

3.7.1.1: Total number of Collaborative activities with other institutions/ research establishment/industry for research

Title of the collaborative activity	Name of collaborating agency with contact details	Name of participant	Year of collaboration	Duration (Days)	Nature of activity	pdf number
Invitation to visit CSRSR for laboratory investigations	Centre for space and remote sensing research, National Central university	Prof. P.K. Goswami	2016	30	Research	1
Invitation to visit NCKU for discussions and data interpretations	National Cheng Kung University, Taiwan.	Prof. P.K. Goswami	2016	21	Research	2
Invitation to visit the Center for Space and Remote Sensing Research	Cnetre for Space and Remote Sensing Research, National Central University, Taiwan	Prof. P. K. Goswami	2016	30	Research	3
International collaboration/ Exchange Programme 2017	Indian National Science Academy	Prof Santosh Kumar (Department of Geology)	2016	21	International Collaboration / Exchange Programme	4
Invitation to visit laboratory LESIA for the project work	LESIA, Peris	Prof Ramesh Chandra	2016	30	Research	5
Invitation to give a lecture al Hiroshima Lniversity	Department of Geography, Hiroshima University, Japan	Prof. P.C.Tiwari	2017	4	Research	

Speech at DLGS Summer School as Key note Speaker	Lelbniz Institute of Ecological Urban and Regional Development, Germany	Prof. P.C.Tiwari	2017	10		
To participate in the World Resources Forum 2017	World Resources Forum Association, Geneva	Prof. P. C. Tiwari	2017	3	Research	
Collaborative Research on felsic magmatic rocks, particularly from Indian Himalayas	Xianlin Campus, Nanjing University, China	Dr Saurabh Gupta	2017	30	Research collaboration	
hematological profile & its relation to age, sex., health states and sexual maturity in snow trout <i>Schizothorax richordsmii</i>	DCFR	Dr. Uzma Siddiqui (Research Guide: Prof.H.C.S.Bisht)	2017	365	Field Work and Research Work	18
Studies on the members of <i>Anopheles subpictus</i> Complex in Relations to Malaria Transmission	ICMR-NIMR New Delhi	Ms. Ankita Sindhania (Research guide - Dr. Hmanshu P. Lohani)	2017	2190	Field Work and Research Work	22
To kick-off meeting of the project SUNRAISE: Sustainable Natural Resource Use in Arctic and High Mountainous Areas,	Universitat Bremen	Prof. P. C. Tiwari	2018	3	Research	12
Adaptation Futures 2018	Cape Town, South	Prof. P. C. Tiwari	2018	5	Research	

Invitation for participation a International workshop and regional expert consultation for strenthening mountain agriculture development and food security and nutrition governance for z hunger and poverty reduction under FAQ RAP regional initiative on zero hunger challenge	Food and Agriculture Orgnization of the United Naitions, Thailand	Prof. P. C. Tiwari	2018	2	Research	
to participate as a scientific	Indian Institute of Tropical Meterology, Pune	Prof. P. C. Tiwari	2018	5		6
Development of Climate Smart Agriculture in Uttarakhand	Newcastle University, Newcastle, UK Email: nathan.forsythe@newcastle.ac.uk	Prof. P. C. Tiwari	2018	7	Research	8
Invitation to visit institute of Physics/GAM, University of Graz, Austria	Karl-Franzens-Universitat Graz, University of Graz, Austria	Prof Ramesh Chandra	2018	15	Research	9
Assessment of Risk of High Mountain Urbanization under Climate Change	Yale School of Forestry and Environmental Studies, Yale University Email: karen.seto@yale.edu	Prof. P. C. Tiwari	2019	3	Research	7

