PROGRAMME SCHEDULE

Day 3 : 18 December 2019 (Wednesday)

Time (hrs)	Event	Venue
0900 – 0945	Plenary Session (PS VII)	IC & SR Auditorium
Technical Session – IV		
0945 – 1115	4A : Rocket Propellant Study (E-021 – E026)	IC & SR Auditorium
	4B : Safety & Disposal Techniques (J-001–J-006)	Hall I
	4C : Quality Assurance & Detection of Explosives (I-009 – I-014)	Hall II
	4D : Combustion Study (B-013 – B-017)	Hall III
	4E : Pyrotechnics & Expls. (C-009 – C-012)	Annex Hall
1115 – 1130	**Tea Break**	IC & SR
Technical Session - V		
1130 – 1300	5A : Rocket Propellant Study (E-027 – E-031)	IC & SR Auditorium
	5B : Safety & Disposal Techniques (J-007–J-009)	Hall I
	5C : High Explosives (F-013 – F-018)	Hall II
	5D : Gun Propellants (G-001 – G-005)	Hall III
	5E : Modeling & Simulation (H-007 – H-012)	Annex Hall
1300 – 1400	**Lunch**	IC & SR
1430 – 1500	**Valedictory Function**	SAC

Oral Presentation Schedule Day 3 : 18 December 2019 (Wednesday)

Venue: Auditorium, IC & SR

All the presentations should be submitted before 1730 hrs on 17-12-2019

S.no.	Paper ID.	Title of the Paper	Time (hrs)
Session I : 0945-1115 hrs Session Title: Rocket Propellant Study			
1.	E-021	Study on response of highly filled composite propellants for oscillatory loads *Lisha Vipin, Dr. Ramesh Kurva, Dr. Manoj Gupta and KPS Murthy*	0945 - 1000
2.	E-022	Development of high density composite propellant formulations for lower stage rocket motors *Lisha Vipin, Dr. Ramesh Kurva, Sunil Jain and Dr. Manoj Gupta*	1000 – 1015
3.	E-023	Blending of Hydroxy terminated polybutadiene (HTPB) with wide variation in properties and its implication on solid propellant mechanical properties *Subhrorup Pal, Santosh Borle, Ramesh Banoth, Dr. Gaurav Agnihotri, B Sanyal, Dr. MVL Ramesh*	1015 – 1030
4.	E-024	Development and characterization of solid fuel propellants for Hybrid propulsion *P.S.Sathiskumar, Yatendra kumar, Manikuttan C, S Umasankar, Levin G*	1030 – 1045
5.	E-025	Experimental Studies on Ignition Transients of Short Burn Motor with Extruded Double Base Tubular Grains *Rajesh Maji, V Ravi Prasad, Ganesh S, K Sampath Kumar, MPR Sharma, A P Vardhan*	1045 – 1100
6.	E-026	Study of influence of higher cure temperature on propellant characteristics and throughput of solid propellant rocket motors *Shaik Ali and Betarayan Munirathinam*	1100 – 1115

Day 3 : 18 December 2019 (Wednesday)

Venue: Auditorium, IC & SR

S.no.	Paper ID.	Title of the Paper	Time (hrs)
Session II: 1130-1300 hrs Session Title: Rocket Propellant Study			
1.	E-027	Synthesis of Hybrid Rocket Paraffin Based Fuel with nSi**O**2 *Jessima Parveen. H, Dr. Yogesh Kumar Sinha*	1130 – 1145
2.	E-028	Study on the effect of variations in solid propellant modulus on burning rate of ballistic evaluation motors *Sai Karthik.P, Jatendra Nirankari Srinivasa Rao.B,Karthikeyan B, P V S Kurmanath, A Syed Hamed*	1145 – 1200
3.	E-029	Effect of segmental compatibility imposed over metal based polybutadiene polyurethane *Moumita Dhara and Tushar Jana*	1200 – 1215
4.	E-030	Twin Screw Continuous Mixer for Processing of Composite Propellant *Vijaykumar Nidagalkar, K. M. Ananthapadmanabha, S. V. Mansur, B. R. Mohanraj*	1215 -1230
5.	E-031	Study of control characteristics of automatic propellant slurry feed system for casting of large solid propellant boosters *Chandra Prakash Kotwal, P Abdul Rahman, Madhusudhan Nath, S Venkata Ganesh Sandeep Singh, M. Prasad, Dr. B. Munirathinam, V. Ranganathan*	1230 – 1245

