



# INDIAN INSTITUTE OF TECHNOLOGY DELHI

## DEPARTMENT OF PHYSICS

Dr. R. K. Varshney  
(Professor of Physics)

HAUZ KHAS, NEW DELHI - 110 016, INDIA  
FAX: + 91-11- 2658 1114  
PHONE: + 91-11- 2659 1357(O)  
e-mail: [ravi@physics.iitd.ac.in](mailto:ravi@physics.iitd.ac.in)  
[varshney\\_rk\\_iitd@yahoo.com](mailto:varshney_rk_iitd@yahoo.com)

**Jan 09, 2022**

### **Reference letter for Dr. T. Senthil Siva Subramanian**

It is my pleasure to express my views about Dr. T. Senthil Siva Subramanian, who was my student from Department of Electrical Engineering at IIT Delhi during his PhD course work. I was the course coordinator of ‘Optics and Lasers’ during July–Nov 2012. He has attended my course. I found him good at analytical skills and reasoning in learning the concepts of optics and laser. He demonstrated his oral articulateness in the discussion sections of various concepts of optics and lasers that were an integral part of the course. He has shown his teamwork ability during the assignments and more independent, self-learning with deep subject insights. He always participated in group discussion with confidence and shared quality inputs and ideas especially solving the problems of optics and lasers.

Dr. Senthil was interested and motivated to learn the teaching materials. He seemed to work well with other students also and I found him very personable. He is an exceptional candidate with intellectual development with excellent perseverance required to get highted grade ‘A’ in this course. I feel that he is an asset to an organization and I wish him success in his academic and research career.

With regards

(R. K. Varshney)



16/12/2021

**TO WHOMSOEVER IT MAY CONCERN**

It is my pleasure to write about Dr. Senthil Siva Subramanian whom I have known for the last five years. I had discussions with Dr. Senthil at IIT Delhi. He has shown a very clear understanding of concepts related to Physics more specifically on sensing different gases. I have found him to be extremely motivated, innovative, highly diligent, and assiduous with the work. He has a bright record as a researcher.

I found Dr. Senthil to be extremely methodical in presenting his work encompassing design methodology, analytical or simulation of a wide variety of hydrogen gas sensing methods. The research has technological values especially the hydrogen energy being the alternate fuel energy. The research is of paramount importance to several industries as well. The magnitude of the work carried out is commendable and the systematic approach followed speaks volumes about his ability to take a design from its conception to the finishing line. He has often shown an acumen for accounting for the tiniest amount of detail in any work he undertakes.

To conclude, in my opinion, Dr. Senthil is one of the sincere and hard working people I had come across and a highly qualified person to take up any new challenge.

Sincerely,

Dr. Gajendranath chowdary,

Assistant professor,

Indian Institute of Technology Hyderabad,

Kandi, Sangareddy, Telangana, India.

Email: gajendranath@iith.ac.in ; Mobile: +91-9910507389.



Electronics & ICT Academy

ict.iitk.ac.in

Ministry of Electronics & Information  
Technology  
Government of India



# C E R T I F I C A T E

---

## OF APPRECIATION

---

is awarded to

**T.SENTHIL SIVA SUBRAMANIAN**

We recognise your cooperation & sincere efforts for organising  
the first round of "Smart Hacks - 2020" at

**HINDUSTAN COLLEGE OF SCIENCE AND TECHNOLOGY, FARAH, MATHURA**

Date of Issue: 09-08-2020

System Identification No.:

22797-416690-8a0df53f42725a20

Prof. B. V. Phani

E & ICT Coordinators

Prof. Amey Karkare





Dr. P. K. Muduli  
Associate Professor

## INDIAN INSTITUTE OF TECHNOLOGY DELHI

Department of Physics  
Hauz Khas, New Delhi-110016, India  
Tel. : +91-11-2659-1377  
Email: muduli@physics.iitd.ac.in  
<http://physics.iitd.ac.in>

### Letter of Appreciation

I take this opportunity to mention about **Dr. T.Senthil Siva Subramanian** whom happened to be my scholar of Student Research Committee (SRC) during his PhD work at IIT Delhi.