Invitation to College of Natural Resources, Royal University of Bhutan, for pilot testing of curriculum as partner University to SUNRAISE project	Royal University of Bhutan, College of Natural Resources Lobesa-Punakha	Prof. P. C. Tiwari	2019	7	Research	13
3rd Asia- Pacific Conference on Plasma Physics	School of Astronomy and Space Science, Nanjing University, China	Prof Ramesh Chandra	2019	6	Invitation to give Seminar to a group of researchers	14
Invitation to visit School of Space Research, Kyung Hee University, Yongin, South Korea	Kyung Hee University, South Korea	Prof Ramesh Chandra	2019	4	Research	10
Eruptive flows and waves in solar atmosphere and their role in space weather	Bulgarian Academy of Sciences	Prof Ramesh Chandra	2019	730	Research	11
Dynamics of solar filament eruptions	Kyung Hee University, South Korea	Prof Ramesh Chandra	2019	7	Research	17
Raman Charpak Fellowship 2019	Centre Franco- Indien Pour La Promotion De La Recherche Avancee (CEFIPRA)	Dr Reetika Joshi	2019	122	Research Fellowship	16
SCOSTEP Visiting Scholarship	Scientific Committee on Solar Terrestrial	Dr Reetika Joshi	2019	7	Visiting Scholarshi	17

Effect of selected herbal food additives on growth & reproduction biology of snow trout, <i>Schizothorax richardsonii</i>	DCFR	Sheetal Sharma (Research Guide: Prof.H.C.S.Bisht)	2019	1825	Field Work and Research Work	19-20
Bionomics of <i>Aedes</i> mosquitoes in urban setups of Delhi NCR Area	ICMR-NIMR New Delhi	Ms. Pooja (Research Guide: Dr. D. K. Arya)	2019	1825	Field Work and Research Work	
The 4th PSTEP International Symposium (PSTEP-4)	Nagoya University, Japan	Prof Ramesh Chandra	2020	8	Invited Lecture and collaborate with research	15
Reproduction Biology & Breeding of dark mahaseer(<i>Naziritor chelynoids</i>) under captive condition in Western Himalayas region of Uttarakhand	DCFR	Dinesh Mohan (Research Guide: Prof.H.C.S.Bisht)	2020	1825	Field Work and Research Work	
Triploidy Induction using pressure shock & comparative growth of triploids & diploids at fry stage in snow trout (<i>Schizothorax richardsonii</i>)	DCFR	Toshiba (Research Guide: Prof.H.C.S.Bisht)	2021	1825	Field Work and Research Work	21

Government of India
Department of Science & Technology
(International Division)

Encl. No. 3

DST/INT/UK/P-118/2014

Date: 20/5/15

ORDER

Subject: Implementation of DST-UKIERI joint Project entitled, "Harnessing climate data and remote sensing products to promote community-led innovation in adaptive natural resource management for improved food security in the changing climate of the Kumaon lesser Himalaya (KLH)" coordinated by **Prof. Prakash C. Tiwari**, Department of Geography, Kumaon University, D.S.B. campus, Government House Road, Tallital Nainital-263001, Uttarakhand with his British counterpart Prof. Hayley J Fowler, Newcastle University, School of Civil Engineering & Geosciences, Cassie Building, Newcastle University, Newcastle upon Tyne, NE17RU, United Kingdom

Sanction of the President is hereby accorded for DST-UKIERI joint Project entitled, "Harnessing climate data and remote sensing products to promote community-led innovation in adaptive natural resource management for improved food security in the changing climate of the Kumaon lesser Himalaya (KLH)" under the MoU with UKIERI at a total cost of **Rs.14,69,600/- (Rupees fourteen lakh sixty nine thousand and six hundred only)** for a period of two years as under:-

Item of Expenditure	Amount		
	First year	Second year	Total
1. Project cost/Consumables	Rs 1,50,000	Rs 1,50,000	Rs 3,00,000
2. Mobility of scientists (three visits each year from Indian and two from UK in first year)			
• For visit of Indian scientists to UK	Rs 2,52,000	Rs 2,52,000	Rs 5,04,000
• For visit of UK Scientists to India	Rs 2,16,000	Rs 2,16,000	Rs 4,32,000
(as calculated below in para 7 below)			
3. Contingency	Rs 50,000	Rs 50,000	Rs 1,00,000
Year wise Cost	Rs 6,68,000	Rs 6,68,000	Rs 13,36,000
Overhead @ 10%	Rs 66,800	Rs 66,800	Rs 1,33,600
Total year wise cost	Rs 7,34,800	Rs 7,34,800	
Total cost	Rs.14,69,600/-		