Day 3 : 18 December 2019 (Wednesday)

Venue: Hall - I, IC & SR

S.no.	Paper ID.	Title of the Paper	Time (hrs)
Session V: 1130-1330 hrs Session Title: Safety & Disposal technique			
1.	J-007	Safety Management and Emergency Preparedness Plan for Defence Explosive Facilities S.Thalapathi Raj, SL Silan , and Jaiprakash Kamal	1130 – 1145
2.	J-008	Safety Service Life Studies using Micro Calorimetry and Stabilizer Depletion for Ballistite Propellants *T K Varadarajan and S S Kakade*	1145 – 1200
3.	J-009	Treatment of ammonium perchlorate and its sequestration in the form of struvite *Kodam Kisan, Mane Dhanaji, Rane Niraj, Nandre Vinod*	1200 – 1215

Day 3 : 18 December 2019 (Wednesday)

Venue: Hall - I, IC & SR

S.no.	Paper ID.	Title of the Paper	Time (hrs)
Session IV : 0945-1115 hrs Session Title: Safety & Disposal Technique			
1.	J-001	Studies on photo-degradation of HMX wastewater using medium pressure UV lamp. *Pallvi Bhanot, S. Mary Celin, Sandeep Kumar Sahai, R. K. Tanwar, G. K.Mishra and Praveen Sharma.*	0945 – 1000
2.	J-002	Post Explosion Damage Assessment *Hemlata Gautam, Neelam Saxena, HL Yadav, Rajiv Narang*	1000 – 1015
3.	J-003	New mechanical tilting system for safe removal and disposal of machined chips and dust of solid propellant from modified gravity collector *Kuldeep Kumar Tomar, A. Balamurali & V. Ranganathan*	1015 – 1030
4.	J-004	Optimization of Explosive/Ammunition Storage Capacity of an Explosive Storage Depot *Mukesh Saw, Prabhanjan Kumar Thakur, Bimal Kumar, Gulshan Kumar Singla, Sumit Kumar*	1030 – 1045
5.	J-005	Nano-particle enhanced Femtosecond Laser induced breakdown spectroscopy of organic polymers. *N.Linga murthy, M.S.S.Bharathi, Abdul kalam S , Venugopal Rao Soma*	1045 – 1100
6.	J-006	Environmental Safety Assessment during Test and Evaluation of Flight Vehicles *S K Sahu and RK Behera*	1100 – 1115

Day 3 : 18 December 2019 (Wednesday)

Venue: Hall - II, IC & SR

S.no.	Paper ID.	Title of the Paper	Time (hrs)
Session IV : 0945-1115 hrs Session Title: Quality Assurance & Detection of Explosives			
1.	I-009	Calibration of HPLC for HMX and RDX Purity Determination *Nikhilesh S. Trivedi, Roshnee Das, Per Sjoberg, R. Mikael*	0945 - 1000
2.	I-010	Study of Batch to Batch Variation of Burn Rates of Ammonium Perchlorate Monopropellant *Mahesh Shrikishan Ingole, Kumar Nagendra, P.A. Ramakrishna*	1000 – 1015
3.	I-011	Planning of nondestructive coverage and techniques for new solid propellant motors *Betarayan Munirathinam*	1015 – 1030
4.	I-012	Estimation of Ammonium perchlorate in Solid Propellant Slurry by a simple and rapid non-aqueous potentiometric titrationmethod *M. Rajya Lakshmi, G. Kumari, S. Selva Kumar, T.V Ramana Reddy& A. Syed Hamed*	1030 – 1045
5.	I-013	Development of a Consistent Burn Rate Determination Methodology for Ballistic Evaluation Motor *Kiran Pinumalla, Prasanth C, Khadar Voli Kalluru, Deepak Sharma, Jeenu R, Krishnadasan CK and Levin G*	1045 – 1100
6.	I-014	Quantification of Composite insulation flaws in large solid propellant rocket motors using high energy radiographic techniques *B Munirathinam, V Ramesh Babu, Pravakar Ojha and V Ranganathan*	1100 – 1115

Day 3 : 18 December 2019 (Wednesday)