First of all, let me congratulate Dr. Subramanian for his exemplary efforts and dedication in completing his Doctoral Research from IIT Delhi in spite of his regular job work. I must appreciate his commendable contribution to his research work at IIT Delhi.

I had the chance to review his PhD work starting from 2013 till 2019 nearly 6+ years every semester during the semester research presentation. I found his research work excellent, satisfactory and outstanding especially his meticulous commitment towards his research.

I must mention few summaries of his research work.

Dr. Senthil worked on plasmonic hydrogen gas sensing which happens to be one of the promising areas especially hydrogen being the national and global importance. Dr Senthil has modelled different plasmonic structures such as nano-grating, nanopillars and plasmonic waveguides for hydroge gas sensing. He explored novel plasmonic materials such as palladium, yttrium which possess high sensing property at room temperature. Further he had hands-on experience on electromagnetic simulations such as Rigorous Coupled Wave Analysis [RCWA] to simulate the nano structures. The designed sensors in his research work are promising for hydrogen gas sensing.

Dr. Senthil has carried out extensive research work with patience using numerical modelling and such novel approaches are highly valuable in scientific, engineering and technology research and he has proven good competence in scientific approach. The research has outstanding outcomes in the form of international publications and Indian patent as well.

I wish him good luck for future research career and also recommend him for any academic institutions, research laboratories and industries as well.

With Best Regards

Dr. P. K. Muduli

06-01-2022



Government of India  
Ministry of Commerce and Industry  
Department for Promotion of Industry and Internal Trade  
Office of the Controller General of Patents, Designs and Trade Marks

## CERTIFICATE

This is to certify that, **DR.T.SENTHIL SIVA SUBRAMANIAN** of **SHARDA GROUP OF INSTITUTIONS MATHURA** co-ordinated in conducting the Intellectual Property Awareness program

under

**NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION**

Azadi Ka Amrit Mahotsav  
on April 13, 2022

Organized by  
**Intellectual Property Office, India**



Date: April 18, 2022

(Prof. (Dr) Unnat P. Pandit)  
CONTROLLER GENERAL OF  
PATENTS, DESIGNS & TRADE MARKS

A handwritten signature in blue ink of Unnat P. Pandit, the Controller General of Patents, Designs &amp; Trade Marks.

**भारतीय अंतरिक्ष अनुसंधान संगठन**

अंतरिक्ष विभाग

भारत सरकार

यू. आर. राव उपग्रह केंद्र

एच. ए. एल. एयरपोर्ट रोड, बैंगलूरु- 560017, भारत

दूरभाष : +91 80 2508 4370

फैक्स : +91 80 2520 5483



**Indian Space Research Organisation**

Department of Space

Government of India

U R Rao Satellite Centre

HAL Airport Road, Bangalore- 560017, India

Telephone : +91 80 2508 4370

Fax : +91 80 2520 5483

**रवि एस./Ravi S.**

वैज्ञानिक 'डी'/ Scientist 'D'

No. ISRO:AL:01:22:2022

February 28, 2022

**Dear Dr.T.Senthil Siva Subramanian**

It gives me immense pleasure to appreciate Dr.T.Senthil Siva Subramanian from Sharda Group of Institutions, Mathura who has been connected with me for quite some time through online program.

I always amaze and have strong praise for Dr Senthil's enormous contribution to the scientific engineering research and technologies. He always proves to be a great asset for the organization. Dr Senthil has scientific and cognitive blend of mind in carrying great amount of research in diversified fields such as hydrogen gas sensing, predictive maintenance, UAV, Smart farming. He thoroughly contributed excellent innovations and technology transfer as well.

