



# Surya Sen Mahavidyalaya

Siliguri



**ASSESSMENT PERIOD**  
**2018-2019 TO 2022-2023**

**SUPPORTING ATTACHMENTS**

**CRITERION – 3**

**Key Indicator – 3.5 Collaboration**

***3.5.1 Number of function MoUs/linkages with institutions/industries in India and abroad for internship, on-the-job training, project work, student/faculty exchange and collaborative research during the last five years.***

**Content:**

**Synchrotron experiments in PETRA III, DESY, Hamburg, Germany**

# SURYA SEN MAHAVIDYALAYA

[AMulti-streamGovt. Aided College &Recognised by UGCu/s2(f) &12(b)]

[NAACACCREDITED][ISO 9001:2015]

**BlockB,Surya SenColony,Siliguri,WB - 734004.**

(Affiliated to University of North Bengal)



## Department of Physics

Date: 04.01.2022

### Synchrotron experiments in PETRA III, DESY, Hamburg, Germany

Dr. Arindam Karmakar and Mijanul Islam performed XAFS experiments in the synchrotron facility in PETRA III of DESY, Germany, in online mode in December 2021 on proposal submission and acceptance basis. The experiment was funded by DST, India, upon open peer review of the proposal.

**Proposal no.:** I-20210617

**Proposal title:** XAFS studies of some emerging 114 magnetoelectric oxides

**Beamline:** P64

**Duration:** 10.12.21, 09:00 hrs to13.12.21, 09:00 hrs.

**Mode of experiments:** Sample mail-in mode (Due to pandemic).

**Funding by:** DST, India, Nodal Institute: JNCASR, Bangalore.

#### Participants:

PI: Dr. Arindam Karmakar, Assistant Professor, Dept. of Physics, Surya Sen Mahavidyalaya, Siliguri.

Student: Mijanul Islam, Project Fellow, Dept. of Physics, Surya Sen Mahavidyalaya, Siliguri.

*Arindam Karmakar*

Dr. Arindam Karmakar

Assistant Professor

Physics

  
**DR. P.K. MISHRA**  
Principal  
Surya Sen Mahavidyalaya  
Siliguri - 734004



Dr Arindam Karmakar &lt;akarmakar@suryasencollege.org.in&gt;

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**[DESY Photon Science - DOOR] Experiment scheduled**

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**DOOR** <door@desy.de>  
Reply-To: door@desy.de  
To: akarmakar@suryasencollege.org.in

Fri, Jun 18, 2021 at 8:27 PM

Dear Dr. Arindam Karmakar

During the last Call for Proposals for PETRA III you have submitted the proposal:

Proposal: I-20210617 'XAFS studies of some emerging 114 magnetoelectric oxides'  
Project leader: Dr. Arindam Karmakar  
Principal investigator: Dr. Arindam Karmakar

This proposal has been positively evaluated by the Project Review Panel,  
and we have scheduled beamtime as follows:

Beamline: P64  
Experiment: Standard XAFS  
Your Local Contact is: Dr. Akhil Tayal ([akhil.tayal@desy.de](mailto:akhil.tayal@desy.de))  
No. of scheduled shifts: 9  
Assigned beamtime period: 10-Dec-2021 09:00 - 13-Dec-2021 09:00

Next steps to be taken by the PI:

At least 4 weeks before the scheduled experiment you have to log on to  
DOOR: <https://door.desy.de> and  
- fill in the "Declaration of substances"  
- if applicable: fill in "Use of chemistry lab", "Use of biological agents" and "Use of own lasers"  
- register all participants  
- submit application for travel cost reimbursement for users from German universities/users with transnational access (CALIPSOplus) related to an EC proposal.

In addition, please make sure that all participants complete their  
online safety training (also accessible via DOOR) before coming to DESY.

In case you require special gases or specific technical installations for  
your experiment, please address your Local Contact as soon as possible  
to enable us to provide the requested support in due time.

