K. Sreeramulu, Kushraj Singh and R.S. Shinde	RRCAT
281	ID-282	Development of high voltage floating platform with fibre optics based communication for high power RF test set up	Rinki Upadhyay*, M.K. Badapanda, Akhilesh Tripathi, Rajeev Kumar Tyagi and Mahendra Lad	RRCAT
282	ID-283	Design of Compact High Efficiency Switch Mode Power Supply (SMPS) Customized for Solid State Radio Frequency Power Amplifiers	Shyamsundar Jena*, Sandip Shrotriya, Manjiri Pande and Gopal Joshi	BARC
283	ID-284	Development of 50 V, 640 A pulse power supply for solid state RF amplifiers	Akhilesh Tripathi*, M. K. Badapanda, Rinki Upadhyay, Rajeev Kumar Tyagi and Mahendra Lad	RRCAT
284	ID-285	Development of MOSFET based True Bipolar Power Supply for Ion-Beam Scanning Magnets	Rajesh Kumar*, Mukesh Kumar and S.K.Suman	IUAC
285	ID-286	Enhancements in Indus-2 Magnet Power Supply Control System	Amit Chauhan*, K. Saifee, Bhavna Merh, R.K.Agrawal, Sachin Sangra and Pravin Fatmani	RRCAT
286	ID-287	Design and Implementation of a Digitally Controlled High Stability Power Supply for Accelerator Magnets	H. K Khatwani*, M. L. Gandhi, S. N. Singh and A. C. Thakurta	RRCAT

287	ID-288	A compact low cost isolation circuit with hardware linearizer for the control of the subsystem of 2.45GHz proton ion source at VECC	Saurabh Srivastava*, Anuraag Misra and Yashwant Kumar	VECC
288	ID-289	High voltage pulse charger for precision high voltage pulse applications	U.S.Karandikar*,Yashpal Singh, P.Renukanath, Yogesh Kelkar, Rajesh Baroithiya, S.R.Tiwari and A.C.Thakurta	RRCAT
289	ID-290	Magnet power supplies for the injection beam-line of K-130 Variable Energy Cyclotron	Samit Bandyopadhyay*, Anirban De, Sabyasachi Pathak and Manoranjan Das	VECC
290	ID-291	Fault energy dump & Repeated Breakdown validations of High voltage power supplies commissioned for extraction and acceleration of ions in ion source	V. Mahesh*, A. Gahlaut, A. Chakraborty, B. Prajapati, K. Parmar, R. Yadav, G. Bansal, J. Soni, M. Bandyopadhyay and K. Pandya	IPR
291	ID-292	Design, development & testing of direct off line switch mode power supply for solid state RF amplifiers	Yashwant Kumar*, S. Srivastava, A. Bera, A.K. Kushwaha, H. K. Pandey and S.K. Thakur	VECC
292	ID-293	Design & development of high voltage pulse power supply for fast rise current pulse	Rajesh Baroithiya*, Yashpal Singh, Satya Dav, Y.Kelkar, U.Karandikar and A.C. Thakurta	RRCAT
293	ID-294	A Novel Droop Compensation Scheme for 50 kV, 2 A, 16 μ s Marx Modulator	M. Acharya* and Purushottam Shrivastava	RRCAT
294	ID-295	Feed Forward Droop Correction Technique for the 100 kV, 20 A, 1.6 ms Converter Modulator	T.Reghu, V.Mandlole and Purushottam Shrivastava	RRCAT
295	ID-296	Power Converters for Transfer Line Magnets of New Injector Linac in Indus Accelerator Complex	Alok Singh*, Vineet Kumar Dwivedi, Mangesh Borage and S. R. Tiwari	RRCAT
296	ID-297	Design and Development of New 20 kW Power Converters for Quadrupole Magnets in Indus-2	Vineet Kumar Dwivedi*, Alok Singh, Manohar Koli, Mangesh Borage and S. R. Tiwari	RRCAT
297	ID-298	Design and development of a -5kV high voltage DC power supply for IMS detector	Apollo Kasliwal*, Vishnu Gauttam, T.G. pandit and S.R. Tiwari	RRCAT