Dr Senthil has numerous patents filed, published and granted in the field of hydrogen gas sensing, electric vehicle technology, smart hand tools, healthcare also.

Dr. T. Senthil, has coordinated outstandingly as a coordinator for the online training course on "Fundamentals of Remote Sensing and GIS Technology (Course in Hindi)" organized by Indian institute of remote sensing, Indian Space Research Organization [ISRO], Department of Space, Government of India.

I wish Dr.Senthil for his successful career and strongly recommend him for any organization.

Best Wishes!!

Your Sincerely,

A handwritten signature in black ink, appearing to read "रवि एस." (Ravi S.)

रवि एस./Ravi S.  
वैज्ञानिक 'डी'/ Scientist 'D'

**To:**

**Dr.T.Senthil Siva Subramanian**



G.R. RAGHAVENDER  
Joint Secretary  
011-23072142 (Telefax)



भारत सरकार  
विधि और न्याय मंत्रालय  
न्याय विभाग  
जैसलमेर हाऊस, 26, मानसिंह रोड, नई दिल्ली-110011  
GOVERNMENT OF INDIA  
MINISTRY OF LAW & JUSTICE  
DEPARTMENT OF JUSTICE  
Jaisalmer House, 26, Mansingh Road, New Delhi-110011

Dated : 09.12.2021

Dear Dr Senthil,

It gives me great pleasure and honor to mention about your career accomplishments through your commitment mixed with patience and strong perseverance.

It started with your interactions with me sometimes way back 5 years through a program. Since then, you stayed touch and keep updating me with your progress and achievements. I still remember your invitation and you organized the event, District Science Exhibition sponsored by Council of Science & Technology, Government of Uttar Pradesh. You coordinated the event so well with great inspiration and hospitality. It's a commendable job!!

I must appreciate your initiatives to connect the school and college students on one platform to showcase their project models. Your unique initiatives are line with the vision of Government of India "Aatma Nirbhar Bharat" "Digital India". I could review the project models along with Dr.Ashwani Gupta of Department of Scientific & Industrial Research which were outstanding.

Also, you have been pioneering in your institution various national program such as startups, MSME & Industry incubation, innovation practices which proves your strength, synergy, capability and coherence with the social development especially reskill and upskill the students through national program.

Government of India has been initiating lot of Programmes for the students especially the "Atal Tinkering Lab" to instill the culture of innovation and also to provide hand-on practice for the students to develop project models.

I take this opportunity to wish you success and keep up your excellent work in times to come.

With regards,

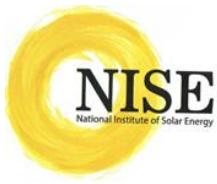
Yours sincerely,

(G. R. Raghevender)

Dr. Senthil Subramanian,  
Sharda Group of Institutions  
M-11, South Extension, Part - II, B  
ehind Deepsons, Near Flyover,  
New Delhi, Delhi 110049

तीव्र एवं गुणवत्ता से परिपूर्ण न्याय प्रदान करने वाली कुशल विधिक एवं न्यायिक प्रणाली  
कानून के शासन में लोगों का विश्वास सुदृढ़ करती है।

An efficient legal and judicial system that delivers quick and quality justice  
reinforces the confidence of the people in the rule of law.



# राष्ट्रीय सौर ऊर्जा संस्थान

(नवीन और नवीकरणीय ऊर्जा मंत्रालय, भारत सरकार का स्वायत्त संस्थान)

## National Institute of Solar Energy

(An Autonomous Institute of Ministry of New and Renewable Energy, Govt. of India)

गुरुग्राम - फरीदाबाद रोड, ग्वाल पहाड़ी, गुरुग्राम - 122 003, हरियाणा, भारत  
Gurugram-Faridabad Road, Gwal Pahari, Gurugram- 122 003, Haryana, India

Date: 25<sup>th</sup> January 2022

### TO WHOM SO EVER IT MAY CONCERN

It's my privilege and honour to express my thanks to Dr. Senthil Siva Subramanian, Head, Institute Industry Interface Program of Sharda Group of Institutions (Agra & Mathura) for inviting me to deliver the talk for the online webinar program on Solar Photovoltaic Technology in 2021 for the students and faculty members of Sharda Group of Institutions [SGI], Agra.