Venue: Hall - II, IC & SR

S.no.	Paper ID.	Title of the Paper	Time (hrs)
Session V: 1130-1330 hrs Session Title: High Explosives			
1.	F-013	Shock Attenuation Characterisation of AA2014, AISI 304 SS and 17-4PH Subjected to Explosive Driven Shock *Pramod R Nair, N.Vinod Kumar, Baby Abraham, M. Mohan*	1130 – 1145
2.	F-014	Experimental Study of HMX, HTPB and Al based EBX Formulation for Enhanced Blast Effects *Manish Kumar, Shiv Kumar, Mahesh Kumar, Tirupati Sharma, Dhirendra Gupta, N. Mukherjee*	1145 – 1200
3.	F-015	A Study on Sympathetic Detonation of High Explosive Elements for Launch Vehicle Application. *Piyushkanti Kar, B Dutta Majumdar, Vincy PV, Vinodh Kumar CP, Divya PL, Vinod RC Chackochen MK, Subendulal KP, Ruben V Lopez, Baby Abraham*	1200 – 1215
4.	F-016	Investigation of TNT Equivalence of Aluminized Explosives *Satveer Kumar, Surinder Kumar, Shiv Kumar, Manish Kumar, Meenakshi Kala Bhatt, Chinmay Sarkar, Niladri Mukherjee*	1215 -1230
5.	F-017	Effect of Strain Rate on Mechanical behavior of a Polymer Bonded Explosive *Gurpreet Kaur, Raj Kumar Kaushik, Prince Sharma, Pardeep Chandel, Davinder Kumar, Ipsita Biswas and Manjit Singh*	1230 – 1245
6.	F-018	Pyrotechnic Igniter Impingement Study *Sumit Sarma* , V. Ravi Prasad, *Kumar Nagendra, P.A. Ramakrishna*	1245 – 1300

Day 3 : 18 December 2019 (Wednesday)

Venue: Hall - III, IC & SR

S.no.	Paper ID.	Title of the Paper	Time (hrs)
Session IV : 0945-1115 hrs Session Title: Combustion Thermal & Ballistic Property Studies			
1.	B-013	Thermal Studies on High Performance Cast Polymer Bonded Explosive (PBX) Formulations *P.P. Vadhe, N.H. Naik, U.S. Prasad, R.K. Sinha and K.P.S. Murthy*	0945 - 1000
2.	B-014	Studies on Thermal Properties of Advanced Energetic Propellants *Amit Kumar, Prakash V Chavan, Vaibhav S. Sadavarte, Debdas Bhowmik, Shrikant M Pande,*	1000 – 1015
3.	B-015	Studies on the Catalytic Activity of Nickel Molybdenum Oxide on Thermal Decomposition of Ammonium Perchlorate and its Evaluation in Composite Propellant Formulation *Sunil Jain, Vommina Sumanvitha, Basava Jyothsna, Harmeet Singh, Vrushali Khire, N.P.N. Rao & K. Balasubramanian*	1015 – 1030
4.	B-016	Effect of Heating Rate on Melting Point of HMX, RDX, TNT and PETN *Roshnee Das, Nikhilesh S. Trivedi, Per Sjoberg, R. Mikael*	1030 – 1045
5.	B-017	Thermal analysis of solid propellant specimen with integrated multi material kept in thermal conditioning chamber *Khadar Voli Kalluru, Deepak Sharma, Kiran Pinumalla, Prasanth C, Jeenu R, Krishnadasan CK and Levin G*	1045 – 1100
6.	B-018	Development of H2O2 Based Hybrid Rocket for Sounding Rocket Application *Gaurav Marothiya, P.A. Ramakrishna, N. Saravanan, Praveen Kumar Solasa*	1100 – 1115

Day 3 : 18 December 2019 (Wednesday)