298	ID-299	Design and development of a high stability current controlled collimator magnet power supply with a resolution of 1mA for 10 MeV RF Linac	V. K. Gauttam*, Apollo Kasliwal and S. R. Tiwari	RRCAT
299	ID-300	Design,development and commissioning of current controlled two quadrant converter using resonant technique to achieve high di/dt pulse current in pulse selector magnet load for 10 MeV RF Linac	V. K. Gauttam*, Apollo Kasliwal and S. R. Tiwari	RRCAT
300	ID-301	Design and development of a compact -5 kV high voltage pulse power supply for IMS based detectors	V. K. Gauttam*, Apollo Kasliwal and S. R. Tiwari	RRCAT
301	ID-302	Development of New Soft-Switching Power Converters for Transport Line – 2 Dipole and Indus-1 Quadrupole Magnets	Manohar Koli*, Mangesh Borage and S. R. Tiwari	RRCAT
302	ID-303	Upgradation of IOT bias HVDC power supply in Indus -2, Synchrotron Radiation Source	M. K. Badapanda*, Rinki Upadhyay, Akhilesh Tripathi,Rajeev Kumar Tyagi and Mahendra Lad	RRCAT
303	ID-304	Development of High voltage systems with their protection and measurement system, floating at HV for 1 MW klystron system of DTL	Sandip Shrotriya, Niranjan Patel, Shiju A. Shyamsundar Jena, Manjiri Pande and Gopal Joshi	BARC
304	ID-305	A low jitter Thyatron trigger	Y.Kelkar*, Y.P.Singh, R.Baroithiya, U.Karandikar, S.R.Tiwari and A.C. Thakurta	RRCAT
305	ID-306	Electrostatic stress shields design and its impact on operational performance on high voltage systems	Sejal Shah*, A. Chakraborty, M. J. Singh, M. Bandyopadhyay, K. Patel, H. Tyagi, D. Sharma and D. Parmar	ITER-INDIA
306	ID-307	Design of a 3D Vector Magnet for micro-SQUID magnetometry	Sagar Paul, Harsh Parashari, Anjan K. Gupta* and Gautam Sinha	IIT Kanpur
307	ID-308	Electromagnetic and thermal design of a room temperature bore 1MJ conduction cooled superconducting solenoid magnet	S.Sundar Rajan*, U.G.P.S Sachan, Vijay Harad, A.K Sinha and Sanjay Malhotra	BARC
308	ID-309	Solution of Laplace's equation in elliptic cylindrical system	Bhabani Prasad Mandal* and Gautam Sinha	BHU
309	ID-310	Electromagnetic and Thermal Design of Combined Function Dipole Correctors for high- β 650 MHz section of high energy proton accelerator	Elina Mishra*, VikasTeotia, Prashant Kumar and Sanjay Malhotra	BARC
310	ID-311	Design & analysis of 10ppm uniformity permanent dipole magnet for NMR studies	Vikas Teotia, Prashant Kumar, Elina Mishra and Sanjay Malhotra	BARC
311	ID-312	Design, Development & Commissioning of a compact dipole with large aperture for beam dump in IR-FEL	Sona Chandran*, B. Biswas and K. K. Pant	RRCAT
312	ID-313	Magnetic median plane measurement in the central region of superconducting cyclotron (SCC)	J Pradhan*, N Chaddha, V Singh, VK Khare, RB Bhole, and A Dutta Gupta	VECC
313	ID-314	Development of transfer line magnets for 30 MeV Injector Linac of Booster Synchrotron	Kailash Ruwali*, Sudhir Kumar, Ritesh Malik, Kushraj Singh, Preveen Kumar, B. Srinivasan, A. K. Mishra, Bhim Singh, Navin Awale, K. Sreeramulu, Gautam Sinha and R. S. Shinde	RRCAT
314	ID-315	Design of Nose Type Magnets	Kailash Ruwali*, Ritesh Malik and Gautam Sinha	RRCAT