I appreciate Dr. Senthil's efforts in taking initiative and organizing the event focused on Solar Energy, which is extremely important for the students and faculty members. This program is in synergy with Indian Government efforts towards maximizing the renewable energy use in the country and mitigating the impact of climate change. The program creates awareness about the solar photovoltaic technology and also discuss about the various technology and research scope for the students.

Dr. Senthil has been actively promoting the renewable energy with great zeal among the students and faculty members of Sharda Group of Institutions. This program creates new avenues for the students and faculty members of SGI. The tangible outcomes will be in the form of various research activities and innovations in the area of solar photovoltaic.

I wish Dr Senthil success in all his future endeavour and such initiatives.

With Warm Regards

**Dr. Jai Prakash**

Director (Technical)

**National Institute of Solar Energy (NISE)**

(An Autonomous Institute of MNRE, Government of India)

Gwal Pahari, Gurugram-Faridabad Road

Gurugram 122003

Haryana, INDIA

Tel: +91 124 2853095

E-mail: [jaiprakash.singh@nise.res.in](mailto:jaiprakash.singh@nise.res.in)

[www.nise.res.in](http://www.nise.res.in)

# Dr. D. P. Singh

Director

B.E. (C.E.G.), Anna University.

M.E. (Gold Medalist), DCE Delhi

MBA (FMS), Delhi University

Ph.D.(Engg), I.K. Gujral Punjab Tech. Univ.

PG (Urban Planning & Development) &DCM



## Institute of Entrepreneurship Development

(Micro Small Medium Enterprises & Export Promotion, Govt. of U.P.)

Ref. No: 1602 /2021-22

Date: 03-02-2022

### TO WHOMSOEVER IT MAY CONCERN

It gives me great pleasure to mention the association of IEDUP with Dr. T.Senthil Siva Subramanian Head Institute Industry Interface [Hindustan College of Science & Technology], Mathura.

Dr Senthil has been selected as Network partner by IEDUP in 2019 for a period of 1 year. He connected based on his educational credentials and keenness to execute projects of social importance. During my interactions with him for more than 3+ years with regard to the entrepreneurship development, I found him passionate and dynamic with his profession.

Dr. Senthil has been supporting Institute of Entrepreneurship Development, MSME, Govt. of U.P. I appreciate his cooperation and gesture extended to IEDUP. I'm delighted to appreciate the remarkable contribution by Dr. Senthil who involve himself in conducting the DST sponsored faculty development program for IEDUP at Hindustan College of Science & Technology, Mathuraseveral times, despite his teaching responsibilities.

I must congratulate Dr.Senthilwho has a realistic dream and vision to excel in his professional career as a goal achiever. He has been so enthusiastic and energetic to initiate, organize several activities at Hindustan College that brought tangible benefits to different stakeholders in the socio-ecosystems.

I always have the praise for Dr. Senthil for his successful journey as acuriousacademician, entrepreneurship facilitator and vivid researcher. He has enormous commitment,exemplary achievements with zeal adding values to his education and career. He inspired many young generations and sets himself a roadmap for budding engineers.

I take this opportunity to strongly recommend his career growth in the current and any organization where he would prove to be great asset.

I wish him success in all his great attempts.

