



NANDHA ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

ERODE – 638 052 TAMILNADU

Email : principal@nandhaengg.org Mobile : 73737 12234

Criterion 3 – Research, Innovations and Extension

3.2

Resource Mobilization for Research

3.2.1 Details of grants received from Government and Non-governmental agencies for research projects, endowments, Chairs in the institution during the year (INR in lakhs),

**E-copies of Grant award Letters
for Research**



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Email : principal@nandhaengg.org Mobile : 73737 12234

List of Grant received during Academic Year (2022-23)

S.No.	Name of the Principal Investigator/ Co-Investigator (if applicable)	Department of the Principal Investigator/ Co-Investigator	Name of the Funding Agency	Funds provided (INR in lakhs)
1.	Mr.A.Vishnu	Mech	MSME	14
2.	Mr.M.Muthukumar	Mech	MSME	15
3.	Dr C.N.Marimuthu	ECE	IEI	0.05
4.	P Krishnagandhi	EEE	IEEE Computer Society	0.82
5.	Dr.T.Jayakumar	EEE	CSIR	0.2
6.	Mr.M.Prabu	EEE	TNSCST	0.075
7.	Dr.E.K. Vellingiriraj	MCA	TNSCST	0.075




PRINCIPAL,
NANDHA ENGINEERING COLLEGE
(AUTONOMOUS)
ERODE - 638 052.

विकास आयुक्त का कार्यालय
(सूक्ष्म, लघु एवं मध्यम उद्यम)
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
(भारत सरकार)

निर्माण भवन, सातवीं मंजिल, मौलाना आजाद रोड,
नई दिल्ली-110 108



OFFICE OF THE DEVELOPMENT COMMISSIONER
(MICRO, SMALL & MEDIUM ENTERPRISES)
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
GOVERNMENT OF INDIA

Nirman Bhawan, 7th Floor, Maulana Azad Road,
New Delhi-110 108

Ph. EPAX-23063800, 23063802, 23063803, 23063804, 23063805 & 23063806

By- email

F.No. 6(19)/SanctiontoCNA/Incubation /2022-23

Dated: 08/08/2023

To,
The Accounts Officer,
Pay & Accounts Office,
Micro, Small & Medium Enterprises,
New Delhi.

SANCTION ORDER

Subject: Sanction of payment of Rs. 22,73,09,000/- (Rupees Twenty Two Crore Seventy Three Lakh Nine Thousand Only) to CENTRAL TOOL ROOM AND TRAINING CENTRE (CTTC), Bhubaneswar, ODISHA (as CNA) towards implementation of Incubation Component of MSME Innovative Scheme for FY 2023-24:reg.

I am directed to convey the sanction of the President of India for grant-in-aid of release of Rs. 22,73,09,000/- (Rupees Twenty Two Crore Seventy Three Lakh Nine Thousand Only) under Grant-in-aid General for implementation of Incubation Component of MSME Innovative Scheme, a component of MSME Champions Scheme to Central Tool Room and Training Centre (CTTC), Bhubaneswar, Odisha as Central Nodal Agency (CNA) w.r.t. approval in 4th PMAC held on dt. 26.06.2023 for the FY 2023-24. The details are as under:

(Rs. in lakh)

S. No	BE of MSME Champions Scheme 2022-23	Amount approved in 4 th PMAC	Amount Concurred by IFW	1 st release as per Scheme Guidelines 70% of amount approved
1	5272.00	3247.2720	2273.090	2273.090

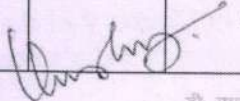
2. The details of ideas and the respective amount approved in 4th PMAC towards release of 70% of the amount as 1st installment as per scheme guidelines are provided in **Annexure-A**.

3. Roles and Responsibilities of CNA:

Central Tool Room And Training Centre (CTTC), Bhubaneswar, Odisha shall release the amount to the respective Host Institutes (HIs) as per the **Annexure-A** after submission/upload of all requisite documents on MIS portal by the HIs concerned as per the scheme guidelines. The Grant-in-Aid will be regulated in accordance with the OM of Dept. of Expenditure, Ministry of Finance vide No. 1(18)/PFMS/FCD/2021 dated 9th March, 2022 (copy attached) regarding revised procedure for flow of funds under Central Sector Schemes and provisions contained in the Incubation Component of MSME Innovative Scheme. CTTC, Bhubaneswar, Odisha has been nominated as CNA vide letter No. 41(1)/Budget/MSME Champions/2021 dated 27.06.2022 for Incubation Component of MSME Innovative Scheme of MSME Champions Scheme (copy of the order enclosed for reference). CTTC, Bhubaneswar shall strictly follow the roles and responsibility as mentioned in the aforesaid O.M. The funds released are also subject to the provisions contained in Chapter 9 of the General Financial Rules, 2005, as amended from time to time, read with the Government of India's decisions incorporated there-