315	ID-316	Magnetic measurement plan in DAVV- Pulsed wire bench	Saif Mohd Khan, Mona Gehlot*, Roma Khullar, Jeeva Khan Hussain and G. Mishra	DAVV, Indore
316	ID-317	Electrical modeling and measurement of permanent magnets with Helmholtz coil system	Prashant Pareek*, Karan Singh and R.S.Shinde	RRCAT
317	ID-318	Magnetic field mapping and correction of first harmonic imperfection in the central region of K500 superconducting cyclotron	U Bhunia*, J Debnath, A Datta, J Pradhan, A Agarwal, ZA Naser, S Paul, A Roy, R B Bhole, N Chadda, C Nandi, M K Dey, A DuttaGupta, Arup Bandyopadhyay and Amitava Roy	VECC
318	ID-319	Steering magnets correction in SCC injection beam line	A. Agrawal*, U. Bhunia, T. Mondal, C Das, C. Nandi and M.K Dey	VECC
319	ID-320	3D-Design simulation and development of electromagnetic filter magnet for H-ion source	Rajnish Kumar*, D. V. Ghodke, Harshit Shah, Manish Pathak, R. K. Khare and V. K. Senecha	RRCAT
320	ID-321	Development of superconducting solenoids for MEHIPA	Rajni Pande*, Shweta Roy, A. Pathak, S. Krishnagopal and P.V. Bhagwat	BARC
321	ID-322	Determination of magnetic axis of solenoid using 3-D Hall sensor	Ritesh Malik*, Gautam Sinha, Kailash Ruwali, A. K. Mishra, B. Srinivasan, Bhim Singh, K. Sreeramulu and R. S. Shinde	RRCAT
322	ID-323	3D Simulation studies of magnetic field of solenoid for various practical windings	Ritesh Malik*, Gautam Sinha, Kailash Ruwali and R. S. Shinde	RRCAT
323	ID-324	Design, development and testing of a 4 Tesla, large room temperature bore, liquid helium cooled superconducting solenoid magnet for MHD studies	S.Sundar Rajan*, U.G.P.S Sachan, Vijay Harad, A.K Sinha and Sanjay Malhotra	BARC
324	ID-325	Design and development of a 2-Tesla Dipole Magnet for X-ray Magnetic Circular Dichorism measurements	Udai Giri Pratap Singh Sachan*, S.Sundar Rajan, Vijay J. Harad and Sanjay Malhotra	BARC
325	ID-326	Magnetic Qualification of Permanent Magnet Quadrupoles for LEHIPA DTL	Jose V. Mathew*, H. K. Sane, S. Krishnagopal and P.V. Bhagwat	BARC
326	ID-327	Operating Experience of Radio Frequency Power Testing of klystron at 352 MHz	Sandip Shrotriya, Niranjan Patel, Shiju A. B.V. Rama Rao, J.K. Mishra, Muthu S., Snigdha Singh, Shyam Sunder Jena, Manjiri Pande and Gopal Joshi	BARC

327	ID-328	Design Architecture of Interlock, Protection and Monitoring System for 7KW solid state RF power amplifier	<i>R T Keshwani, Sujo C I, Hitesh Shukla, J K Mishra, M Afaash, M Sutar, Snigdha Singh and Gopal Joshi</i>	BARC
328	ID-329	Synthesis, Characterization & Development of Y-Fe-Garnet for use in Radio Frequency Circulators	<i>K. Sandeep Rao, B.P. Mandal, J.K. Mishra, Snigdha Singh, Shashwati Sen, Manjiri Pande, A.K. Tyagi, H.G. Salunke and S.C. Gadkari</i>	BARC
329	ID-330	Design and development of a 22 way splitter for 20 kW Solid State RF Power Amplifier	<i>Snigdha Singh*, J.K. Mishra, Manjiri Pande and Gopal Joshi</i>	BARC
330	ID-331	Development of Coaxial Components for RF Coupler test facility	<i>G. N. Singh*, Mentos Jose, Rajesh Kumar and P. V. Bhagwat</i>	BARC
331	ID-332	RF characterization and curing of harmful higher order modes of indigenous RF cavity for high beam current operation of Indus-2	<i>Rajiv Kumar Arora*, M. Prasad, Ramesh Kumar and Mahendra Lad</i>	RRCAT