Your Sincerely,

(DR. D.P. Singh)

Director



Indian Institute of Technology Jodhpur

NH62, Nagaur Road, Karwar,

Jodhpur 342037, INDIA

Phone: (0291) 280 1378; Email: [ajayagarwal@iitj.ac.in](mailto:ajayagarwal@iitj.ac.in)

**Dr. Ajay Agarwal**  
Professor, Department of Electrical Engineering

Date: 20/08/2021

## TO WHOM IT MAY CONCERN

It is my pleasure to write about **Dr. T. Senthil Siva Subramanian** who first came in my contact in 2015, when he invited me for an Expert talk in "*National Conference on Nanodevices-2015'* at his institute, Hindustan College of Science & Technology, Mathura (Sharda Group of Institutions). He was one of the organizers of the conference. His organizational skills at the conference were impressive.

In the first meeting, he impressed me! I found him very passionate to know more about futuristic technologies like Nano-Devices and Nano-Sensors, though he was pursuing PhD research in a different area, at IIT Delhi.

Since then, Dr Senthil is in my touch and he has been regularly updating and discussing his research activities. He has a pleasant personality; student friendly attitude and he is a good human being. I wish him very best for all his future endeavors in academics and research.

  
**Ajay Agarwal**



MHRD'S  
**INNOVATION CELL**  
(GOVERNMENT OF INDIA)



# Certificate of Membership

We appreciate the contribution of

**T Senthil Siva Subramanian, President**

of Institution's Innovation Council established under the aegis of MHRD's Innovation Cell at

HINDUSTASN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH for

the academic year 2018-19 .

*Abhay Jere*

Dr. Abhay Jere  
Chief Innovation Officer  
MHRD's Innovation Cell

*Dipan Sahu*

Mr. Dipan Sahu  
National Coordinator  
MHRD's Innovation Cell

*Ankush*

Mr. Ankush Sharma  
Zonal Coordinator  
MHRD's Innovation Cell





Lr No. 03/MGNCRE/DHE/MoE/Goi/NEM/REDC /18 -11-2020

**TO WHOMSOEVER IT MAY CONCERN**

I have the great privilege to write few lines of appreciation about the contributions made by Dr. T. Senthil Siva Subramanian who is currently working as Head Institute Industry Interface at Sharda Group of Institutions, Mathura

He has been associated with our organization through collaborations in the area of social and rural entrepreneurship. He has been playing an important role to connect both the institutions through signing memorandum of understanding between the two organizations. I'm delighted to mention that with the efforts and initiatives of Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India, he has taken several steps to include Hindustan College, Mathura as a member of National Rural Entrepreneurship Mission with the mission of inculcating entrepreneurship among students. He has also taken initiative to establish Swachta and Rural Engagement Cell (SEC REC) at Hindustan College, Mathura. I appreciate his coordination and cooperation in bringing the two institutions on one platform that will bridge the gap between Government, Academia and Industry. This will open new avenues to upgrade the entrepreneurship skills of students and faculty members. I recognize his ability, contribution and initiatives to promote the entrepreneurship education and activities in the institutions. I learnt that he has been involving in various entrepreneurship development activities, incubation and skill development program in the organization. I strongly believe that this interdisciplinary approach will add values to the nation building exercises. He has been pioneering in various government initiatives in field of entrepreneurship.

I strongly give my references for his roles and responsibilities and he will prove his competency for the organization.

**Prof. Chethan Chittalkar**  
**Director In Charge**

**Mahatma Gandhi National Council of Rural Education (MGNCRE)**  
**Department of Higher Education, Ministry of Education, Government of India**  
**Mob: 9052907212**





**महात्मा गांधी राष्ट्रीय ग्रामीण शिक्षा परिषद**  
**MAHATMA GANDHI NATIONAL COUNCIL OF RURAL EDUCATION**  
(Formerly National Council of Rural Institutes)

Department of Higher Education, Ministry of Human Resource Development, GoI  
#5-10-174, Shakar Bhavan, Ground Floor, Fateh Maidan Road, Basheerbagh  
Hyderabad – 500 004. India, Ph: 040 – 2321 2120, 2342 2105, Fax: 040 – 2321 2114