Sanction of the President is hereby accorded for release of 1st installment **Rs.7,34,800/- (Rupees Seven lakh thirty four thousand eight hundred only)** to Kumaon University, Nainital

3 DDO DST shall draw an amount of **Rs.7,34,800/- (Rupees Seven lakh thirty four thousand eight hundred only)** from PAO DSE and shall arrange to disburse the same by means of electronic transfer (E-transfer) in favour of the Registrar, Kumaon University, Nainital as details given below:-

Account Holders name / designation	Registrar, Kumaon University, Nainital
Name of Bank	State Bank of India
Bank Branch	Nainital
Bank Account Number	10860839291
IFSC Code	SBI0000687
MICR Code	263002068
E-Mail	prtiwari@vsnl.com

4. The expenditure involved is debitable to
- Demand No. 86-Department of Science and Technology
 - Major Head-3425 B-Other Scientific Research
 - 60 others - Minor Head 607981-International Co-operation/S&T Co-operation with other Countries
 - 12 00.31 Grants-in-aid during the current financial year 2015-16 (PLAN)

[Signature]

5. The Project will be coordinated by Prof. Prakash C. Tiwari, Department of Geography Kumaun University, D.S.B. campus, Government House Road, Tallital Nainital-263001, Uttarakhand with his British counterpart Prof. Hayley J Fowler, Newcastle University, School of Civil Engineering & Geosciences, Cassie Building, Newcastle University, Newcastle upon Tyne, NE17RU, United Kingdom and will be presumed to commence from the date of issue of this sanction

6. Prof. Prakash C. Tiwari, Department of Geography Kumaun University, D.S.B. campus, Government House Road, Tallital Nainital-263001, Uttarakhand is required to submit technical progress report periodically (at least once in six months) and a final report at the end of project.

7. As and when required, proposal for a visit under the project should be sent to DST at least six weeks prior to the initiation of the visit. The grant for exchange visit is to be operated subject to the condition that the prior approval of this Department would be obtained on all project related visits to be undertaken by the scientists from either side in connection with the implementation of the project on a case to case basis before any expenditure is incurred in this regard. Break up for proposed expenditure on each exchange visit will be calculated broadly as below:

A/

a) Break up of expenditure on each visit of Indian Scientists visiting collaborative Institute is calculated broadly as below:

1) International Fare Nainital-Newcastle-Nainital	Rs 70,000
By excursion/economy class (cheapest available fare)	
2) Medical Insurance (Silver class)	Rs 4,000
3) Domestic Travel related to visit	Rs 2,000
4) Visa Fee (as per actuals)	Rs 8,000
Total:	Rs 84,000

4. Break up of expenditure on each visit of UK scientists and project staff visiting the Indian collaborative Institute (for an average duration of two weeks).

a. Per diem @ Rs 2500 * 14 days	Rs 35,000
b. Accommodation @ Rs 2500 * 14 days	Rs 35,000
c. Local Transport	Rs 2,000
Total:	Rs 72,000

8. Local hospitality including cost for the stay of Indian scientists in UK for the total duration is to be met by the receiving side as per the provision of MoU between Department of Science & Technology and UK.

9. "The institute will maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitted the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant"

10. It must be ensured that the final statement of expenditure, utilization certificate and project completion report is submitted within one year after the scheduled date of completion of the project.

11. As per MoF instructions, it has been decided that in all cases of air travel, both domestic and international, where the Government of India bears the cost of air passage, the officials concerned may travel only by Air India. For travel to stations not connected by Air India, the officials may travel by Air India to the hub/point closest to their eventual destination, beyond which they may utilize the services of another airline which should also preferable be an alliance partner of Air India

12. No re-appropriation will be allowed from one item/sub head of expenditure to another item sub head of expenditure and copies of claims may be called by DST if required. This sanction order has been issued in current financial year 2015-16 and is valid up to 31-03-16 only. For incurring any expenditure in next financial year (2016-17) PI should apply to DST for carry forward of unspent balance to 2016-17 during April 2016 for seeking carry forward approval/sanction order. Indian Project coordinator should furnish the requisite utilization certificate immediately at the end of the each financial year (ending 31st March) along with the audited statement of expenditure and progress report

13. The account of the grantee institution shall be open to inspection by the sanctioning authority/audit whenever the institution is called upon to do so, as laid down under Rule 211 (i) of General Financial Rules.