332	ID-333	Development of 325 and 650 MHz RF couplers under IIFC	<i>Rajesh kumar*, Mentos Jose, Sonal Sharma, G.N. Singh, V.K.Mishra, N.K. Sarangi, Anupam K Sinha, and P.V Bhagwat</i>	BARC
333	ID-334	Development of a stub loaded coaxial structure for high power coupler testing	<i>Mentos Jose*, Rajesh Kumar, G. N. Singh and P. V. Bhagwat</i>	BARC
334	ID-335	Design and Development of tetrode based 325 MHz, 3 kW Radio Frequency (RF) system (Pulsed & CW) for Ring Resonator	<i>Niranjan Patel*, Sandip Shrotriya, Shiju A. S.S. Jena, Manjiri Pande and Gopal Joshi</i>	BARC
335	ID-336	Development of RF Amplifiers for Multi Harmonic Buncher (MHB) Cavity operating at 20.3125 MHz and its harmonic frequencies	<i>Niranjan Patel*, Sandip Shrotriya, Shiju A. S.S. Jena, Manjiri Pande and Gopal Joshi</i>	BARC
336	ID-337	Development of 10 kW, 352 MHz Solid-state RF Power Amplifier for Buncher Cavity of Proton Accelerator	<i>B. V. Ramarao*, S. Muthu, J. K. Mishra, Snigdha Singh, S.S. Jena, Manjiri Pande and Gopal Joshi</i>	BARC
337	ID-338	Development of indium doped calcium vanadium garnets for high power CW circulators at 505.8 MHz for Indus-2	<i>L. K. Aditya*, R. Meena, M. Ahlawat, P. Kulshreshtha and R. S. Shinde</i>	RRCAT
338	ID-339	Development of low level RF Control Electronics for High Current Injector (HCI) RF Cavities	<i>S.K.Suman*, Rajesh Kumar and C.P.Safvan</i>	IUAC
339	ID-340	Testing Experience on 325 MHz, 7 kW RF Power Amplifier for Accelerator Applications	<i>Jitendra K. Mishra*, Snigdha Singh, B. V. Ramarao, Manjiri Pande, Muthu S, Hitesh Kadam and Gopal Joshi</i>	BARC
340	ID-341	Design and Fabrication of 325MHz, 20 kW RF Power Amplifier for Accelerator Application	<i>J K Mishra, Snigdha Singh, B. V. Ramarao, Manjiri Pande, Muthu S, Hitesh Kadam and Gopal Joshi</i>	BARC
341	ID-342	Design and Development of 8-way Gysel Divider for Solid State Radio Frequency Amplifier	<i>Shyam sundar Jena, JK Mishra, BV Ramarao, S. Muthu, Manjiri Pande and Gopal Joshi</i>	BARC
342	ID-343	Design and development of a 3 kW RF high power four way combiner at 37.8 MHz	<i>Subhashish Basak*, B.K.Nayan, A.Bose, H.Yadav, H.K.Pandey and Arup Bandopadhyay</i>	VECC
343	ID-344	Development of Waveguide Based Directional Coupler cum mechanical phase shifter for LEHIPA	<i>J K Mishra*, B V Ramarao, Shyam Sunder Jena, Manjiri Pande, Muthu S and Gopal Joshi</i>	BARC
344	ID-345	Challenges in Operation of Low Level RF System of Indus-2 Synchrotron Radiation Source	<i>Nitesh Tiwari*, Pritam S. Bagduwal, J. Nageswara Rao, Dheeraj Sharma and Mahendra Lad</i>	RRCAT
345	ID-346	Development of RF System for LMBF of Indus-2 SRS	<i>Nitesh Tiwari*, Pritam S. Bagduwal, and Mahendra Lad</i>	RRCAT
346	ID-347	Design and development of ICVG disk resonator for 505.8 MHz strip line ferrite circulator for RF systems of Indus 2	<i>M. Ahlawat*, P. Pareek, L. Aditya, V. Gaud, S. Senthil, Kulshreshtha, K. Singh, Ashish Tiwari, Ramesh Kumar, M. Lad and R.S. Shinde</i>	RRCAT
347	ID-348	Measurement of ferromagnetic resonance in spinel ferrites and garnets for high power circulator using shorted coaxial technique	<i>Manjeet Ahlawat*, Prashant Pareek, L.Aditya and R. S. Shinde</i>	RRCAT
