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International Conference
on



Space Society of Mechanical Engineers
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Space Applications Centre, ISRO Ahmedabad

Futuristic Advancements in Materials, Manufacturing and Thermal Sciences
(ICFAMMT 2022), January 20-22, 2022



Jointly organised by


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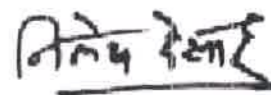
Certificate of Presentation

**Paper Title: Effect of Nanofluid and Electrostatic Disjoining Pressure on Heat Transfer from an
Evaporating Meniscus**

Author(s) name: Ritesh Dwivedi, Saumya Singh and Pawan K. Singh

This is to certify that Dr./Mr./Ms. **Pawan K. Singh** has presented the above mentioned paper in
ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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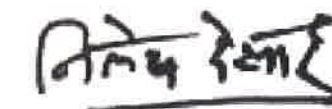
Certificate of Presentation

Paper Title: Parametric study on Steady State Ammonia based Loop Heat Pipe

Author(s) name: Shail Shah, Sanjay Jain, Mr. Kamlesh Baraya and Madhusudan Achari

This is to certify that Dr./Mr./Ms. **Shail Shah** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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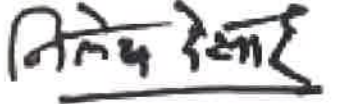
Certificate of Presentation

**Paper Title: Impact of Titanium Oxide (TiO₂) Based Nanofluid on Parabolic Trough Solar Concentrating
Collector**

Author(s) name: Shri Ram Bhardwaj, Surendra Kumar Yadav and Arvind Kumar

This is to certify that Dr./Mr./Ms. **Shri Ram Bhardwaj** has presented the above mentioned paper
in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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Paper Title: Experimental investigation on thermo-electric generator used in IC engines

Author(s) name: B. Naveen Kumar and Ganesh Kumar Gampa

This is to certify that Dr./Mr./Ms. **B. Naveen Kumar** has presented the above mentioned paper
in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.

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Paper Title: Transient Thermal Modelling of Thermoelectric Coolers

**Author(s) name: Akshat Patel, Surendra Sisodia, Vivek Singh, Prasanta Das, Rakesh Bhavsar and Vikas
Lakhera**

This is to certify that Dr./Mr./Ms. **Akshat Patel** has presented the above mentioned paper in
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Paper Title: Identification of the heat transfer coefficient in space-time using simplified brake pad models

Author(s) name: Vikash Agrawal and Hrishikesh Khairnar

This is to certify that Dr./Mr./Ms. **Vikash Agrawal** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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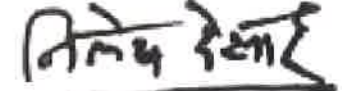
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**Paper Title: Transient Heat Transfer Analysis on Coaxial Surface Junction Thermocouples of Types K, E,
and J**

Author(s) name: Chaganti Apoorvapriya and Ravi Peetala

This is to certify that Dr./Mr./Ms. **Chaganti Apoorvapriya** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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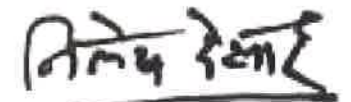
Certificate of Presentation

Paper Title: Experimental investigation of concentric tube heat pipe heat exchanger with neuro fuzzy model using ANFIS

Author(s) name: Ramkumar P, Vivek C.M, Srividhya P.K, Anish Nair, Sivasubramanian M and Ramasamy S

This is to certify that Dr./Mr./Ms. **Ramkumar P** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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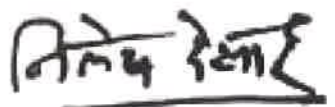
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Paper Title: Comparison of heat transfer characteristics of nanofluids for electric vehicle battery thermal management

Author(s) name: Sankeeth S.G, Kathiresan S, Harish J, Srihari D and Harish Rajan

This is to certify that Dr./Mr./Ms. **Sankeeth S.G** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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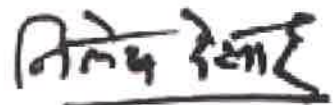
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**Paper Title: Heat transfer characteristics of plate heat exchanger with bubble fin using Al_2O_3 /water
nanofluid: Numerical investigation**