वी. रामकृष्णन / V. RAMAKRISHNAN
उप निदेशक / Dy. Director
भारत सरकार / Govt. of India
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small & Medium Enterprises
विकास आयुक्त (सू. ल. एवं म. उद्यम) का कार्यालय
Office of the Dev. Commr. (MSME)
निर्माण भवन, नई दिल्ली-110108/Nirman Bhawan, New Delhi-110108

	nt And Technolog y				system using solar				
13	NANDHA ENGINEERI NG COLLEGE	TAMIL NADU	VISHNU ANBALAG AN	Others	Yield Enhancement for paddy field using Supervisory Control and Data Acquisition system with Machine Learning Technique	14.000	11.900	2.100	8.330
14	KAMARAJ COLLEGE OF ENGINEERI NG AND TECHNOLO GY	TAMIL NADU	Baskarap andi Pandiyara jan	Student	Design and Fabrication of Pesticide Spraying and Seed Sowing Robot	9.000	9.000	0.000	6.300
15	BHAGWAN MAHAVIR COLLEGE OF ENGINEERI NG & TECHNOLO GY	GUJARA T	Patel Dhruvku mar	Others	AI (Artificial Intelligence) based Agriculture Farming System	12.810	10.889	1.922	7.622
16	Mahendra Engineerin g College	TAMIL NADU	JEEVA V	Student	Automated Seed Sowing Machine using Internet of Things	14.000	14.000	0.000	9.800
17	K.S.RANGA SAMY COLLEGE OF TECHNOLO GY	TAMIL NADU	Muthuku mar Subrama niyan	Student	SMART LIVESTOCK MANAGEMENT FOR FARMERS USING DIGITAL TECHNOLOGY.	5.000	5.000	0.000	3.500
18	Governme nt Engineerin g College Thrissur	KERALA	AJITH P	Student	PHOENIX - DRONE BASED SOLUTION FOR HUMAN- WILDLIFE CONFLICT	6.500	6.500	0.000	4.550
19	Rajalakshm i Engineerin g College	TAMIL NADU	Priya L	Others	Timely Detection of Stem Borer Pest Infestation using Aerial Imagery for Smarter Rice	9.000	7.650	1.350	5.355



श्री. रामकृष्णन / V. RAMAKRISHNAN
 उप निदेशक / Dy. Director
 भारत सरकार / Govt. of India
 सूक्ष्म, सशुद्ध एवं मध्यम उद्योग विभाग
 Ministry of Micro, Small & Medium Enterprises
 भारत सरकार (ए. ई. ए. ए. अणु) का कार्यालय
 Office of the Dy. Director, (MEME)
 विमान, गेट, १६ (विमान-१) रोड / Nizam Garden, New Delhi-110108

170	KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY	TAMIL NADU	PRAVIN M	Student	DEVELOPMENT OF HARDWARE INTERFACE TO GENERATE ELECTRIC POWER FROM PARKED ELECTRIC VEHICLES	11.750	11.750	0.000	8.225
171	Amrita Vishwa Vidyapeetham	TAMIL NADU	Shairagul Gautam	Student	aqueous battery	15.000	15.000	0.000	10.500
172	NANDHA ENGINEERING COLLEGE	TAMIL NADU	Muthukumar Marappan	Others	Artificial Intelligence based Fuel cell powered Electric vehicle with high performance, on-board charging and zero emissions for eco-friendly environment	15.000	12.750	2.250	8.925
173	INDIAN INSTITUTE OF INFORMATION TECHNOLOGY AND MANAGEMENT KERALA	KERALA	Prince Manu Baby	Others	Aluminum Air Battery-Hydrogen Fuel cell Hybrid system for EVs	15.000	12.750	2.250	8.925
174	Jerusalem College of Engineering	TAMIL NADU	Senthilnathan K	Entrepreneurs/MSME	Intelligent Battery Management System (iBMS)	15.000	12.750	2.250	8.925
175	Sreenidhi Institute of Science and Technology	TELANGANA	Hemang Shah	Entrepreneurs/MSME	EAR (Economical, Affordable, Reliable) Electric Passenger Cars	15.000	12.750	2.250	8.925
176	KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY	TAMIL NADU	SHALINI D	Student	DEVELOPMENT OF ECO-FRIENDLY BATTERY BALANCING KIT FOR ELECTRIC VEHICLE	10.500	10.500	0.000	7.350