348	ID-349	Microwave magnetic characterization of EM absorbing materials for ARPF applications	<i>Manjeet Ahlawat*, Prashant Pareek, Rakesh Soni, Pankaj Kumar, Jishnu Dwivedi and R. S. Shinde</i>	RRCAT
349	ID-351	Precision RF Phase Measurement Unit	<i>J.N. Karande*, Prajakta Dhawal, Ajay Takke, S. Pal, V. Nanal and R.G. Pillay</i>	TIFR
350	ID-352	Design and development of S-Band, 2 kW pulsed solid state amplifier for energizing pre-buncher cavity of IRFEL injector LINAC	<i>Ashish Mahawar*, Praveen Mohania, Kunver Adarsh Pratap Singh, Raj Kumar Namdeo and Purushottam Shrivastava</i>	RRCAT
351	ID-353	Room temperature RF characterization of 650 MHz Niobium cavity structures for development of Beta-0.92, 5-Cell SCRF cavity	<i>Praveen Mohania*, Ashish Mahawar, Kunver Adarsh Pratap Singh, Rajkumar Namdeo, Purushottam Shrivastava, Anand Yadav, S.Moulali, V.K.Srivastava, M.Bagre, Tilak Maurya, and Avinash Pantambekar</i>	RRCAT
352	ID-354	Design and simulation of the power and the pickup couplers for 5-Cell, Beta-0.92, SCRF cavity	<i>Kunver Adarsh Pratap Singh*, Vikas Rajput, Praveen Mohania, Rajkumar Namdeo and Purushottam Shrivastava</i>	RRCAT
353	ID-355	RF power distribution scheme of RIB accelerators	<i>H. K. Pandey, T. K. Mandi, D. P. Dutta, S. Basak, H. Yadav, N. Madokar, J. Kumar, V. Naik, A. Bandyopadhyay</i>	VECC
354	ID-356	Development of Rectangular Microwave Cavity Resonator using X-ray LIGA at Indus-2 in RRCAT	<i>Rahul Shukla, Vasudha Agrawal, Akshita Gupta, Purushottam Shrivastava* Kunver Adarsh Pratap Singh and P. Ram Sankar</i>	RRCAT
355	ID-357	Design and simulation of diode magnetron injection gun for CW W-Band Gyatron	<i>Surbhi Adya, Madan Singh Chauhan, Yuvaraj S and M.V. Kartikeyan</i>	IIT, Roorkee
356	ID-358	RF characterization and High power conditioning of a 7-cell S-band accelerating buncher	<i>Shankar Lal*, R.K. Pandit, P. Nerpagar, Arvind Kumar and K. K. Pant</i>	RRCAT
357	ID-359	Design, development and RF characterization of resonant ring for testing of 325 MHz IIFC couplers	<i>Sonal Sharma*, Mentos Jose, G.N. Singh, Rajesh kumar and P.V Bhagwat</i>	BARC
358	ID-360	High power testing of reconfigurable waveguide systems for RFQ of LEHIPA	<i>B. V. Ramarao*, J. K. Mishra, Muthu S., Manjiri Pande and Gopal Joshi</i>	BARC
359	ID-361	Design and development of pulsed driver amplifier @1MHz FOR ACCUMULATOR RING project in isns	<i>R. K. Deo¹, M. K. Jain, S. Bagre, Gautam Kumar and M. Lad</i>	RRCAT
360	ID-362	Realization of 50-way RF Cavity Combiner at 325MHz	<i>M. K. Jain*, Deo R. K. and M.R. Lad</i>	RRCAT
361	ID-363	Design and development of a 1MHz, 100kW RF power amplifier	<i>M. K. Jain*, Deo R. K. and M.R. Lad</i>	RRCAT
362	ID-365	Design and Development of Compact 650 MHz, 2 kW CW RF Amplifier	<i>Deepak Kumar Sharma*, Akhilesh Jain, M. R. Lad, Varun Bhalla, Ravi Kant Patel, Pooja Kumari and Dheeraj Verma</i>	RRCAT
363	ID-366	Installation and Commissioning of Indigenously Developed RF Cavity in Indus-2	<i>Ramesh Kumar*, Ashish Tiwari, Rajeev Arora, M.Prasad, N. Bhardwaj, Alok Gupta, Deepak Sharma, Akhilesh Jain, M.K.Badapanda, Nageswar Rao, P. Bagduwal, Nitesh Tiwari, Ashish Bohrey, Mahendra Lad,A. Karnewar, R.M. Pandey, Sanjay Gupta, R.K.Sahu, T. Pantambekar, V. Sathe, D.P. Yadav, B.K. Sindal, R. Sridhar, R.S. Sandha, and Jishnu Dwivedi</i>	RRCAT