Author(s) name: Sandeep Kumar, Sudhir Kumar Singh and Deepak Sharma

This is to certify that Dr./Mr./Ms. **Sandeep Kumar** has presented the above mentioned paper in
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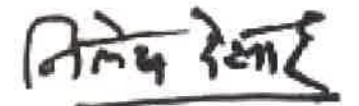
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**Paper Title: Theoretical Investigation of Base Fluid Type in Nanofluids for Heat Transfer Enhancement in
Multidisciplinary Engineering Applications**

Author(s) name: Brinda N, Prem Raj, Amod Yadav, Monika H P and Somashekar V

This is to certify that Dr./Mr./Ms. **Brinda N** has presented the above mentioned paper in
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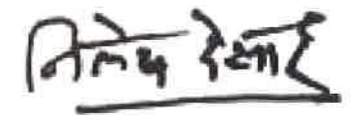
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Paper Title: Thermal Management Challenges in Small satellites

Author(s) name: Kamlesh Kumar Baraya

This is to certify that Dr./Mr./Ms. **Kamlesh Kumar Baraya** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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Paper Title: A brief review on the pros and cons of the different fuel injection strategies adopted in Scramjet

Author(s) name: Parth Gaud and Gautam Choubey

This is to certify that Dr./Mr./Ms. **Parth Gaud** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.

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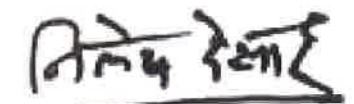
Paper Title: A Novel Modelling Approach for Dent Identification and Sizing for Oil and Gas Pipeline

Author(s) name: Aawish Kumar, Surya Prakash and Ashish Kumar Srivastava

This is to certify that the above mentioned authors have participated in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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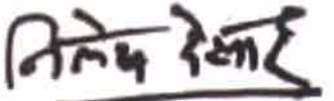
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Paper Title: Wettability interaction on two-phase flow in microfluidic flow-focusing geometry

Author(s) name: Rakesh Majumder and Gautam Choubey

This is to certify that Dr./Mr./Ms. **Rakesh Majumder** has presented the above mentioned paper
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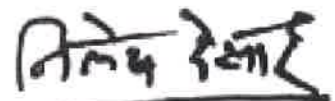
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Paper Title: Design and testing of a liquid rocket engine

Author(s) name: Dinesh Kumar G, Hari Krishnan Kj, Gokulakrishnan S, Lokeshwar M and Rogith S

This is to certify that Dr./Mr./Ms. **Dinesh Kumar G** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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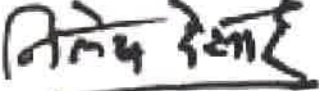
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**Paper Title: A Novel Similarity Solution Approach Based Thermal Performance Prediction of Evacuated
U-Tube Solar Collector Employing Different Mono/Hybrid Nanofluids**

Author(s) name: Bukke Kiran Naik, Rajen Sutradhar, Gaurav Priyadarshi and Aditya Prafull Narkhede

This is to certify that Dr./Mr./Ms. **Rajen Sutradhar** has presented the above mentioned paper in
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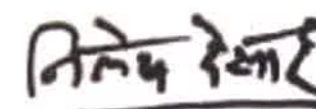
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Paper Title: Impact of Secondary Channel Combined With Different Shaped Cavities and Ribs On Double Layer Micro-channel Heat Sink

Author(s) name: Dipak Debbarma, Krishna Murari Pandey and Abhishek Paul

This is to certify that Dr./Mr./Ms. **Dipak Debbarma** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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Paper Title: Magnetic devices for improving (R134a) refrigerant properties

**Author(s) name: Aditya K. Alagatu, Shivam A. Katkar, Rahul A. Dakare, Shantanu M. Darlinge, Sarthak
C. Lautawar, Santosh B. Jaju, and Ashish S. Raut**

This is to certify that Dr./Mr./Ms. **Aditya K. Alagatu** has presented the above mentioned paper
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**Paper Title: Parametric investigation of the inclusion of divergence angles in a Cavity-Based Scramjet
Combustor**

Author(s) name: Malhar Solanki, Tathya Bhatt, Kshitij G and Gautam Choubey

This is to certify that Dr./Mr./Ms. **Malhar Solanki** has presented the above mentioned paper in
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Paper Title: Computational Analysis on the Flow Behaviour and Performance Evaluation of Single and Double Offset Butterfly Valves

