  
**All India Council for Technical Education**  
 (A Statutory body under Ministry of Education, Govt. of India)  
 Nelson Mandela Marg, VasantKunj, New Delhi-110070 Website: [www.aicte-india.org](http://www.aicte-india.org)

**MODROB REGULAR - Sanction Letter**

F.No.9-11/IDC/MODROB- REG/Policy-1/2021-22

Date: 12.01.2022

To  
 The Drawing and Disbursing Officer,  
 All India Council for Technical  
 Education, Nelson Mandela Marg,  
 Vasant Kunj, New Delhi - 110070

**Sub:** Release of a sum of Rs.870000/- (**Rupees Eight Lakhs Seventy Thousand Only**) being the 1<sup>st</sup> installment **Grant-in-Aid** under the scheme (**MODROB - REG**) for the year **2021-2022** payable during the current financial year **2021-2022- reg.**

Sir/ Madam,

With reference to the proposal submitted by the institute, this is to convey that the sanction of the Council for payment of **Rs.1087500/- (Rupees Ten Lakhs Eighty Seven Thousand Five Hundred Only)** as sanctioned **Grant-in-Aid** under the **Modernization and Removal of Obsolescence - Regular (MODROB-REG)** scheme, as per details given below:

1.	Name and address of the Beneficiary Institution:	Director/ Principal/ Registrar, <b>DR. B.C. ROY ENGINEERING COLLEGE, DURGAPUR, JEMUA ROAD, FULJHORE, DURGAPUR, 713206,</b>		
2.	Title of Project:	<b>Up-gradation &amp; Modernization of "VLSI Lab (Phase-II)" to enhance teaching, training and research capabilities in VLSI domain.</b>		
3.	Name of Coordinator:	<b>ALOKE SAHA</b>		
4.	Duration of the project:	<b>2 years</b>		
5.	Total Project Cost:	<b>Rs.1387500/-</b>		
6.	Contribution from AICTE, Industry & Institute:	<b>AICTE</b>	<b>Industry</b>	<b>Institute</b>
		<b>Rs.1087500/-</b>	<b>Rs.200000/-</b>	<b>Rs.100000/-</b>
7.	Total Sanctioned Grant-in-aid:	<b>Non-Recurring(85%):</b>	<b>Recurring (15%):</b>	<b>TOTAL</b>
		<b>Rs.924375/-</b>	<b>Rs.163125/-</b>	<b>Rs.1087500/-</b>
8.	Amount to be released during the year 2021-22:	<b>Non-Recurring (85%):</b>	<b>Recurring (15%):</b>	<b>TOTAL</b>
		<b>Rs.739500/-</b>	<b>Rs.130500/-</b>	<b>Rs.870000/-</b>
9.	Sanctioned grant-in-aid is debatable to:	<b>Major Head 601.18(a) Gen. (Plan Head)</b>		

The contributions from industry and institute (as mentioned in the row 6 of the Table above) must reflect in the Receipt & Expenditure Statement in respect of this project, failing which AICTE may not consider proposals under the Scheme in future.

1. The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the Grant-in-Aid bill and shall be disbursed to and credited to the account of Director/ Principal/ Registrar of the Institute through RTGS/ PFMS.
2. This Grant-in-Aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

F.No.9-11/IDC/MODROB- REG/Policy-1/2021-22



**The instructions/guidelines to be followed by University/Institution**

**I. Release of funds**

- a. The Principal/ Director of the institute and the Coordinator of the project are hereby requested to verify the correctness of the undermentioned bank account/ RTGS details submitted by them along with the Proposal, in which the grant is being released:

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAABD0204F	AXIS BANK	City Centre	No. 101/N, Sahid Khudiram Sarani, City Centre, District Burdwan, Durgapur, Pin 713216, West Bengal	Dr. B.C. Roy Engineering College	Saving Account	21301010011263	011B0000213

In case of any omission the same should be reported to AICTE immediately.

- b. The sanction is issued in exercise of the powers delegated to the council and other terms & conditions laid down in the guidelines of the scheme.
- c. 80% grant of the sanctioned amount is being released to institution as first installment followed by 20% as reimbursement after Utilization Certificate (UC) and other requisite documents as specified in terms & conditions of MODROB scheme.