364	ID-367	Development & implementation of fast acting 'Input RF Drive Power Overload' interlock to safeguard the Indus-2 Solid State RF Amplifiers	<i>Narendra Kumar Bharadwaj*, Alok Gupta, Akhilesh Jain, Mahendra Lad K. K. Pumetha and T. G. Joseph</i>	RRCAT
365	ID-368	Design and development of 40-port coaxial line based radial RF power combiner at 325 MHz	<i>Alok Kumar Gupta,*Akhilesh Jain, M. R. Lad,Ravi Patel and Joseph Tharayil</i>	RRCAT
366	ID-369	Design and development of tapered microstrip line based broadband Multiport RF power dividers	<i>Alok Kumar Gupta,*Akhilesh Jain, M. R. Lad, Varun Bhalla and Joseph Tharayil</i>	RRCAT
367	ID-370	31.6 MHz, 4kW Solid State RF Amplifier for Booster Synchrotron	<i>Pritam S. Bagduwal*, Nitesh Tiwari and Mahendra Lad</i>	RRCAT

368	ID-371	Simulation, Characterization and Analysis of I/Q Modulator for High Precision LLRF Systems	Nitesh Mishra*, Pritam S. Bagduwal, Nitesh Tiwari and Mahendra Lad	RRCAT
369	ID-372	Synchronized RF Signal Generation and Pulsed Digital Control System for SHPB of IR-FEL	Pritam S. Bagduwal*, Dheeraj Sharma, Nitesh Tiwari and Mahendra Lad	RRCAT
370	ID-373	Design and Development of a novel waveguide break for 14GHz and 18 GHz ECR ion source	Anuraag Misra* and P.Y.Nabhiraj	VECC
371	ID-374	Sterilization of medical products using TWINDUS-1 Linac: A dosimetric measurement	V.P. Verma*, A.S. Mishra, A.K. Jain, A. Srivastava, R. Choudhary, V.C. Perwal and J. Dwivedi	RRCAT
372	ID-375	Material Selection for "Beam Dumps" at Various Beam Energy Stages for 1 GeV High Intensity Proton Linac	Nidhin. S. L*, S. C. Joshi and C. P. Paul	RRCAT
373	ID-376	Upgradation of Search and Secure System at PLF	C. Rozario*, S. Pal, S.M. Powale, V. Nanal and R.G. Pillay	TIFR
374	ID-377	Experience of LINAC operation with gas stripper at PLF Mumbai	S. Pal*, J.N. Karande, Prajakta Dhumal, S.C. Sharma, Q.N. Ansari, P. Surendran, Vandana Nanal and R.G. Pillay	TIFR
375	ID-378	Estimation of radioactive waste generated and its dose assessment at medical cyclotrons while producing radiopharmaceuticals	K. Srihari*, Mausumi Sengupta Mitra, R. Ravishankar, Tapas Bandyopadhyay and M.K.Das.	VECC
376	ID-379	Neutron diagnostics for accelerator based 14-MeV neutron generator	M. Abhangi, SudhirsinhVale*, Ramesh Kumar, S. Tiwari and M. Rajput	IPR
377	ID-380	Oblique argon beam irradiation in Si (111) utilizing 200 keV Ion Accelerator	Dhyva Gupta*, Rimpi Kumari, Sanjeev Aggarwal and Annu Sharma	Kurukshetra University
378	ID-381	Operational Safety Review of K-130 Room Temperature Cyclotron, VECC, Kolkata	Haradhan Ghosh, M. K. Pathak*	ERRC, AERB, Kolkata
379	ID-382	Low energy rare ion beam set up for surface science and nuclear spectroscopy studies at RIB-VECC Kolkata	P. Karmakar*, V. Naik, D. Lavanyakumar, M. Bhattacharya, D. Bhowmik, A. Bandopadhyay and A. Chakrabarti	VECC
380	ID-383	Development of a High-Energy Transmission Laue Diffraction Setup using a Medical LINAC	B. Mallick*, K. S. Jena, S. K. Biswal, A. K. Rath and Shradhanjali Behera	IoP