Detailed information on the technical infrastructure and laboratories can be found at:  
[https://photon-science.desy.de/facilities/on\\_site\\_infrastructure/index\\_eng.html](https://photon-science.desy.de/facilities/on_site_infrastructure/index_eng.html)

Accommodation at the DESY Hostel should be booked as soon as possible and well  
in advance under specification of the facility (PETRA III/FLASH/DESY NanoLab) via  
[https://welcome-services.desy.de/hostel\\_in\\_hamburg/index\\_eng.html](https://welcome-services.desy.de/hostel_in_hamburg/index_eng.html)

For any questions regarding your beamtime, please address your Local Contact.  
For inquiries concerning your stay in Hamburg or any procedure in DOOR please  
do not hesitate to contact the DESY Photon Science User Office ([door@desy.de](mailto:door@desy.de)).

We look forward to welcoming you here at DESY,  
with best regards  
DESY Photon Science User Office



**DR. P.K. MISHRA**  
Principal  
Surya Sen Mahavidyalaya  
Siliguri - 734004



JNCASR

## जवाहरलाल नेहरू उन्नत वैज्ञानिक अनुसंधान केंद्र

जक्कूर, बेंगलुरु - 560064 कर्नाटक, भारत

विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार के अधीन एक स्वायत्त संस्थान  
सम विश्वविद्यालय संस्थान

## Jawaharlal Nehru Centre For Advanced Scientific Research

Jakkur, Bengaluru - 560064 Karnataka, INDIA

An autonomous institution under Department of Science and Technology, Govt. of India.  
An Institution Deemed-to-be-University



**Prof. Kanishka Biswas**  
**Principal Coordinator, PETRA III Project**

JNC/PETRA/IN-18

November 23, 2021

Dr. Arindam Karmakar  
Department of Physics  
Surya Sen Mahavidyalaya  
Block B, Surya Sen Colony  
P.O. Siliguri Town, Dist. Jalpaiguri,  
West Bengal - 734004

Dear Dr. Karmakar,

Please refer to your following allocated proposal to Petra-III:

**ID:** I-20210617

**Title:** "XAFS studies of some emerging 114 magnetoelectric oxides"

**Proposer:** Dr. Arindam Karmakar, **Email:** akarmakar@suryasencollege.org.in

**Nominated scientists:** (1) Dr. Arindam Karmakar (2) Mr. Mijanul Islam

**Beamline:** P64

**Allocated shifts:** 9 shifts (between 10/12/2021 to 13/12/2021)

*Please note that necessary financial support for the 2 nominated scientists will be reimbursed by Jawaharlal Nehru Centre for Advanced Scientific Research from the DST-DESY project to carry out the proposed experiment on DESY, Germany and the maximum number of days for which DA will be paid is 6 days.*

The Financial support includes:

1. Economy class return Air Fare from place of work to Hamburg and back (follow standard Govt. of India rule, i.e., Air India flight, ticketing directly from Air India or Authorized Travel Agents viz. M/s Balmer Lawrie & Company, M/s Ashok Travels & Tours, IRCTC (No code shared Air India Flights should be booked).
2. Local conveyance from place of Residence/Office to the Airport and back (place of Origin).
3. Return Taxi fare from Hamburg Airport to DESY.
4. Accommodation charge (maximum 50 USD per day).
5. DA as mentioned above @ (75 USD per day).
6. Visa fees.
7. Travel Medical Insurance.

*While publishing the work the PIs should check with the beam scientist whether they would like to be co-authors. In addition, they should include in the acknowledgement the following text "Portions of this research were carried out at the light source PETRAIII of DESY, a member of the Helmholtz Association (HGF). We would like to thank NN\* for assistance at beamline NN\*\*. Financial support by the Department of Science & Technology (Government of India) provided within the framework of the India@DESY collaboration is gratefully acknowledged."*

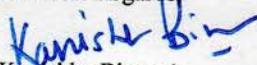
*\* Names of the supporting beamline staff in case they are not co-authors*

*\*\* Name of the beamline(s)*

The quarantine and medical expenses related charges if any will not be reimbursed and COVID related norm of DESY should be followed.

Please feel free to get in touch with us on india-desy@jncasr.ac.in for any clarification /assistance.

With best Regards

  
(Kanishka Biswas)

PS: The PI should forward the TA form duly filled (attached with this letter) with all the necessary documents after the visit. For further information contact (india-desy@jncasr.ac.in).

  
**DR. P.K. MISHRA**  
Principal  
Surya Sen Mahavidyalaya  
Siliguri - 734004