Jul 16, 2021

## CERTIFICATE

*This is to certify that Dr. T. Senthil Siva Subramanian, Hindustan College of Science & Technology, Mathura is now member of National Rural Entrepreneurship Mission and recognized for Social Entrepreneurship, Swachh Bharat Mission, & establishing Rural Engagement Cell (SES REC) and Government of India incubation centre in the organization. Dr. Senthil has successfully framed the SES REC Action Plan and constituted ten working groups for improving facilities in the rural and the Community/Adopted Villages through Unnat Bharat Abhiyan project in the areas of Sanitation & Hygiene, Waste Management, Water Management, Energy Conservation and Greenery post COVID-19, along with successfully implementing women entrepreneurship, digital literacy and community engagement, capacity building related activities to inculcate in farmers, artisans and community, the practices of mentoring, Social responsibility, Swachhta and care for Environment and Resources.*

**Dr. Chethan Babu Chittalkar**  
Director, Rural Management Program  
MGNCRE, MoE, Government of India

**Dr. WGK Prasanna Kumar**  
Chairman, MGNCRE, MoE  
Government of India

भारत सरकार

नवीन और नवीकरणीय ऊर्जा मंत्रालय

Government of India

**MINISTRY OF NEW AND RENEWABLE ENERGY**

ब्लॉक नं. 14, केन्द्रीय कार्यालय परिसर, लोदी रोड़, नई दिल्ली-110003  
BLOCK NO. 14, C.G.O. COMPLEX, LODI ROAD, NEW DELHI - 110 003

Fax : 011-24361298

Telegram : RENEWABLE

सं.

No. P/022-12/K&D

दिनांक

Dated 26<sup>th</sup> Nov, 2021.....

To

Dr. T. Senthil Siva Subramanian

Sharda Group of Institutions (Agra & Mathura)

Greetings!!

I'm so delighted to mention about Dr. Senthil who has been in association with me for more than 5 years since he was Doctoral Student at IIT Delhi.

He has been an active, dynamic researcher and strong academician with great commitment. I have the pleasure of working collaboratively with Dr. Senthil as a collaborative innovator. In fact, we jointly explored various areas of innovation such as green hydrogen and intelligent vehicles which led to filing Indian Patent in the domain of Hydrogen gas sensor and Unmanned Aerial Vehicles which are disruptive technologies and emerging areas. I'm sure that these product innovations have great market potential.

I truly appreciate his tireless effort and remarkable contribution towards innovation and research, development of products.

I take this opportunity to congratulate his achievements and Wish him great success in his career.

With Best Regards

(Arun Kumar Choudhary)

Scientist

Tel No. 011-24360707 Extn. 1020

Email: akchoudhary.mnre@gov.in



**MSME-TECHNOLOGY DEVELOPMENT CENTRE, AGRA**

एमोएसोएमोई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises

सूक्ष्म, लघु एवं मध्यम उदायम मंत्रालय

Government of India Organization

भारत सरकार की संस्था



**प्रमाण पत्र**

## **Certificate of Appreciation**

*This certificate is awarded*

*to*

**MR. T.SENTHIL SIVA SUBRAMANIAN**

Asst.Prof. (Electronics & Instrumentation)  
Hindustan College of Science & Technology, Mathura

*in recognition of his valuable contribution,*

*Initiative & support in signing MoU*

*between MSME-TDC & HCST*

*on 4<sup>th</sup> of November, 2015*

*at HCST, Agra*



DATE : November 6, 2015  
PLACE : AGRA

No. PPDC/Trg./IHP/2015-16/7585

**R.PANNERSELVAM**  
PRINCIPAL DIRECTOR



# उद्यमिता विकास संस्थान, उ.प्र., लखनऊ

(सूक्ष्म, लघु मध्यम उद्यम एवं निर्यात प्रोत्साहन विभाग, उ.प्र. शासन)

Institute of Entrepreneurship Development U.P., Lucknow

(MSME & Export Promotion, Govt. of U.P.)