**II. Maintenance of accounts**

- a. The institute shall strictly follow the provisions laid down in the scheme document and this sanction letter. All correspondences related to the project must contain this number along with year of sanction of the project failing which correspondence will not be entertained.
- b. Funds covered by this grant shall be kept separately and would not be mixed up with other funds, so as to know the amount of interest accrued on the grant from AICTE.
- c. The University/ College/ Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure (list enclosed).
- d. The Council or its nominee shall have the right to check/ verify the account to satisfy that the fund has been utilized for the purpose for it was sanctioned.
- e. The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal/ Director/ Registrar shall intimate about the receipt of the grant to AICTE. Any expenditure incurred prior to the issuance of the sanction letter will not be allowed to be adjusted in the grant and if the Institution/ University does not take the project work within one month of the receipt of the grant, the approval shall ipso fact lapse.
- f. After receipt of the grant from AICTE, the Institute shall send a confirmation to AICTE within 2 months of receipt of grant that the sanctioned project has been started/is in progress.

**III. Refund of grant by way of a demand draft in favour of Member Secretary, AICTE, New Delhi**

- a. If the college/ institute does not have the Letter of Approval (LOA) or Extension of Approval issued by AICTE for the academic year 2021-22, the fund released should be immediately refunded to AICTE with interest accrued thereon.
- b. If project is not started within six months of the issuance of this Sanction Letter, the released amount along with interest accrued thereon, has to be necessarily returned to AICTE.
- c. It may be ensured that the project is completed within the stipulated time. If the project is not completed in



time, no further extension will be granted in any case and institute has to refund the entire amount to AICTE.

- d. As per the scheme guidelines, maximum three proposals per institute (Including sanctioned earlier but not completed) can be considered. Institute is required to ascertain this condition. In case, if institute is having more than three projects ongoing including this project, the grant is to be refunded back to AICTE immediately.
- e. As AICTE needs adequate time for depositing the Demand Draft in the bank, the same be immediately dispatched to avoid any lapse of the validity period.

#### IV. Submission of documents by college/institution after completion of Project/Subsequent years.

The following mandatory relevant documents are required to be submitted by the college/institution within one month of the completion of the project: -

- a. Feedback form in the prescribed proforma.
- b. The **Annual Progress Report (APR)** in the prescribed format along with the original Statement of actual Expenditure in the prescribed proforma duly signed by the Head of the institution and shall be submitted to AICTE not later than one month after completion.
- c. The **Utilization Certificate (UC)** supported by Audited Statement of Expenditure to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the AICTE immediately after completion of the project. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council. Audited Statement of Expenditure indicating expenditure incurred in the total duration of the project in the prescribed format and GFR-19 shall be submitted to the Council.
- d. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed by a Chartered Accountant (with membership no., full address & stamp). Photocopies of formats are enclosed.
- e. **Program Evaluation Committee (PEC)** is required to be constituted at Institutional level. The constitution of the PEC shall be as under:
  - (i) Principal/Director/Registrar of the Institution (Chairperson)
  - (ii) Two HODs and one subject expert (Members).
  - (iii) Coordinator of the project (Secretary),

The minutes of the meetings are to be submitted to the Council at end of the project along with other mandatory documents.

- f. Project completion report project indicating the activities undertaken, number of students benefited, laboratory works photographs of students, together with their views is to be submitted.
- g. Attested photocopies of supporting vouchers/bills of expenditure incurred for the completion of Project.
- h. Photographs of equipment purchased.
- i. The balance amount of the grant will be reimbursed to the university/institution only on submission of the above documents. On receipt of these documents, the total amount of balance of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall be released, as second installment, in favour of the beneficiary institution.

#### V. General instructions

- a. The amount of interest accrued on the grant should be treated as part of the grant to be utilized for that particular project. However, the interest amount accrued along with grant disbursed should not exceed the total grant sanctioned for the project. The Institute receiving the grant should reflect the same in the audited statement of accounts/ utilization certificate and may either refund the interest amount to AICTE or AICTE shall adjust the same in the next installment of grant before its released.
- b. Any unavoidable circumstantial change in the project with respect to name of Project Coordinator for the

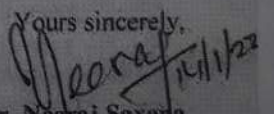


MODROB project would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council.

