



# The Institution of Engineers (India)

Technical Department

R&D Grant-in-aid Scheme

## UTILISATION CERTIFICATE

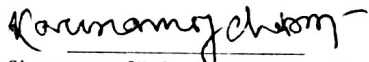
(Two copies duly signed & sealed by all concern)

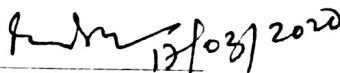
[FOR THE FINANCIAL YEAR (ENDING 31<sup>ST</sup> MARCH)]

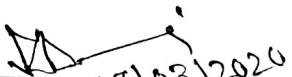
1. Project ID : PG 2019012
2. Title of the Project : A CASE STUDY FOR MEASUREMENT OF TEMPERATURE OF COAL PIPE OF PULVERIZED COAL-FIRED BOILER SYSTEM USING THE MODIFIED BRIDGE NETWORK.
3. Name of the Institution : Bankura Unnayani Institute of Engineering
4. Name of the Project Guide (PG) : Dr. Karunamoy Chatterjee

## UTILISATION CERTIFICATE

Certified that out of ₹ 40000/- of grants-in-aid sanctioned during the year 2019 in favour of BANURA UNNAYANI INSTITUTE OF ENGINEERING under IIE(s) letter No R5/2/PG/2018-2019/PG2019012 dated 18<sup>TH</sup> APRIL, 2019 and ₹ 40000/- A sum of ₹ 40000/- has been utilized for the purpose of Completion of R&D Project for which it was sanctioned and that the balance of ₹NIL remaining unutilized at the end of completion has been returned to IIE (vide Cheque/DD No N/A dated N/A)

  
Signature of Principal Guide with  
date & seal 17/3/2020

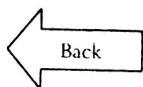
  
Signature of Registrar/  
Director /  
Principal with date & seal

  
Accounts Officer of the  
Institute with date & seal



**Registrar**  
**Bankura Unnayani**  
**Institute of Engineering**

**Sr. Accountant**  
**Bankura Unnayani Institute of Engg.**  
**Pohabagan, Bankura**





# The Institution of Engineers (India)

*Technical Department*

**R&D Grant-in-aid Scheme**

## PROJECT COMPLETION REPORT

1. Project ID : PG 2019012
2. Project Title: A CASE STUDY FOR MEASUREMENT OF TEMPERATURE OF COAL PIPE OF PULVERIZED COAL-FIRED BOILER SYSTEM USING THE MODIFIED BRIDGE NETWORK.
3. Name of the Investigator: Dr. Karunamoy chatterjee
  - a. E-mail: karuna\_ds@rediffmail.com
  - c. Mobile No: 9474458652
  - b. Contact Address : At: Khudiram sarani(w) Post: kenduadihi Dist: Bankura. Pin: 722102
4. Name of the Institution of which Investigator is attached: Bankura Unnayani Institute of Engineering, Bankura
5. Name and Designation of the Guide / supervisor: Dr. Karunamoy Chatterjee, Associate professor, ECE Dept.
  - a. E-mail: karuna\_ds@rediffmail.com
  - b. Mobile No.: 9474458652
6. Name of the Director / Principal of the Institution: Prof.(Dr.) Krishnendu Adhvaryu.
7. Date of Release of R & D Grant: 23/04/2019
8. Date of Commencement of the Project: 25/04/2019
9. Amount of R & D Grant: Rs. 40000/-
10. Date of Receipt of R & D Grant: 24/04/2019
11. How much work is yet to be completed with the reason of delay: N/A
  - a. Percentage of work completed: 100%
  - b. Amount utilized till date: Rs. 40000/-

Continued.....



The Institution of Engineers (India)  
Technical Department  
R&D Grant-in-aid Scheme

PROJECT I.D \_\_\_\_\_ PG 2019012 \_\_\_\_\_

CERTIFICATE

Certified that:

1. The above progress report is correctly and duly audited. YES
2. The necessary infrastructure is available for completion of the project by the due date. YES
3. The balance amount is readily available for completion of the project by the due date. YES
4. Interim technical report on the project has been enclosed. YES
5. The project will be completed by the due date. Already Completed

1. Tapan Maitly

2. Karunamoy Choudhury

Signature of the Investigator

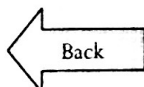
Karunamoy Choudhury

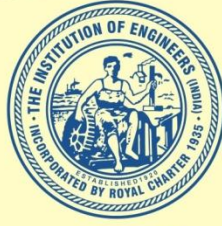
Signature of the Guide

  
17/3/2020

Signature & Seal of the Director/Principal

Principal  
Bankura Unnayani  
Institute of Engineering





# The Institution of Engineers (India)

A Scientific and Industrial Research Organisation (SIRO)  
Recognised by Government of India, Ministry of Science and Technology,  
Department of Scientific and Industrial Research

## Certificate of Project Completion

This is to certify that the PG project entitled ***“A Case Study for Measurement of Temperature of Coal Pipe of Pulverized Coal-Fired Boiler System Using The Modified Bridge Network”*** bearing Project ID **PG2019012** has been successfully carried out and completed by:

*Japan Maity, AMIE*

of

**Bankura Unnayani Institute of Engineering,**

***Institutional Member of IEI***

under the guidance of

*Dr Kaunamoy Chatterjee, MIE*

during the FY 2018-19 through funding under IEI R&D Grant-in-Aid Scheme.



*[Signature]*

Secretary & Director General