Venue: Hall - III, IC & SR

S.no.	Paper ID.	Title of the Paper	Time (hrs)
Session V: 1130-1330 hrs Session Title: Gun Propelants			
1.	G-001	Analysis and experimentation of gun propellant gas initiated rocket motor system of 120mm bomb for high 'g' application *Milind S Bokade, CS Mahapatra, Manish Chandra, Sanjaykumar, RP Pandey*	1130 – 1145
2.	G-002	Engineering Level IM Test Results for 155mm Extended Range XM1128 HE Projectile *Keyur Patel*	1145 – 1200
3.	G-003	Increasing the effectiveness of combined damaging elements in the defeat of lightly armored targets *E.A. Khmelnikov, K.V. Smagin, T.E. Zavodova*	1200 – 1215
4.	G-004	Effect of Barrel Wear on Muzzle Velocity of typical Tank-fired projectiles *A Banerjee, S Chakraborty, S Paul, K Bandha, B Hazarika*	1215 -1230
5.	G-005	Studies on Closed Vessel Evaluation of Nitramine-Based Large-Web Gun-Propellants *C.P.Shetty, Pragati Mehta, Sandeep Kaur, K.K.Mishra, R.K.Jha,Vikram Singh, Dr.Himanshu Shekhar*	1230 – 1245

Day 3 : 18 December 2019 (Wednesday)

Venue: Annex Hall, IC & SR

S.no.	Paper ID.	Title of the Paper	Time (hrs)
Session IV : 0945-1115 hrs Session Title: Pyrotechnique & Civil Explosives			
1.	C-009	Potassium Nitrate based Pyrotechnic Compositions as the Most Efficient Fire Extinguishing Agents *Amit Saxenaa, Meenakshi Rohillaa,b, Kavita Devia, Piyush Sharmaa, Inderpal Singha, Yogesh Kumar Tyagib and Rajiv Naranga*	0945 - 1000
2.	C-010	An Approach for the Qualification of Bridge wire for Hot wire Initiators *Dr. Rani Krishnan K.R., Neethu T.K., Savitha Nair, I. Mohana Rao, Kumar H, Purushothaman P, Mohan M.*	1000 – 1015
3.	C-011	Study on Effect of Processing parameters on Velocity of Detonation of Mild Detonating Cords *Vinodh Kumar CP, Piyushkanti Kar, Vincy P V, Venugopalan K , Ruben V Lopez, Baby Abraham*	1015 – 1030
4.	C-012	Design & qualification testing of gas generator for aircraft application *B A Parate, JG Bamble, A K Sahu, V K Dixit*	1030 – 1045

Day 3 : 18 December 2019 (Wednesday)

Venue: Annex Hall, IC & SR

S.no.	Paper ID.	Title of the Paper	Time (hrs)
Session V: 1130-1330 hrs Session Title: Modelling & Simulation			
1.	H-007	A statistical approach for validation of Subsieve Auto Sizer in solid propellant production *Soyamol Thomas, Sreedevi M S, Ramya P R, Rani Mathammal B, Sai Ganesan H and Prakash P*	1130 – 1145
2.	H-008	Studies on Exploring the Capabilities of Extec Software and Correlations Development for VoDs Predictions *Vilas B Avhale, A G Nagarkar, R K Sinha and KPS Murthy*	1145 – 1200
3.	H-009	Implosion Driven Hypervelocity Fragment Launcher: Experiments and Simulations *P.N. Verma, M.V. Suryawanshi, K.D. Dhote, Satwinder Sigh, V.K. Dixit, H.K. Gogoi, M.K. Singh, G. Rajesh, T.Y. Saidalavi*	1200 – 1215
4.	H-010	Study on Various FLSC Mounting Configurations through Hydrocode Modeling *Bishwajyoti Dutta Majumdar, Shete Mayuresh Kailas, Pramod R Nair, Sheeju Chandran, Purushothaman P, Baby Abraham*	1215 -1230
5.	H-011	Identifying optimum % of RDX in modified double base propellants for improved life expectancy using mathematical modelling *Roopa A , Sarvana SKB*	1230 – 1245
6.	H-012	Design of rocket engine with swivel nozzle *S.Irish Angelin, P.Manikandan, S.Hari Balaji, J.John Joseph, G.Mohanraj*	1245 – 1300

Posters Schedule (Venue: Hall 4, IC & SR)

Day 3 : 18 December 2019 (Wednesday)

All the Posters for Day 3 (18th December 2019) should be on the panels before 0900 hrs