Author(s) name: Kushal Saxena, Nivedita Bhaduria and Vivek Kumar Patel

This is to certify that Dr./Mr./Ms. **Kushal Saxena** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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Paper Title: Spiral wound gasket in a typical liquid engine convergent-divergent nozzle

Author(s) name: Suman Sharma, Chitaranjan Pany and Suresh R

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Certificate of Presentation

Paper Title: Analysis of Thermal Stress in Process Piping System

Author(s) name: Sankar Suresh and Lokavarapu Bhaskara Rao

This is to certify that Dr./Mr./Ms. **Sankar Suresh** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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Paper Title: Feasibility study on the development of PGS based Flexible Radiator for deep space applications

Author(s) name: N Ashraf Khan, Surendra Singh Sisodia, Vivek Kumar Singh, Prasanta Das, Rakesh R Bhavsar and A Elayaperumal

This is to certify that Dr./Mr./Ms. **N Ashraf Khan** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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Paper Title: Study of aerodynamic components on the rear of the car and the effects of varying design parameters

Author(s) name: Harshit Dawar, Gurparas Singh and Himanshu Singh

This is to certify that Dr./Mr./Ms. **Harshit Dawar** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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Paper Title: CFD analysis on thermal performance of nano-fluids in electric vehicle battery

Author(s) name: Palaniappan P.L, Lokeswar T.T.K, Adhitya V and Harish Rajan

This is to certify that Dr./Mr./Ms. **Palaniappan P.L** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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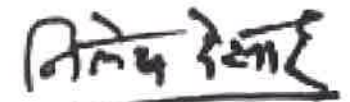
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Paper Title: Analysis of Parameters Affecting Effectiveness of Industrial Cooling Towers

Author(s) name: Jitendra Hemwani, Raj Kumar Satankar, Yatna Bhagat and Y. P. Deshmukh

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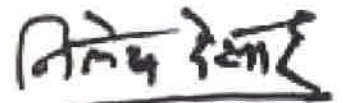
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Paper Title: Numerical Investigation for Selection of Airfoil with Regard to Flying Wing Applications

**Author(s) name: Sandhya Rani S, Sachin Raj R, Rakshith G R, Chaitra Shashikant Paragi and
Somashekar V**

This is to certify that Dr./Mr./Ms. **Sandhya Rani S** has presented the above mentioned paper in
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Paper Title: Finite element simulation of T-shape branch using Tube- hydroforming process

Author(s) name: Moti Lal Rinawa, Neeraj Saini, Amit Kumar Sharma and Ankur Dutt Sharma

This is to certify that Dr./Mr./Ms. **Moti Lal Rinawa** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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**Paper Title: Effect of temperature, volume fraction and nanoparticle diameter on thermal conductivity
and viscosity of Al₂O₃-CO₂ nanofluid**

Author(s) name: Zeeshan Ahmed, Satyajeet Parida and Vivek Singh

This is to certify that the above mentioned authors have participated in ICFAMMT-2022 held
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Paper Title: Computational investigation of transverse fuel injection scramjet combustor for different incoming Mach numbers

Author(s) name: Namrata Bordoloi, Krishna Murari Pandey and Gautam Choubey

This is to certify that Dr./Mr./Ms. **Namrata Bordoloi** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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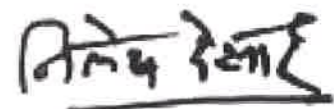
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Paper Title: A Review on the Selection of Materials and Heat Transfer Properties in Scramjet Engines

Author(s) name: Namrata Bordoloi, Krishna Murari Pandey and Gautam Choubey

This is to certify that Dr./Mr./Ms. **Namrata Bordoloi** has presented the above mentioned paper
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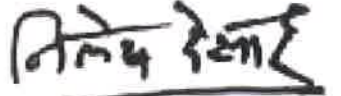
Certificate of Presentation

**Paper Title: Numerical Investigation on Combustion Performance of Various Fuels in Wedge Shaped Strut
Based Scramjet Combustor**

Author(s) name: Kumari Ambe Verma, Krishna Murari Pandey and Gautam Choubey

This is to certify that Dr./Mr./Ms. **Kumari Ambe Verma** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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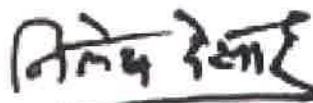
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Paper Title: Truncated Double Layer Micro-channel Heat Sink and Performance Improvement By Implicating Secondary Channel Combined with Appropriate Cavities and Ribs in Channel Flow