श्री रामकृष्ण / V. RAMAKRISHNAN
 ज्य. निदेशक / Dy. Director
 भारत सरकार / Govt. of India
 सूक्ष्म, लघु एवं मध्यम उद्यम संस्थान
 Ministry of Micro, Small & Medium Enterprises
 निवेश विभाग (ए. ए. ए. व. व.) का कार्यालय
 Office of the Exec. Commr. (MSME)
 प्लॉट नं. 44, फ्लो-110/106 / नामा संख्या, न्यू टॉक-110002



The Institution of Engineers (India)

(Established 1920, Incorporated by Royal Charter 1935)

ERODE LOCAL CENTRE



Sri Ramakrishna Seva Samithi Religious Library, Thindal Murugan Temple Premises,
Thindal, Erode - 638 012, Tamil Nadu, www.ieierode.org, erodelc@ieindia.org, ieierode2015@gmail.com

Dr. R. NALLUSAMY FIE

Chairman

98655 39172, nallsam@rediffmail.com

Dr. R. KUMARAVELAN FIE

Honorary Secretary

94435 63481, rkumaravelan@gmail.com

Ref. : IEI-ELC / SG/2022-2023/ 32

Date : 17.05.2023

To

The Principal,
Nandha Engineering College,
Erode.

Dear Sir,

Sub : Grant for the conduct of various Technical events by your Institution – Reg.

Ref. : Your Letter No. NEC/ IEI / GRNT /01/ 2022-2023 Dated 17.05.2023

Warm Greetings from the Institution of Engineers (India) Erode Local Centre.

As a part of services to the Engineering society, IEI-ELC is conducting various activities to the Corporate Members, Faculty Members, Practicing Engineers and Students of Engineering and Polytechnic Colleges.

To encourage and appreciate the contribution of your institution for conducting the activities during the year 2022-2023, the committee is recommending to release a grant of Rs. 5000/- (Rupees Five thousands only) vide Cheque No. 559824 Dated 17.05.2023 Canara Bank, Chithode, Erode .

It is requested to acknowledge the same and support the activities for the growth of IEI-ELC.

Thanking you,

With Regards,

Hon. Secretary

Honorary Secretary

The Institution of Engineers (India)
Erode Local Centre. ERODF

Encl : Cheque No. 559824 Dated 17.05.2023 Canara Bank, Chithode, Erode



IE(I) HEADQUARTERS

8, Gokhale Road, Kolkata - 700 020, +91-33-2223 8311/14/15/16/34 Fax : +91- 33 - 2223 8345 www.ieindia.org

Pay The Principal, Nandha Engineering College

या धारक को Or Bearer

Rupees रूपये Five thousands only

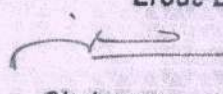
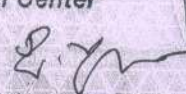
अदा करें

₹

5,000/-

खा सं. A/c. No. 65362200001394

The Institution of Engineers (India)
Erode Local Center

Chairman

Hon. Secretary

"Payable at par at all our branches in India"

THE INSTITUTION OF ENGINEERS INDIA / NALLUSAMY K. KUMARAVELAN RADHAKRISHNAN

Please sign above

⑈559824⑈ 638015051⑈ 000584⑈ 31

NANDHA ENGINEERING COLLEGE

Erode - 638 052.

PAYMENT VOUCHER

No. :

Date : 05.08.2023

Debit Resource Person - Expenses

Rupees Five thousand rupees only

on account of one day workshop on Advances in Robotics

Paid to Ms. Sowmiya.S, CEO & Founder, Seventh Sense

School of Robotics Received the above sum,

Rs. 5,000/-

Cashier

 5.8.23
Signature

G.NO. 8)



Brookes Little <eblittle@computer.org>
to me, Nita, Jyotika, Eric ▾

Thu, Feb 16, 12:18 AM



Dear Krishnagandhi,

This message is sent to you on behalf of Nita Patel, IEEE Computer Society President, and Jyotika Athavale, IEEE Computer Society President-Elect.