381	ID-384	Status Report of 3MV Pelletron Accelerator at Institute of Physics, Bhubaneswar	Satyaprakash Sahoo, Anup Kumar Behera, Ramarani Dash, Madhusudan Majhi, Khirod Chandra Patra, Biswajit Mallick, Arakhita Sahoo and Pratap Kumar Biswal	IoP
382	ID-385	Neutron dose measurement for ⁹ Be (p, n) reaction at different proton energies	G.S. Sahoo*, S. Paul, S.P. Tripathy, S.C. Sharma, A.A. Shanbhag, D.S. Joshi and T. Bandyopadhyay	BARC
383	ID-386	Applications of SRXRF and PIXE for trace elemental analysis in blood serum of breast cancer patients undergoing successive chemotherapy	B. Gowri Naidu, P. Sarita*, S. Srikanth and G. J. Naga Raju	Gitam University, Vizag
384	ID-387	Development of X-ray Target for Industrial Electron Linac	R.S. Choudhary*, R.S. Sandha, S.G. Goswami, V.C. Perwal, V.P. Verma, Jishnu Dwivedi, T. Veerbhadrach, Brahmaanand Sisodia, V. Bhatnagar, S.Chouksey and G. Mundra	RRCAT
385	ID-388	Large area low flux proton irradiation set up and applications at BARC-TIFR Pelletron Accelerator	J. P. Nair, P. Surendran, Hillary Sparrow and A. K. Gupta	BARC
386	ID-389	Status Report of 6 MV FOTIA and LEAF Accelerators at BARC	A. Agarwal*, S.K. Singh, A. Basu, Sapna P, N. B. V. Subrahmanyam, V. P. Singh, J. P. Bhatt, S.V. Ware, S.S. Pol, and Pramod V. Bhagwat	BARC
387	ID-390	Ion Beam Based Characterization of Triple GEM Detector	P. K. Sahu*, S. Sahu, B. Mallick, D. S. Bhattacharya, S. Swain and S. Dani	IoP
388	ID-391	Commissioning of Search and Secure Interlock System for LEHIPA facility at BARC	Sapna Padmakumar, Shalaja V Ware, N.B.V Subrahmanyam, Deepak N.M.S.K.Singh, P.V Bhagwat, Premkumar Kavalan, Ratna Bhamra, S.K Jain, D.A Roy and U.W Vaidya	BARC
389	ID-392	Studies on streaming radiation through an open duct of room temperature cyclotron: a shielding up gradation and guideline of dose rate profile at different proton beam energies	Kousiki Ghosh Jana*, S. K Mishra, R Ravishankar, Tapas Bandyopadhyay	VECC
390	ID-393	STATUS OF LINAC BASED RADIO ISOTOPE GENERATION	Abhay Deshpande*, Tanuja Dixit, R. Krishnan, Anil Kumar Mishra, Sanjay Petha, Shubhra Chaturvedi, Puja Panwar, Kiran Thakur, Mandar Vidwans, C. S. Nainwad, Sandesh Bhat, Ganesh Gaikwad, Paresh Jadhav, Manoj Kumbhare, Sandeep Name, R. Sandeep Kumar, Sameer Mathe, Krutika Natu and Saurabh Singh	SAMEER
391	ID-394	Bremstrahlung X rays from DT based neutron source	E.Alagu Raja*, P.Sugumar, R. Baskaran and B.Venkatraman	IGCAR
392	ID-395	Operational experience with 1.5SDH Pelletron accelerator for AMS applications at IUAC, Delhi	Rajveer Sharma*, Pankaj Kumar, Sunil Ojha, Satinath Gargari, Rajan Joshi, S Chopra and D Kanjilal	IUAC
393	ID-396	Upgradation, utilization and present status of 500keV DC Accelerator at BRIT Vashi.	D.K. Sharma*, R.N. Rajan, R.I. Bakhtsingh, D. Jayaprakash, V. Sharma, R. Patel, D. Bhattacharjee, N.C. Chaudhary, S.R. Ghodke, S.K. Srivastava, S. Dewangan, S. Das, S. Gond, N.K. Lawangare, A.G. Waghmare, N.B. Thakur, S.A. Harer, S. Acharya and R.K. Rajawat.	BARC
394	ID-397	Overview of 5SDH2 Pelletron Accelerator based Ion Beam Analysis Application at IUAC Delhi.	G. R. Umaphathy*, Sunil Ojha, S. Gargari, S. Chopra and D. Kanjilal	IUAC