S.no	Paper ID	Title of the Paper & Authors
I. COMBUSTION, THERMAL & BALLISTIC PROPERTY STUDIES		
1.	PB-013	IR Studies and Improvisation of Reaction Yield of Boron Process *Pankaj Deshwal, P M Jadhav, Hima Prasanth and R K Pandey*
2.	PB-014	Thermal decomposition kinetics of copper barium ammonium chromate *Arti Pant, Abhishek Kumar, P.M.Jadhav, Hima Prasanth, RK Pandey*
3.	PB-015	Studies on the sensitivity and thermal behavior of DOP coated CL-20 explosive *M K Singh, S K Jangid, G Pandit, V J Solanki, M B Talawar and R K Sinha*
4.	PB-016	Particle Classification and Thermal Stability of Fine Ammonium Perchlorate: A Comparative Study on Ground and Re-crystallized Material *Mrinal Ghosh, N Thirupathi, V B Sutar, P Paramsivan, A K Mandal, R K Pandey and K P S Murthy*
5.	PB-017	Feasibility Study of Safe and Controlled Combustion in Naval Armament Using Electric Solid Propellant Technology *Vivek kumar , Y Praveen Kumar*
6.	PB-018	Thermal and ballistic properties of iron metallocene grafted binders in propellant with mono modal distribution of Ammonium perchlorate *M. Sreejith, Gayathri. S, Santhosh. G, S. Reshmi*
7.	PB-019	Numerical estimation of thermal equilibrium time for solid propellant specimen kept in iso-thermal compartment *Deepak Sharma, Khadar Voli Kalluru, Kiran Pinumalla, Prasanth C, Jeenu R, Krishnadasan CK and Levin G*
II. SYNTHESIS, CHARACTERIZATION & STRUCTURAL ANALYSIS OF HEMS		
1.	PD-014	Structure-stability study of ferrocenyl-silane grafted polymer derived from Hydroxy-terminated polybutadiene (HTPB), vinylferrocene and di methoxy/ethoxy/ethyl silanes *P. Ravi, D. Jagan Mohan and Sudha Kumaraswamy*
2.	PD-015	Process Scale-up of Ammonium Dinitramide (ADN) at Kilo Scale level under Sub-Zero Conditions *J Singh, S K Singh, P A Sagar, A K Mandal & R K Pandey*
3.	PD-016	A Novel Method for Isolation of Reaction By-products and Yield Enhancement of Ammonium dinitramide (ADN) *Mrinal Ghosh, Anand Sagar, S K Singh, Jaivindra Singh, A K Mandal and R K Pandey*
4.	PD-017	Design and development of multiple grain cassette casting system for processing small propellant grains in large numbers *Dr. Ramesh Kurva, S G Ukey, M V Modgi and Dr. Manoj Gupta*
5.	PD-018	Synthesis & Characterization of Polyphosphazene based Functional Polymers for Insulation of Rocket Motor *Abhay Yadav, Suresh Kumar T, Javaid Athar, Kadhiravan Shanmuganathan, A. P Singh and N. Sikder*
6.	PD-019	Stability of Nitration mixture in manufacturing of HMX *Nikhilesh S.Trivedi, Roshnee Das, Per Sjoberg, R. Mikael*
7.	PD-020	Investigations of Mechanical, Thermal, Fatigue Properties and Tribological Behaviour of Aged Aluminium Hybrid Composites

