



भारत सरकार
Government of India
इलेक्ट्रॉनिक्स और सूचना प्रौद्योगिकी मंत्रालय
Ministry of Electronics & Information Technology
इलेक्ट्रॉनिक्स निकेतन / Electronics Niketan
6, सी जी ओ कॉम्प्लेक्स / 6, C G O Complex
नई दिल्ली-110003 / New Delhi-110003
Website: www.meity.gov.in

Dr. Sandip Chatterjee
Director/ Scientist 'F'
Phone: 91-11-24363094
Email: sandip@meity.gov.in

दूरभाष / Tele:

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D.O.No.GG-11/10/2020-R&D-E



दिनांक / Dated.....

13th August 2021

Subject: Grand Challenge for design & development for Mobile accessories products based on Li-ion Cells- seeking participation regd.

Sir,

Ministry of Electronics and Information Technology (MeitY), Government of India has established a Centre of Excellence (CoE) for Products Based on Li-ion Cells (Post-Cell) along with Government of Uttar Pradesh at CDAC Noida in association with India Cellular & Electronics Association (ICEA) for promoting design and development of products used as Mobile handset accessories and other electronic applications. The CoE will serve as one-stop facility/centre for R&D, design & development of products based on Li-ion Cells (Post-Cell).

2. Innovation and R&D in electronics design aspires the youth of the country to develop affordable indigenous solutions for mobile handset accessories sector. Aiming to capture these innovative minds, a Grand Challenge is being organized under the CoE to energize the youths and foster targeted research among the entrepreneurs, faculty, students, researchers, and other innovators to develop innovative solutions that shall promote electronic manufacturing in India and take a step forward towards "AatmaNirbhar Bharat".

3. Under this Grand Challenge, CDAC Noida is inviting proposals for seven products namely, Power Bank, Charger, Bluetooth Speaker, Wireless Charger, Smart Light system, Digital Radio & Headsets. The participants could win cash awards for the best design and the best prototype as also a "Certificate". Besides this, financial support shall also be given to two best designs for prototype development for each product. A brief write up and poster of the Grand Challenge is attached herewith.

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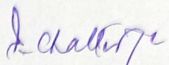
Dean Research
Ans.
20/08/21



4. You are, therefore, requested to kindly disseminate the above information to all concerned Institutions under your ambit for wider participation. The participants may submit their applications directly to CDAC, NOIDA at sunitaprasad@cdca.in or kkirankumar@cdac.in.

With regards,

Yours sincerely,


(Dr. Sandip Chatterjee)

Prof. Alok Kumar Rai
Vice-Chancellor
University of Lucknow
Lucknow University Main Building,
University Road, Babujanj, Hasanganj,
Lucknow, Uttar Pradesh 226007
Email: vc@lkouniv.ac.in



Ministry of Electronics and
Information Technology
Government of India



GRAND CHALLENGE - PRODUCT DESIGN & DEVELOPMENT FOR MOBILE HANDSET ACCESSORIES

Centre for Development of Advanced Computing (CDAC), is an Indian autonomous scientific society operating under the Ministry of Electronics and Information Technology (MeitY), Govt. of India. A Centre of Excellence (CoE) is being setup for design and development of products related to Mobile handset accessories and other electronic application at CDAC Noida in association with the Industry partner – India Cellular and Electronics Association (ICEA), financially supported by MeitY, Govt. of India and Government of Uttar Pradesh. This Coe shall provide a complete eco-system i.e R&D, Design & Testing hub for local industries to make India self-reliant in products based on Li-ion Cell for mobile handset accessories. CDAC is inviting proposals under Grand Challenge from different R&D institutes, industries and academia for seven products. The main objective of this grand challenge is to energize young minds and develop indigenous innovative commercially viable product designs which can be up-scaled further under this CoE. The details of products are given below:

P-001: To design a low-cost Power Bank

Power bank is a device that stores power in a Li-Ion battery. The stored power is used for charging- hand held or portable devices like mobile phones, tablets etc. Expected features are LED status indicator, chip level safety protection, portable size, fast Charging.

P-002: To design a low-cost USB Charger

A USB charger is a type of power adapter used to charge a battery-operated electronic device. It converts an AC voltage into required DC voltage with safety features to charge the load equipment. Expected features are over voltage protection, short circuit protection, surge protection.

P-003: To design low-cost Wireless Charger

Wireless charging works by transferring energy from the charger to a receiver in the back of the phone via electromagnetic induction. Expected features are elimination of stray radiation and, compatibility with multiple devices

P-004: To design low-cost Bluetooth Speaker

Wireless speakers are loudspeakers that receive audio signals using radio frequency (RF) waves rather than over audio cables. Bluetooth technology is used to transmit audio data to the receiving speaker. Expected features are easy pairing and noise cancellation

P-005: To design a low-Cost Smart Light System

Smart light systems constitute of automated ways to light up homes and offices thereby eliminating the need for traditional switches. Expected features in design are dim ability, energy efficiency, connectivity through an app and, provision to set timing.