- c. The grantee shall maintain an audited record of assets acquired wholly or substantially out of the Grant-in-Aid and a register of assets shall be maintained by the Institute in the prescribed form i.e. GFR-19.
- d. The College/ Institute receiving grant under MODROB is expected to put up a plaque at the main entrance of the Lab/ Department, which has been modernized using the grant. All the equipment procured through the project should be superscribed with AICTE project file number.
- e. The assets acquired wholly or substantially out of grant shall not be disposed or encumbered or utilized for the purpose other than those for which the Grant was given without proper sanction of the AICTE and should at any time the institution cease to function, such assets shall revert to the AICTE.
- f. When the institute ceases to function, it shall take action with respect to equipment/ items procured through AICTE grants as follows:
  - i. It shall be ensured that the project has been completed and all mandatory documents have been submitted for utilization of grant and file has been closed under which the equipment has been procured.
  - ii. The equipment/ items in unserviceable condition are to be disposed off by the institute as per the Government of India rules and the sale proceeds, if any, should be sent by Demand Draft in favor of Member Secretary, AICTE, New Delhi.
  - iii. The equipment/ items in working/ serviceable condition shall be transferred in preferential order to:
    - Institute under the same society/ trust/ management.
    - Nearby AICTE approved Government (Degree/ Diploma) institute/ College.
  - iv. The transportation charges for shifting of equipment/ items be borne by borrowing institute.
  - v. AICTE shall be intimated regarding handover/ takeover of the equipment/ items.
- g. The grantee Institution shall observe all financial norms and guidelines as prescribed by the AICTE/ Government of India from time to time. GOI GFR rules (@<https://doe.gov.in/order-circular/general-financial-rules2017>) should be followed during utilization of grant.
- h. The department/ institute is expected to utilize these equipment/ items alongwith others in offering student internship also by registering on the AICTE Internship Portal (@<https://internship.aicte-india.org>). The internships can be offered to students of other institutions also.
- i. As mentioned in the scheme document, the institute must register in I-STEM (Indian Science, Technology & Engineering Facilities Map) (@<https://www.istem.gov.in>).

**List of Equipment/ Items approved:**

Name of Equipment/Items
Server Machine
25 Licence Renewal of Digital VLSI software
Digital Multi Meter (DMM)
Licence Renewal of Software
Mentor Graphics Licence Additional 10 user
PYNQ-Z2
Projector

Yours sincerely,  
  
Dr. Neeraj Saxena  
Advisor (IDC)





Phone : 011-26131577 - 78, 80  
011-29581000  
Website : www.aicte-india.org

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सत्यमेव जयते

अखिल भारतीय तकनीकी शिक्षा परिषद्  
( भारत सरकार का एक संवैधानिक निकाय )  
( मानव संसाधन विकास मंत्रालय, भारत सरकार )  
नेल्सन मंडेला मार्ग, वसंत कुंज, नई दिल्ली-110070

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
(A Statutory Body of the Govt. of India)  
(Ministry of Human Resource Development, Govt. of India)  
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

F. No. AICTE/IDC/IDEA202000139/2021

Dated -- 17.06.2021

To

**THE PRINCIPAL/ DIRECTOR**  
DR. B.C. ROY ENGINEERING COLLEGE, DURGAPUR(PID - 1-3634031),  
JEMUA ROAD, FULJHORE,DURGAPUR.DURGAPUR,  
713206, West Bengal.

Sub: AICTE-IDEA Lab Project Offer/ Acceptance Letter (AQIS ID -IDEA202000139).

Madam /Sir,

We are pleased to inform that your institution is selected for establishing an AICTE IDEA Lab with following budget and fund flow.

Total Project Cost, Rs. (in lakh)	Contribution, Rs. (in lakh)					
	AICTE			Industry /Institute		
	NR	R	Total	NR	R	Total
78.99	24.50	15.00	39.5	24.50	15.00	39.50

[NR- Non-Recurring Expenditure, R- Recurring Expenditure]

AICTE shall be, as per scheme document, releasing 80% of its contribution as first instalment, only after matching grant (80% of contribution from industry/ institution) is deposited in an exclusive Bank Account of AICTE IDEA Lab and proof submitted to us. Further your institution must ensure continuous flow of funds into project over and above your contribution in the table above, towards sustenance of IDEA Lab beyond 2 years. You must ensure sustenance of IDEA Lab, to be eligible for grants from AICTE in future.