Author(s) name: Dipak Debbarma, Krishna Murari Pandey and Abhishek Paul

This is to certify that Dr./Mr./Ms. **Dipak Debbarma** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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Paper Title: A Critical Review on Mechanical Heat Switches for Space Applications

Author(s) name: Banka Raghuram, Vinit Malik, Bukke Kiran Naik and Kishore Singh Patel

This is to certify that Dr./Mr./Ms. **Vinit Malik** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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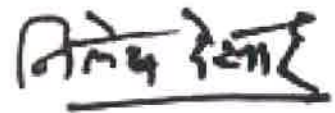
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**Paper Title: A review on Enhancement of Heat Transfer Characteristics of Various Nanofluids Flow
through Parallel Flow and Counter Flow Heat Exchanger**

Author(s) name: Geeta Kumari, Kumari Ambe Verma, Krishna Murari Pandey and B. R. Ramesh Babu

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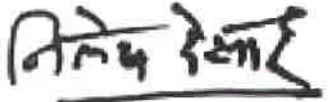
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Paper Title: Optimization of concrete mix design for thermal energy storage

Author(s) name: Bhim Choure and Nishit Bedi

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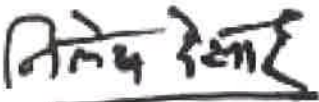
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**Paper Title: Optimization of significant parameters for ramp film cooling using CFD integrated RSM
approach**

Author(s) name: Krishna Anand

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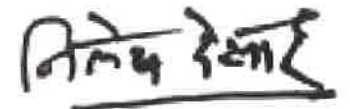
Certificate of Presentation

Paper Title: Influence of geometric configuration on the flow and heat transfer characteristics of an open microchannel thermal sinks

Author(s) name: Mohammed Anees Sheik, Abhishek Dasore, Bukke Kiran Naik and Vinit Malik

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Paper Title: A Comprehensive Study of an Ejector and its Applications: A Review

Author(s) name: Abhishek Kulkarni, Surendra Kumar Yadav and Arvind Kumar

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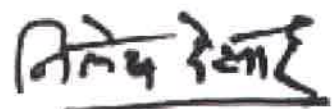
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**Paper Title: A Review on Enhancement of Thermal Capacity In Heat Exchangers with Various Nano
Fluids**

Author(s) name: Geeta Kumari, Susheel Kumar, Krishna Murari Pandey and B. R. Ramesh Babu

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Paper Title: Exploration of heat transfer for different annulus shape properties enhanced beeswax based phase change material for solar water heating system

Author(s) name: Durgesh Kumar Mishra, Sumit Bhowmik and Krishna Murari Pandey

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**Paper Title: Comparison of different machine learning methods for predictive modelling of Al₂O₃-CO₂
Nanofluid Transport Properties**

Author(s) name: Zeeshan Ahmed, Satyajee Parida, Abhishek Kumar Tripathi and V.K. Singh

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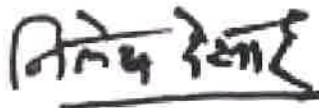
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Paper Title: Influence of drying conditions on drying kinetics and mass transfer parameters during the thin layer drying of pumpkin seeds (Cucurbita maxima)

Author(s) name: Priyanka Dhurve and Vinkel Kumar Arora

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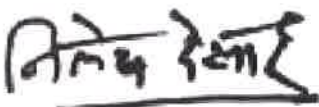
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Paper Title: Parametric investigation on the flow-field characteristics of shock generator based transverse injection scramjet combustor

Author(s) name: Pabbala Monish Yadav, Kavina Bhojani and Gautam Choubey

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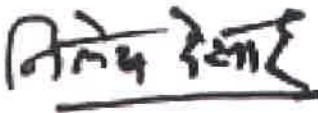
Certificate of Presentation

Paper Title: Numerical study of ramp based shock induced separation control in hypersonic flows

Author(s) name: Aniruddha Kane and Ravi Peetala

This is to certify that Dr./Mr./Ms. **Aniruddha Kane** has presented the above mentioned paper in ICFAMMT-2022 held during 20th - 22nd January at IITRAM Ahmedabad, Gujarat, India.


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