		Saravanan.G, Karthikeyan.P, Ajithkumar.K ,Sandhiya.R
S.no	**Paper ID**	**Title of the Paper & Authors**
III. ROCKET PROPELLANT STUDIES		
1.	PE-017	Micrographical Investigation of Associated Hazards in Machining Composite Solid Propellants as Basic Inputs for Special Purpose Cutting Tool Design *Kishore Kumar Katikani, Anne Venu Gopal, V.V. Rao and A.K. Mahanta*
2.	PE-018	Optimization of castor oil based polyurethane inhibition resin for rocket segment assembly *Gaurav Agnihotri, Subhrorup Pal, Ramesh Banoth, Deo Kr. Verma, M. V. L. Ramesh and J. C Chaudhary*
3.	PE-019	Shock Sensitivity Studies of Nitroglycerine Plasticized Composite Propellant based on Block Copolymers of Polybutadiene and ε Caprolactone *Harmeet Singh, A K Devangan, N R Jade, Amit Kumar, S M Pande, Arvind Kumar, Priyesh More*
4.	PE-020	Effect of solid loading on time temperature superposition profiles for HTPB/AP/Al propellant system *Lisha Vipin, Dr. Ramesh Kurva, Dr. Manoj Gupta and KPS Murthy*
5.	PE-021	Effect of Fumed Silica on Particle Characteristics of Ammonium Perchlorate *A. K. Tiwari, Md. Ziyaur Rahman, Sushanta Das, T. V. Jagadeeswar Rao*
6.	PE-022	Curing of Anionic Polymerized Polyisoprene with Quinol Ether in Propellant Composition and Study on Mechanical Properties *Pankaaj Verma, RB Mundada, RB Ghavate, JG Bhujbal*
7.	PE-023	Experimental Studies on Ignition Transients on Sub-Scaled Solid Rocket Motor *Valluri Ravi Prasad, Kumar Nagendra, P. A. Ramakrishna*
IV. HIGH EXPLOSIVES		
1.	PF-013	Studies on Nucleation Kinetics of Reduced Sensitive-RDX (RS-RDX) *G M Kunjir, Sandeep Kumar, P A Sagar, E S Subodh Kumar, A K Mandal, R K Pandey*
2.	PF-014	Assay of Ingredients in Plastic Bonded High Explosive (PBHE) Compositions *Rashmi Moreshwar Wagh, Brijesh Singh Meena, Arjun Dutta, Amiya Kumar Nandi, Jaya Kamalesh Nair and Seema Dilip Kakade*
3.	PF-015	Sensitivity Studies of TNT, RDX based Compositions with various Phlegmatizing Agents intended for Bulk Production *T K Varadarajan and S S Kakade*
4.	PF-016	Studies on Effect of Addition of Tungsten on Aluminised Pressed PBXS *Patwardhan SS, Talawar MB, Garg RK, Sinha RK*
5.	PF-017	Effect of Over Driven Detonation on Metal Loaded PBXs *Patwardhan SS, Garg RK, Talawar MB, Sinha RK*
6.	PF-018	Effect of thickness of explosive sheet on its initiation behavior against impact of shaped charge jet *PC Rao, HK Gogoi, SS Bhise, LS Nag, B Kumar, MK Singh, SC Aglawe*

S.no	Paper ID	Title of the Paper & Authors
V. MODELING AND SIMULATION		
1.	PH-011	Numerical analysis of maximum pressure in multi grain solid propellant rocket motor *Balesh ropia, Himanshu Shekhar, D G Thakur*
2.	PH-012	Simulation for prediction of over pressures by 1 kg TNT burried explosion inside sand in a blast containment structure *Priyavrat Sharma, Rajesh Mishra, Kapil Garg, Subha Kumar Sengupta, Rajesh Kumar Tanwar*
3.	PH-013	Analytical Studies for Predicting the effect of Spin on Ballistic Performance of Solid Rocket Motors *Pandey P K, Deshmukh P M, Raut K V, Kachi G T, Jayashree S, Kaur Sandeep, Vishwakarma A K and Rao NPN*
4.	PH-014	Numerical Analysis of Ply angle effect on back wall temperature of Composite Solid Rocket Motor Nozzle *Khadar Voli Kalluru, Deepak Sharma, Kiran Pinumalla, Prasanth C, Jeenu R, Krishnadasan CK and Levin G*
VI. QUALITY ASSURANCE & DETECTION OF EXPLOSIVES		
1.	PI-018	Quantitative analysis of DNDA-57 using Gas Chromatography and High Performance Liquid Chromatography *N. Sikder, A. P. Singh and V. Srivastav*
2.	PI-019	Analysis of effects of various burn rate evaluation techniques and process variability on BEM burn rate measurement *Ashutosh Sharma, Ravi Shankar, T V Jagadeeswar Rao*
3.	PI-020	Quantitative analysis of 1,4,5,8-tetranitroso-1,4,5,8-tetraazadecalin (TNSTAD) using High Performance Liquid Chromatography *A. P. Singh, S. P. Ghosh, S. S.Mhase and N. Sikder*
4.	PI-021	Terahertz based Detection of Explosives in Soil Matrix *Ganesh Damarla , M. Nagaraju and A.K. Chaudhary*
5.	PI-022	Measurement of Stress Relaxation Properties of Propellants using Universal Testing Machine *Jisha Retheesh, SH Sutar, Bikash Ghose, C Gururaja Rao*
6.	PI-023	Methodology for Qualification Testing of Percussion Primer for Space Applications *Vibhav Kumar, Vikram T, Chetal Patel, Sibapada Pal, Umasankar S, Vinod Kumar N, Mohan M*
7.	PI-024	Failure analysis of C-Sic composite Jet vanes at elevated temperatures & Qualification test *Shri Shiv Shankar Verma, Shri D Ravikumar, Shri M Venkanna, Shri T Narasimha Rao, Shri B V Papa Rao*
8.	PI-025	Process Capability Analysis: A measure of Solid Propellant Rocket Motor Quality for PSLV & GSLV Rockets *D.Gokul ,Sai Siddhartha Olety,P.Kanakaraju*