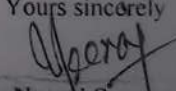
We would also like to recall among other things the following towards smooth initiation of project.

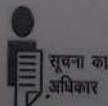
- Your institution must provide a built-up and furnished space of at least 3000 sq. ft. to house the IDEA Lab (2000 sq ft for Lab & 1000 sq ft for student activities).
- Your institution should open a separate bank account for this project within a week and the same be intimated to us through the Mandate Form (enclosed). This is required for issuing Sanction Order from our end.
- Your institution must abide by Terms and Conditions provided in the Scheme Document (accessible from our website).
- The institution must observe Code of Conduct for AICTE-IDEA Lab, given in Scheme Document.
- The logo of AICTE IDEA Lab can be used by the institution as long as it has a valid Extension of Approval (EoA).

We will shortly be organising an online awareness programme for selected institute to detail the subsequent steps toward effective implementation of the project.

We look forward to an Acceptance Letter (giving reference to this offer letter) within a week and hope that the institute will implement the prestigious project with all sincerity and commitment.

Yours sincerely

  
Dr. Neeraj Saxena  
Adviser - II (IDC)



सूचना का  
अधिकार

8/25/2021

Dr. B.C Roy Engineering College, Durgapur Mail - PRISM project, "A Fuzzy Based Solar Egg-Incubator: A Low cost New Technology"

BCREC  
mail



4/1

Dr. Dola Sinha <dola.sinha@bcrec.ac.in>

## PRISM project, "A Fuzzy Based Solar Egg-Incubator: A Low cost New Technology"

1 message

Ramanuj Banerjee <ramanuj.b@nic.in>  
To: dola.sinha@bcrec.ac.in  
Cc: sanjaykain16 <sanjaykain16@hotmail.com>

Tue, Aug 24, 2021 at 5:36 PM

Please send all document through TOCIC pl.

Dear Madam,

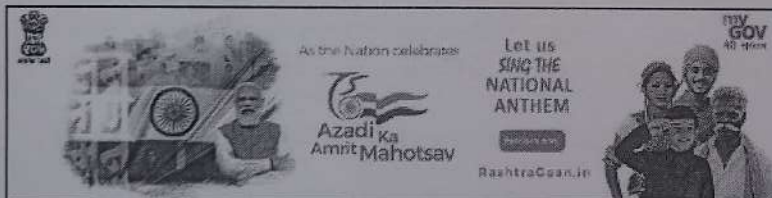
We are glad to inform you that PRISM screening committee has recommended your proposal, " **A Fuzzy Based Solar Egg-Incubator: A Low cost New Technology** ". Please see the enclosed letter for details process.

You are requested to submit signed terms & conditions in Rs. 50 stamp paper (format enclosed) and ECS blank form (enclosed) duly filled and endorsed by the bank manager pl.

CC: CSIR-CGCRI, Kolkata please help innovator to make the process done successfully

regards,

Dr. Ramanuj Banerjee  
Scientist-'F' & Member Secretary, PRISM  
Government of India  
Department of Scientific & Industrial Research  
Ministry of Science and Technology  
Technology Bhawan, New Mehrauli Road, New Delhi-110016  
Phone: 011-26590426,26534665



### 3 attachments

ECS\_Blank.pdf  
166K

Terms and conditions.doc  
47K

Letter.doc  
33K



### 3. Brief description of the idea highlighting innovative element.

Title: Fuzzy Based Solar Egg-Incubator: A low cost new Technology

The poultry sector of India experienced more rapid significant improvement than that of any other animal sector. It also has undergone a paradigm shift towards automation during the last decades. This basic operation of a poultry farm centres on the successful development of fertilized eggs to healthy chicks. It involves the control of the surrounding extrinsic environmental factors. A mother hen can perform this function naturally. But somehow the efficiency is low. An incubator which is the central unit of the hatchery basically sets the perfect environment and condition for an egg to hatch by regulating the factors like temperature, humidity, proper air ventilation and turning the eggs after certain intervals and finally contributes to increase the efficiency.

The existing egg incubators are high cost due to cost of raw materials required for manufacturing the egg incubator. Another constraint of the machine is increasing cost of power and energy required for the operation of hatching.

On the other hand solar power becomes one of the main non-conventional sources of energy contributing a lot to the rural and remote live hood in our country.