14. This issues under the power delegated to this Departments and with the concurrence of the Director IFD vide Dy No.C/913/IFD/2015-16 dated 15/05/2015

15. This sanction order has been noted at Sl. No. ¹³⁵ in Grant register.

16. No UC/SE is due from, Kumaun University, Nainital, against this project



(S.K. Varshney)
Scientist "G"

To,

The Pay & Accounts Officer, Department of Science & Technology, New Delhi-110016

Copy to:

- 1. Principal Director of Audit, AGCR Bldg., IP Estate, New Delhi-110002
- 2. Cash Section (3 copies), DST
- 3. I.F. Division/Accounts Section, DST
- 4. Sanction Folder
- 1. **Prof. Prakash C. Tiwari**, Department of Geography Kumaun University, D.S.B. campus, Government House Road, Tallital Nainital-263001, Uttarakhand
- 2. Registrar, Kumaun University, Nainital-263001, Uttarakhand.
- 3. Finance Officer, Kumaun University, Nainital-263001, Uttarakhand.
- 4. Director, Kumaun University, Nainital-263001, Uttarakhand.
- 5. Project File


(S.K. Varshney)
Scientist "G"



國立中央大學
太空及遙測研究中心
CENTER FOR SPACE AND REMOTE SENSING RESEARCH
NATIONAL CENTRAL UNIVERSITY
NO.300, JHONGDA RD., JHONGLI CITY 320, TAIWAN
TEL: (03) 4257232 FAX: (03) 4255535

To
Dr. Pardeep K. Goswami
Professor of Geology
Department of Geology
Kumaun University
Nainital 263002 Uttarakhand
INDIA

Date: 2015/12/30

Sub: Invitation to visit CSRSR for laboratory investigations pertaining to our joint research work on monitoring of ongoing surface deformations in Uttarakhand Himalaya.

Dear Professor Goswami

Following the recent fieldwork in the study area, we have to process and analyze the available multi-date GPS and Total Station measurements. You are aware that this has to be done collectively by all the collaborating researchers in our laboratory at CSRSR.

I, therefore, request your presence and scientific input during this important phase of the research work and warmly invite you to CSRSR, for at least two weeks, during the coming months of January-February 2016. Please finalize your program as per your convenience and convey it to us as soon as possible. We will make your stay and local transport arrangements and pay you per diem as per the prevailing provisions.

Looking forward to welcome you again in Taiwan,

Yours sincerely

A handwritten signature in black ink, appearing to read '張中白' (Chang Chung-pai).

Professor Chung-Pai Chang
Principal Investigator, Indo-Taiwan Project



國立成功大學工學院測量及空間資訊學系

Department of Geomatics, National Cheng Kung University

Email: jingkuen@mail.ncku.edu.tw

Tel: +886-6-2757575 ext. 63840

Fax: +886-6-2375764

To

Dr. Pardeep K. Goswami
Professor of Geology
Department of Geology
Kumaun University
Nainital 263002 Uttarakhand
INDIA

Sub: Invitation to visit NCKU for discussions and data interpretations pertaining to our joint research work on monitoring of ongoing surface deformations in Uttarakhand Himalaya

Dear Professor Goswami

Following the recent fieldwork with you in Uttarakhand Himalaya, we have to analyze the available multi-date GPS and Total Station measurements. As discussed with you earlier, we have to do this together here at NCKU.

I, therefore, request your presence and scientific input during this important phase of the research work and warmly invite you to NCKU, for at least two weeks, during the months of January-February 2016. Please finalize your program as per your convenience and convey it to us as soon as possible.

We will provide you complete boarding and lodging, as well as local transportation during the period of your stay.