S.no	Paper ID	Title of the Paper & Authors
VII. GUN PROPELLANTS		
1.	PG-001	Thermo-chemical Modeling for Prediction of Impetus of Gun Propellants through Developed Computer Code "SCIFT" *Dr Himanshu Shekhar*
2.	PG-002	Effect of Trans-1,4,5,8- Tetranitroso 1,4,5,8-Tetraaza Decaline (TNSTAD) & RDX on performance of Triple Base Gun Propellant *C. N. Divekar, S. Gogoi, Vasudha Kaul, C. P. Shetty, A. K. Mandal and S. Roy*
3.	PG-003	Studies on Ballistics, Sensitivity and Mechanical Properties of 1,1-diamino-2,2-dinitroethene based Triple Base Propellant for Large Calibre Gun *S M Dahiwale, Chetan Bhongale, S N Asthana*
4.	PG-004	Studies on Methods of Chemical Analysis for Triple Base Gun Propellants *Garima Jaiswal, MAR Shaikh, Anu Abirami, A K Nandi and S Roy*
5.	PG-005	Studies on Reaction Dynamics for preparation of transtetranitrosotetraazadecalin (t-TNSTAD) *Sandeep Kumar, G M Kunjir, P A Sagar, E S Subodh Kumar, A K Mandal, R K Pandey*
6.	PG-006	A Rapid Method for Analysis of High Performance Gun Propellant (HPGP) *A. P. Singh, S. S. Mhase and N. Sikder*
7.	PG-007	Moisture-content of G12 gun powder: Temperature dependency and its effect on the rate of burning *Pallab Kumar Bairagi, Prashant Kumar and Sunny Talwar*
VIII - OTHER PAPERS		
1.	PL-001	A Comparative Study of Laser Induced Ablative and Blow-off Pressures for Varied Foil Thickness *D. P. S. L. Kameswari, G. Nagaraju, S. Sai Shiva, P. Prem Kiran*
2.	PL-002	Soft chemical preparation of MnO2/RGO composite for high performance supercapacitor *Souvik Ghosh,Pranab Samanta, Santu Kumar Giri, Phani Kumar Mallisetty, BA Landge, Naresh Chandra Murmu , and Tapas Kuila*
3.	PL-003	A parametric study of Laser Generated Plasma Driven Flyer and Shock Wave Characteristics from Rear Side of Aluminum, Copper and Titanium Targets Confined with Glass Substrate *S. Sai Shiva, Nagaraju Guthikonda, P. Prem Kiran, C. D. Sijoy, V. R. Ikkurthi, and S. Chaturvedi*
4.	PL-004	Structural, Optical and Transport Properties of 100 MeV O7+ Ion Beam Irradiated WO3 Thin Films *Rathika R, Kovendhan M, Paul Joseph D, Venkateswaran C, Asokan K and Johnson Jeyakumar S*
5.	PL-005	Cadmium/molybdenum sulphide hybrid material as an active counter electrode for dye sensitized solar cell application *Akshaya. S, Franklin Manik Clinton, Hemalatha. K.V., Karthick. S.N*
6.	PL-006	Parametric study of varying explosive loading ratios for cladding of large sized Steel-Aluminium combination *Abhishek Upadhyay, Bir Bahadur Sherpa1, Sandeep Kumar, Niraj Srivastava, Pal Dinesh Kumar, Arun Aggarwal*
7.	PL-007	Aerodynamic characteristics of crew reentry modules *Mingma Tsering, Nitya Kumar, Vishnu Kumar G C, Eusbious Theodynosious Chullai & Dilip A Shah*
8.	PL-008	Thermal Behaviour, Kinetics and Reaction Model of Energetic Copper (II) complex based on 3,5 Dinitrobenzoic Acid and 2,2'Bipyridine *Priyanka, Arjun Singh, Subash Chandra Sahoo, Pramod Kumar Soni*