This project basically aims to build a cost effective solar incubator consisting of automatic controller to maintain the perfect ambience for hatching.

The proposed work concentrates on the following objectives:

- Automatic smooth control of the temperature and sufficient air circulation inside the incubator
- Automatic smooth control of humidity inside the incubator
- Automatic regular rotation of the eggs
- Go green with solar power i.e., easy on the wallet and the environment.

**Innovation:** There are some main contributions of the work:

1. Use of low cost air cooling techniques over the techniques of air conditions where khas-khas, cooling fan and water pump are used. The speed of fan and pump will be increased with increment of temperature after a certain range of temperature. The amount of efficiency sacrificed may be justified if we consider the cost minimization.
2. An idea of humidity control can be achieved by using silica gel, which will be kept in a closed chamber and the doors of the chamber will be opened and closed by electromagnet for dehumidification of inside air.
3. The fuzzy based central control unit is the main innovation of the project. A detailed programming in a single Arduino is quite capable of controlling temperature and humidity altogether by switching ON and OFF several devices as per requirement.
4. To run the whole system solar power will be used which is cost effective, eco friendly. And for backup batteries will be there, which can also be charged from solar panel. So it is only one time investment and there is no running cost



## Fuzzy Based Solar Egg-Incubator: A low cost new Technology

Innovator: Dr. Dola Sinha

Farm mechanisation is absolutely necessary for the growth of Indian economy which is only 18% now. An automatic egg-incubator is a part of agriculture mechanisation which provides an artificial environment to support the foetus to grow inside without the presence of the mother. It regulates the suitable temperature and humidity and automatic turning of eggs with certain intervals.

In the existing technology,

- The automated egg incubators are based on *conventional or PID based controller*. PID controller is readily available but its gains are to be tuned to get better results. Slight change in system parameters need to vary the gains. It makes the controller less adaptive. [Drawback 1]
- In the market, single stage and double or multi-stage incubators are available. Multi-stage incubators are complex in structure and its operation. Incubation environment is disturbed during each loading/unloading activity. Here manual interventions interrupt the incubation process and consume higher electricity. Thus it is not economical. [Drawback 2]
- In the existing incubators, incubation tray rotates but eggs do not rotate through their axes. Thus it creates deformities in the embryo or requires rotation of egg by hand. [Drawback 3]
- Existing incubators are run by electricity. For uninterrupted power supply there is a strong need of Inverter and battery, which will added extra cost of the system. So it has higher running cost also. [Drawback 4]
- Sometime diesel generators are used to supply the power, which creates environment pollution and directly it affects the health of chicks. [Drawback 5]

Based on the above drawbacks of the existing egg incubators in the market, we would like to fabricate a single stage, fuzzy logic based low cost solar powered automatic egg incubator, which provides flexible and smooth control of temperature and humidity, and automatic rotation of eggs in its own axes. Thus the objectives of this project are:

- **Automatic flexible control of the temperature and sufficient air circulation inside the incubator**
- **Automatic smooth control of humidity inside the incubator**
- **Automatic regular rotation of the eggs in its axis**
- **Go green with solar power i.e., easy on the wallet and the environment.**

Fuzzy logic controller in its design itself is adaptive and simple in structure. Computational complexity is also very low and making it suitable for hardware implementation. It can be handled by unskilled operators also. In the egg-incubator, there are number of atmospheric conditions that may arise depending on the variation of temperature and humidity. The Fuzzy logic controller can take care of each possible condition by set the rules manually without using individual controller for controlling each parameter. So this can be economical as well as simple in process. Stepper motor based egg rotation technology is used here, which is also connected with Arduino based micro controller, which provide house for the fuzzy logic controller. So, one central controller can control all the parameters.

Here, the incubator is based on single stage. For the cases of Hatchability, 1st grade chicks, 7-day mortality and Livability, the single-stage system is more than multi-stage system by 2.59 %, 2.80 %, 2.69 % and 0.175 % respectively. It causes an increase in Average chick weight, Average chicken weight and Avg. daily gain by 1.59%, 1.21 g, 0.59 g and 0.8 g/day respectively when compared to multi-stage system.



Solar power and battery based system provides uninterrupted power supply with environment friendly clean technology and less running cost. Also it reduces 50% of the production cost. It will be one time investment and beneficial for long term. The clean technology can also be useful for organic farming and produce healthy chicks.