ए-१ व २, औद्योगिक क्षेत्र, सरोजनी नगर, कानपुर रोड, लखनऊ-226008

दूरभाष: 0522-2476012, फैक्स: 0522-2476055

E-mail: director.ied@gmail.com

website: [www.iedup.in](http://www.iedup.in)

Registration No.

१७९  
२६०

/IEDUP-2020-21

Dated: 09.12.2020

To,

Mr. T.S.S. Subramanian,  
Regd. Add. & Communication Add. : 23, Pratkisha Enclave,  
100 Feet Road, Dayalbagh,  
Agra -282005 (U.P.).

Sir,

With reference to your application dated 21.11.2020 you have been registered as Network Partner for extension and execution of activities in the following areas:

- (1) Research Studies
  - (2) Impact Assessment
  - (3) Monitoring & Evaluation
  - (4) Skill Development Training
  - (5) Entrepreneurship Development Training
2. This registration does not entitle you to claim any kind of business from IEDUP during the period of registration.
3. This registration is valid for one year from the date of issue of this certificate and will automatically expire after a period of one year.
4. IEDUP has the sole and absolute discretion to cancel this registration whenever required, particularly in the event of any complaint adversely affecting the repute and interest of IEDUP.
5. For execution of each assignment/activity brought you in the name of IEDUP, terms & conditions and financial pattern shall be decided separately depending upon the nature of activity.

For Institute of Entrepreneurship Development, U.P

Nodal Officer



भारत सरकार  
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय  
एम.एस.एम.ई – विकास संस्थान  
34, औद्योगिक आस्थान, नुनिहाई,  
आगरा-282006



Govt. of India  
Ministry of Micro, Small & Medium Enterprises  
**MSME – Development Institute**  
34, Industrial Estate, Nunhai,  
AGRA - 282006

Phone: 0562-2280879

Tel. Fax: 0562-2280882

Email: mukesh@dcmsme.gov.in

website: www.msmediagra.gov.in

No. DI/AGR/IMC-MS/2019-20/

Dated : 23/11/2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Dr. T. Senthil Siva Subramanian Head Institute Industry Interface Program Sharda Group of Institutions is recognized as Guest Faculty by DC(MSME), Ministry of Micro, Small & Medium Enterprises, Government of India under Entrepreneurship Skill Development Programme (ESDP).

MSME-DI, Agra thanks and appreciates Dr. T. Senthil for delivering the invited talk on entrepreneurship, startups, innovation in the various motivational programmes organised by MSME-DI, Agra. The contents of the presentation / talks delivered by Mr. Senthil are well designed and structured that enlightened and motivated the students / prospective entrepreneurs. This Institute realise the paramount importance of the entrepreneurship topics covered by him in the presentation for the students / prospective entrepreneurs.

MSME-DI, Agra recognizes his support and cooperation and wish to enroll him for invited talks in the future program.

To

Dr. T Senthil Siva Subramanian  
Head – Institute Industry Interface  
Sharda Group of Institution  
Mathura (U.P.)

③  
23-11-2020

(डॉ. मुकेश शर्मा, भा.आ.से.)  
(Dr. Mukesh Sharma, IES)  
शर्दा विद्यालय एवं विभागीय अधिकारी  
भारत सरकार/Govt. of India  
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय  
Ministry of Micro, Small & Medium Enterprises  
एम.एस.एम.ई-विकास संस्थान, आगरा  
MSME-Development Institute, Agra



**MSME-TECHNOLOGY DEVELOPMENT CENTRE  
(PROCESS & PRODUCT DEVELOPMENT CENTRE, AGRA)**  
Govt. of India Organization  
Ministry of Micro, Small & Medium Enterprises



No.PPDC/Admn./AIC/2015-16/ 3137

Aug. 13, 2016

Shri T. Senthil Siva Subramanian  
Asstt. Professor  
Dept. Of Electronics & Instrumentation Engg.  
Hindustan College of Science & Technology  
Mathura.