Thank you for participating in the pitch session during the IEEE Computer Society Board of Governors meeting. Unfortunately, we are unable to fund all of the projects and yours was not selected for full funding. However, the board valued the well thought out program defined in your proposal and would like to award \$1,000 to your affiliated IEEE Computer Society Chapter help fund activities towards your goals. The Director of Membership, Eric Berkowitz, who is copied on this message, will be able to work with you to transfer the funds to your local IEEE Computer Society Chapter. Please let us know which chapter you would like the funding to go to.

Thank you for submitting your excellent proposal.

Sincerely yours,

Brookes

E. Brookes Little, CAE, CMP
Associate Program Director, Technical Activities & Governance
IEEE Computer Society
10662 Los Vaqueros Circle
Los Alamitos, CA 90720
direct: +1.714.816.2124
mobile: +1.714.822.7926
eblittle@computer.org
<http://www.computer.org>

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ting your excellent proposal.

E, CMP
Director, Technical Activities & Governance
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679
EEE / CSIR / Grant / sanction.

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Human Resource Development Group

CSIR Complex, Library Avenue, Pusa, New Delhi 110 012

Tel.: 011 2584 1037

Email: symposia.travel@gmail.com, web <http://csirhrdg.res.in>

Dhirendra Bansal
Senior Principal Scientist

Ref No. SYM/12064/23-HRD

April 06, 2023

Dr T Jayakumar

Associate Professor

Dept. of EEE

Nandha Engineering College, Perundurai, Erode District, TamilNadu 638 052

SUBJECT: Research Perspectives on New Materials for Next Generating of LI-ION Batteries for Extreme Fast Charging Electric Vehicle Applications during May 11-11, 2023 at Nandha Engineering College, Erode

Dear Dr Jayakumar

With reference to your application on the above subject, we are happy to inform you that Director General, CSIR has been pleased to sanction a grant of **Rs.20000/-** (Rupees Twenty Thousand Only) subject to the following conditions:

1. The grant received from CSIR should be duly acknowledged by email along with a certificate that the grant would be specifically utilized for the purpose for which it has been sanctioned.
2. The grant may be reimbursed within four months from the date of Conference/Seminar/Workshop etc. is over by filling-in the Grant-in-Aid Bill Form in duplicate duly signed and rubber stamped by the concerned officials, indicating clearly the designation of the official along with Audited Statement of Expenditure for release of grant. Current Proforma for Grant-in-aid bill, Audited Statement of Expenditure and NEFT are available on our website <http://csirhrdg.res.in/Home/Index/1/InPage/53/14>. If any Utilization Certificates of Previous Grant for symposia (as per Col.No. 15 of the Application Performa) is not submitted till date, please attach copies of Utilization Certificates also. Any claim received beyond 4 months will be entertained only in exceptional cases subject to submission of reasons for delay, duly forwarded through Head of the Organization. In no case, the claim will be entertained after 6 months. All the pages of above documents should be self attested by the organizer.
3. Invitation cards should be sent to the Director General, CSIR and Head, HRDG. CSIR may nominate three scientists for the above event and registration fee should not be charged from them. In case of nomination, the Head, HRDG or the undersigned would issue a letter with a copy to the nominee(s).
4. Softcopy (preferably in Pen Drive/CD/ DVD in PDF format) of the full paper proceedings of above event should be sent to the undersigned.
5. An overall activity report by the Convener / Organizing Secretary should be made available to us with regard to outcome of the gathering, the recommendations and plan of action for future. The names, addresses & email IDs of the participants / delegates should also be sent immediately after the event.

Yours sincerely,

(Dhirendra Bansal)

Copy to: Audit (EMR) HRDG



COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH
HUMAN RESOURCE DEVELOPMENT GROUP
CSIR COMPLEX, OPP INSTITUTE OF HOTEL MANAGEMENT
LIBRARY AVENUE, PUSA, NEW DELHI- 110012, INDIA
Email: tgsms[at]csirhrdg[dot]res[dot]in
Phone:0112584107

Symposia Grant Scheme for Organising Scientific Events (Symposia/
Seminars / Conferences/ workshops, etc. within India