**Work done so far:**

- Fuzzy based adaptive central controller is designed for flexible control of the all parameters.
- Simulation study of the proposed scheme is done which shows satisfactory results.
- Automatic rotation of egg in its axis inside the incubation tray is made satisfactorily
- Automatic individual control of Fan and pump
- Incubator box with humidity control through magnetic door.

**Opportunity of this project:**

- This will contribute more and more towards Indian GDP;
- Fuel cost incurred in farm automation contributes to about 50% of the production cost according to Bhartiya Kisan Sangh; on rising fuel costs of 2020. As the machine will be automatic without any fuel cost so it will reduce the production cost by 50%.
- Solve unemployment to a huge extent by providing opportunities for employment in the manufacturing unit.
- Timely and precise hatching improves the health of chicks.
- It will encourage poultry farming in remote areas having scarcity of electricity.

**Market:**

In Indian scenario, the consumption of poultry meat during 2013-2020 approximately 3955000 metric ton and the global poultry meat market accelerate at a CAGR rate of 3% in 2020-2024. Thus there is a huge demand of poultry market. It is expected that the demand of automatic solar energy based efficient egg incubator is/will be high. In Covid -19 scenario, consumption of poultry products are also enhanced. Due to non availability of solar energy and fuzzy based flexible central controller for egg incubator, it is expected that it will create huge demand in the market and market share will rise more than 1%.



File No. DSIR/PRISM/207/2021  
Government of India  
Ministry of Science & Technology  
Department of Scientific & Industrial Research

Technology Bhavan  
New Mehrauli Road  
New Delhi-110 016

Dated: 21.09.2021

To

The Pay & Accounts Officer,  
Department of Scientific & Industrial Research,  
New Delhi.

**Subject: "A Fuzzy Based Solar Egg-Incubator: A Low Cost New Technology" – financial support under Promoting Innovations in Individuals, Start-ups and MSMEs (PRISM) of DSIR.**

Sir,

I am directed to convey the approval & sanction of the President of India for the above project entitled "A Fuzzy Based Solar Egg-Incubator: A Low Cost New Technology" submitted by Dr. Dola Sinha, West Bengal under Promoting Innovations in Individuals, Start-ups and MSMEs (PRISM) scheme of Department of Scientific & Industrial Research (DSIR) for PRISM support of ₹2.00 Lakhs/- (Rs. Two Lakhs Only), out of the total project cost of Rs. 2.30 lakhs/- (Rupees Two Lakh Thirty Thousand only) for a duration of 18 months and ₹0.20 lakhs (Rupees Twenty Thousand only) to TOCIC at CTAE, Udaipur for providing necessary assistance in execution of the project. The support of ₹2.00 Lakhs/- (Rs. Two lakhs Only) for project work under PRISM Grants-in-Aid is to be utilized as under. The balance expenditure will be borne by the innovator.

Sl. No.	Items	Proposed total expenditure	Amount (in lakhs) PRISM support recommended
1.	R&D/Design Engineering / Consultancy charges	-	-
2.	Rental charges for laboratory / workshop facilities	-	-
3.	Essential equipment that cannot be taken on rent	-	-
4.	Raw material / spares/consumables cost	0.85	0.70
5.	Fabrication / synthesis charges	0.90	0.90
6.	Manpower (based on actual & not exceeding 20% of the total project cost)	-	-
7.	Testing and trials	-	-
8.	Travel (based on actual & not exceeding 5% of the total project cost)	0.10	0.10
9.	Patent Filing (Actual fee paid to patent office)	0.20	0.20
10.	Other Expenditure	0.25	0.10
	<b>Total Cost :</b>	<b>2.30</b>	<b>2.00</b>

2. I am also directed to convey the sanction of the President of India for the release of first instalment of ₹1.60 lakhs (Rupees One Lakh Sixty Thousand only) to the innovator, Dr. Dola Sinha, West Bengal for the project work and ₹16,000/- (Rupees Sixteen Thousand only) to TOCIC at CTAE, Udaipur under Promoting Innovations in Individuals, Start-ups and MSMEs (PRISM) programme of DSIR.