P-006: To design a low-cost Digital Radio

Digital radio is the use of digital technology to transmit or receive across the radio spectrum. Expected features are sound clarity, LCD screen display, USB/AUX connectivity, Bluetooth connectivity, availability of a memory card slot.

P-007: To design a low-cost Bluetooth or a USB headset

A headset is a device that provides a two-way connection to the user's cell phone via Bluetooth. Expected features are touch control, noise cancellation, low battery consumption

Registration Link:<https://bit.ly/2W7zn30>

GRAND CHALLENGE CONTEST 2021

CoE, a MeitY and U.P. Government sponsored project is being implemented by CDAC Noida and India Cellular & Electronics Association (ICEA)

Centre of Excellence (CoE) Noida invites proposals for Grand Challenge 2021 on Product Design & Development for Mobile Handset Accessories.

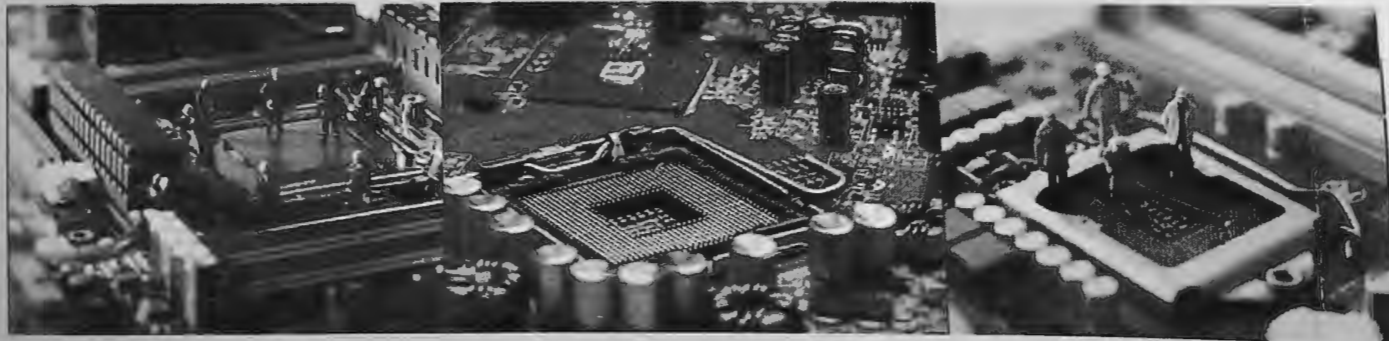
Last Date for Team Registration:
06.09.2021

Team Registration ink:
<https://bit.ly/2W7zn30>

Show Your Innovation
And Win Exciting Prizes:



- 1st Prize for Best Design – Rs. 25,000
- 1st Prize for Best Prototype – Rs. 25,000
- Funding Amount for Two Best Designs for Prototype Development – Rs. 25,000 each.





Ministry of Electronics and
Information Technology
Government of India

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CDAC



ICEA
INDIA CELLULAR
& ELECTRONICS
ASSOCIATION



Problem Statement:

- P-001: To design a low-cost power bank
- P-002: To design a low-cost USB Charger
- P-003: To design a low-cost Wireless Charger
- P-004: To design a low-cost Bluetooth Speaker
- P-005: To design a low-cost Smart light System
- P-006: To design a low-cost Digital Radio
- P-007: To design a Bluetooth or USB Headset

Important Dates:

Last date for Team Registration:	06.09.21
Last date for Synopsis Submission:	22.09.21
Date of Synopsis approval:	09.10.21
Last date for design submission:	30.11.21
Declaration of Stage -1 winner:	20.12.21
Declaration of teams for Stage-2 funding:	30.01.22
Demo of product Prototype:	25.03.22
Declaration of Stage -2 winner:	30.03.22

Terms and Conditions:

1. The contest is open for all Indian citizens.
2. Each team can participate in two problems only.
3. The participating teams must register and submit their proposal for the design and development of the products.
4. After the acceptance of the synopsis, the team shall start with the designing of the products.
5. Two designs will be selected for further development of a prototype of the product.
6. A separate fund will be given to the selected teams for prototype development.
7. The best design and the best prototype shall be awarded a cash prize.

For more details contact:

Dr. Sunita Prasad
sunitaprasad@cdac.in
9810827982

Mr. Kiran Kumar
kkirankumar@cdac.in
9560653322

Mr. Sidharth Katyal
sidharth.katyal@icea.org.in
9999505603