AUDITED STATEMENT OF EXPENDITURE To be filled by the applicant in duplicate

Date: 27-06-2023

Reference: CSIR Sanction No: SYM/12064/23-HRD April 06, 2023

1. Name of the Society / Organisation under whose auspices the Event was organized:
NANDHA ENGINEERING COLLEGE

2. Title/Name of the Event:
RESEARCH PERSPECTIVES ON NEW MATERIALS FOR NEXT GENERATION OF LI-ION
BATTERIES FOR EXTREME FAST CHARGING ELECTRIC VEHICLE APPLICATIONS

3. Period:

From			To		
Date	Month	Year	Date	Month	Year
11	05	2023	11	05	2023

4. Grant Sanctioned: Rs. 20000 (Rupees Twenty Thousand Only)

5. Certified that out of Total Expenditure of Rs. 24000 (Rupees Twenty Four Thousand Only)
CSIR Grant of Rs. 20000 (Rupees Twenty Thousand Only)
has been utilized as per the details given below:

S. No.	Budget Head	Amount (Rs)
i	Travel expenses for c. Senior scientists: 02 d. Young Scientists:	15575
ii	Registration Fee Waiver c. Senior scientists: d. Young Scientists:	-
iii	Promotion (web site, brochures, others)	6421
iv	Secretarial assistance	2004
v	Local Hospitality	-
vi	Venue Charges	-
	TOTAL	24000

Certified by: (PL ENSURE ALL SIGNATURES ARE ON THIS PAGE ONLY)

Organizer:

Finance Officer

Head of Organisation

Signature

Name: Dr.T.Jayakumar

Designation: AsP/EEE

Mob No. +91 97884 42488 Mob No.

Email ID jaineeeee@gmail.com Email ID

Seal / Stamp

Signature

Name: Mr.A.Siva Prakasam

Mob No. +91 98427 43555 Mob No.

Email ID efo@nandhainstitutions.org Email ID

Seal / Stamp

Signature

Name Dr.N.Rengarajan

Designation Principal

Mob No. +91 73737 12234

Email ID principal@nandhaengg.org

Seal / Stamp

Dr.T.JAYAKUMAR, M.E., Ph.D.,
Associate Professor
Department of EEE
Nandha Engineering College (Autonomous)
Porundural, Erode - 638 052.

A. SIVAPRAKASAM
Chief Finance Officer
Nandha Educational Institutions
ERODE - 638052

PRINCIPAL
Nandha Engineering College
(Autonomous)
Erode - 638 052.



தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்
TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

(Established by Government of Tamilnadu)
Directorate of Technical Education Campus, Chennai – 600 025.
Ph : 044-22301428, www.tanscst.nic.in

Dr.R.SRINIVASAN, M.Sc., Ph.D.,F.I.C.S., M.A.C.S.(USA).,
Member Secretary

Lr.No.TNSCST/SPS/BS/2022-2023

03.03.2023

To
The Principal
Nandha Engineering College,
Erode - 638 052

Sir/Madam,

Sub: TNSCST – Student Project Scheme – 2022-2023 – approval intimation–grant release- reg.

With respect to the above scheme, the list of projects approved by the State Council is enclosed along with terms and conditions. You are requested to adhere to terms and conditions such as submission of UC and Seminar Paper on Time.

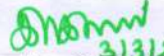
1.	Dr.E.K.Vellingiraj, Professor and Head, Department of MCA, Nandha Engineering College, Erode - 638 052	Tamil speech interactive public transport ticket reservation system for visually imparied people	V.Divya, M.Sneka, K.Swathi, K.Varshini	CSE-1015	The Principal	Rs 7500/-
2.	M.Prabu M.E., Associate Professor, Department of EEE, Nandha Engineering College, Erode – 638 052	Design and development of wireless charging technology for hybrid wireless sensor networks of solar energy harvesting	Gunasekaran S, Gowtham.M, Gokulraj S, Karthikeyan A	EEE-1233	The Principal	Rs 7500/-
Total						Rs 15000/-

Herewith enclosed the cheque for the approved grant and disburse the grant to the concerned students through the guides at the earliest

Kindly send the utilisation certificate (format enclosed) and seminar paper (Ref.T&C) on completion of the project.

Thanking you,

Yours faithfully,


313123
Member Secretary.

Encl: a) Terms & Conditions (T&C)
b) Format of Utilisation Certificate (UC)
c) Cheque for Rs.15000/- Cheque No:574917 dt.03.03.2023

Copy to: Individual Guides

(i) Dean R&D
(ii) IQAE
(iii) HODS of MCA & EEE
(iv) Grants - file

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