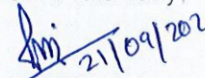
3. The amount of ₹1.76 lakhs (Rupees One Lakh Seventy six Thousand only) will be drawn by the Drawing and Disbursing Officer, Department of Scientific & Industrial Research (DSIR), New Delhi and will be disbursed through RTGS/NEFT to the following as per details given below:

contd. . on pp. 2/-



Name of the Beneficiary with Full Address	Dr. Dola Sinha, B-1/2B, NIT Campus, Durgapur, West Bengal – 713 209	College of Technology and Engineering, Udaipur – 313 001 Kind Attn: Dean
Beneficiaries Bank with Full Address	HDFC Bank Ltd. A 102 and 103, City Centre, Bengal Shristi Complex, Durgapur, West Bengal-713 216	Punjab National Bank Sant Teresa Asram, Udaipur (Rajasthan)
IFSC of the Bank	HDFC0000234	PUNB0472100
Beneficiaries Account Number	02341050014225	4721000400000772
Amount	₹1.60 lakhs (Rs. One Lakh Sixty Thousands only)	₹16,000/- (Rs. Sixteen Thousand only)

4. This DSIR support is subject to the terms & conditions as accepted by Dr. Dola Sinha, West Bengal. The next instalment of DSIR support would be considered for release based on the progress of the project and receipt of Statement of Expenditure (SE) and Utilisation Certificate (UC) from Dr. Dola Sinha, West Bengal and TOCIC at CTAE, Udaipur.
5. It is certified that the provision of GFR 212(1) relating to Utilization Certificate (UCs) does not arise for this release as this is the 1<sup>st</sup> instalment towards the activity.
6. As per Rule 211(1) of GFRs, the accounts of the Grantee shall be open to inspection by the sanctioning authority/audit whenever the Grantee is called upon to do so.
7. As per provision contained in GFR Rule 230 (8) all interests/other earnings accrued against Grants-in aid shall be mandatorily remitted to the Ministry of Science & Technology, Govt. of India.
8. The expenditure involved will be debited against Demand No. 90 of DSIR plan (2021-22), 3425 Major Head, 60-Others (Sub-Major Head), 60.200 (Assistance to other Scientific bodies), 59-PRISM (Promoting Innovations in Individuals, Start-ups and MSMEs), 59.01.31 (Grants-in-Aid), where funds are available for the purpose.
9. This sanction has been issued under the powers delegated to this department and with the concurrence of IFD vide their diary no. E1597/DS(F)/DSIR/2021 dated 06.09.2021.
10. Sanction has been entered at Sl. No. 26 in the register of the grants (2021-22) maintained by the division.

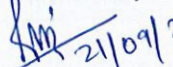
Yours faithfully,  


(Dr. Ramanuj Banerjee)  
Scientist-F

Copy to:

1. Cash Section, DSIR – 3 copies
2. Dr. Dola Sinha, B-1/2B, NIT Campus, Durgapur, West Bengal – 713 209
3. Dean, College of Technology and Engineering, Maharana Pratap University of Technology & Engineering, University Campus, Udaipur – 313 001, Rajasthan
4. Prof. Sanjay Jain, Co-ordinator, TePP Outreach cum Cluster Innovation Centre (TOCIC), Department of Farm Machinery and Power Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur – 313 001
5. IFD, DSIR
6. Director of Audit (CW&M-II), ACGR Building, IP Estate, New Delhi-110 001
7. Dr. P.K.Dutta, Scientist-F & Head PRISM, DSIR
8. Sanction Folder
9. Project File.

Yours faithfully,

  
(Dr. Ramanuj Banerjee)  
Scientist-F



3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.3 Number of departments having Research projects funded by government and non government agencies during the year

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government/non-Government)
Up-gradation & Modernization of "VLSI Lab (Phase-II)" to enhance teaching, training and research capabilities in VLSI domain	Dr. Alope Saha	Electronics & Communication Engineering	2022	13.875	2 years	AICTE (MODROB-REG)	Government
AICTE-IDEA Lab	Dr. Mrinmoy Chakraborty	Electronics & Communication Engineering	2021	39.5	2 years	AICTE - IDEA	Government
PRISM project, "A Fuzzy Based Solar Egg-Incubator: A Low cost New Technology"	Dr. Dola Sinha	Electrical Engineering	2021	2.3	2 years	Department of Scientific & Industrial Research	Government
				55.675			