**Sub: Constitution of Industry Consultative Committee – reg.**

Dear Sir,

The Principal Director is pleased to nominate you to serve as a member in the above Consultative Committee. The meeting will be held on quarterly basis. The purpose of Industry Consultative Committee is to improve service delivery of the organization and implementing effective feedback mechanism efficient support services to MSME Sectors.

You are requested to kindly acknowledge your acceptance.

Yours faithfully

( A.K. SINGH )  
DY. DIRECTOR



**Dr. K. Mohanraj**  
**Assistant Professor**



**TO WHOMSOEVER IT MAY CONCERN**

With immense pleasure I'm delighted to share great insights about Dr.Senthil Siva Subramanian Heading Institute Industry Interface at Sharda Group of Institutions Mathura. It was more than 2 years Dr. Senthil has been associated with me as research collaborator especially in the field of thin film technology leading to potential applications of Sokar cells. He has been interacting and suggested research inputs that lead to the development of cost-effective products which found enormous research potential. In fact, we collaboratively explored novel nanomaterials for scientific research.

I found his active research expertise and cooperation. We have to initiate the collaborative research on Green Energy Hydrogen where Dr.Senthil Siva Subramanian has hands on experience especially his Doctoral research.

He was involved in the International Conference on Advances in Materials Science organized by Department of Physics, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu as Scientific Advisory board member. I have the great privilege to recommend Dr. Senthil Siva Subramanian to premier research organizations, Universities and Industries to be as research collaborator.

Best Wishes

Dr. K. MOHANRAJ, Ph.D.,  
Assistant Professor,  
Department of Physics,  
Manonmaniam Sundaranar University,  
Abishekappatti, Tirunelveli - 627012.  
Cell: 97880 83079  
Email: mohanraj@msuniv.ac.in

January 14, 2010

**CERTIFICATE**

This is to certify that Mr. T. Senthil Siva Subramanian from Hindustan College of Science & Technology, Farah, Mathura participated as delegate in the Solar Energy Conclave 2010, inaugurated by Dr. Manmohan Singh, Hon'ble Prime Minister of India & launch of the Jawahar Lal Nehru National Solar Mission, organized by the Ministry of New & Renewable Energy (MNRE), Government of India & Federation of Indian Chambers of Commerce and Industry (FICCI), held on January 11, 2010 at Vigyan Bhawan, Maulana Azad Road, New Delhi.

(Vivek Pandit)

# NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4<sup>th</sup> Floor, Bhisham Pitamah Marg,  
Pragati Vihar, New Delhi-110 003  
Tel: +91 11 2436 0620-22, 2436 0654 ; Telefax: +91 11 4308 4903  
Website: [www.nbaind.org](http://www.nbaind.org)



## Letter of Recommendation

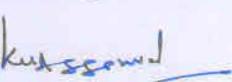
It gives me immense pleasure to write few lines of appreciation and recommendation about Dr.T.Senthil Siva Subramanian, Head Institute Industry Interface Program, Sharda Group of Institutions, Mathura

I have known Dr.Senthil for more than 3 years. He is a good mix of academic and research strengths and is an entrepreneurship facilitator as well. He is associated with IIT, Delhi for his research work, which gives him good exposure and research capabilities.

He has been involved in various research programs of national importance at IIT, Delhi and IIT, Kanpur. He has coordinated and organized various educational and academic programs, especially in the establishment of Virtual Labs. He has developed expertise in Industry 4.0 and has handholding experience with industrial organisations.

I'm delighted to appreciate his commendable and outstanding contribution towards academics and research in his career benefiting various stakeholders of the society.

I strongly recommend the candidature of Dr.Senthil for any academic and research opportunity in his future endeavours.

  
( Prof K K Aggarwal )  
Chairman, NBA  
July 29, 2021