Looking forward to welcome you again in Taiwan,

Yours sincerely

Dr. Kuo-En Ching
Principal Investigator, Indo-Taiwan Project

January 10, 2016



3

國立中央大學
太空及遙測研究中心
CENTER FOR SPACE AND REMOTE SENSING RESEARCH
NATIONAL CENTRAL UNIVERSITY
NO.300, JHONGDA RD., JHONGLI CITY 320, TAIWAN
TEL: (03) 4257232 FAX: (03) 4255535

To
Dr. Pardeep K. Goswami
Professor of Geology
Department of Geology
Kumaun University
Nainital 263002 Uttarakhand
INDIA

Date: 22 August 2016

Sub: Invitation to visit the Center for Space and Remote Sensing Research

Dear Professor Goswami

In order to conduct data interpretation and have academic discussions pertaining to our ongoing and future joint research work, I warmly invite you to our Center for a period of one month during December 2016 – January 2017. Please convey your program to us once you finalize it as per your convenience. We will make your stay and local transport arrangements.

Waiting to welcome you in Taiwan,

Yours sincerely

Chung-Pai Chang

Professor and Director
Center for Space and Remote Sensing Research
National Central University
300, Jhongda Rd., Jhongli, Taoyuan, Taiwan
e-mail: cpchang@csrsr.ncu.edu.tw

No.Int/SAS/2017/52/
December 21, 2016

Professor Santosh Kumar
Professor of Geology
Centre of Advanced Study in Geology,
Kumaun University,
Nainital -262002

Sub: Your Selection to **Slovak Republic** for **03 Weeks** under International Collaboration/Exchange Programme during 2017.

Dear Prof. Kumar,

We wish to inform you that on the recommendations of the Inter-Academy Exchange Committee, the Academy has short listed your name for your visit to above country with 50% travel support. The local hospitality and internal travel will be borne by the host Academy/Organisation in the above country. You are required to send the following documents duly completed:-

1. Form of Proposal (*one hard copy and the other through e.mail*). Please note that the Form of Proposal should reach INSA at least 3 months before your proposed visit.
2. Certificate duly signed by the Head of your Organisation/Institute.

According to the guidelines of the Academy, scientists considered for Selection under the programme are expected to undertake the visit within the calendar year i.e. up to **December 31, 2017** and it is subject to the acceptance by the host Academy/Organisation. We would be happy to receive your acceptance of this offer **within 30 days** of issue of this letter. In case, you are not able to avail this offer please do let us know so that this offer can be transferred to the next person.

Please ensure that the dates indicated by you in your proposal are acceptable to your host and also your parent institute. No request of change of dates will be considered by the Academy.

Kindly acknowledge the receipt.

Yours sincerely,

Brotati Chattopadhyay

(Dr (Mrs) Brotati Chattopadhyay)
Assistant Executive Director (International)

Encl:a/a.

Important Note:

* **Please do not proceed to foreign country until you receive the Final Deputation Letter and Visa Advice from INSA . Without these documents your visit will not be considered under INSA Bilateral Exchange Programme.**

* **Your stay in foreign country should not exceed the period sanctioned by the Academy**

Copy to: The Registrar, Kumaun University, Nainital -262002.



Laboratoire d'Études Spatiales et d'Instrumentation en Astrophysique

Bâtiment 14
5 Place Jules Janssen
92195 MEUDON PRINCIPAL CEDEX

Guillaume Aulanier
Tél : 01 45 07 71 46
Télécopie : 0145 07 79 59
Email : guillaume.aulanier@obspm.fr

Dr. Ramesh Chandra
Department of Physics, DSB Campus,
Kumaun University Nainital -263 002,

Project "Study on the becoming of solar flares into jets or CMEs"

Dear Dr Ramesh Chandra

It is great pleasure to invite you in our laboratory LESIA for one month in January-February 2017.

You will receive one month salary from the Observatoire de Paris. We will provide you an accomodation close to the Observatory in Meudon.

Your research will be on the "Study on the becoming of solar flares into jets or CMEs" using the observations of Nainital, the vector magnetograms of THEMIS as well the space data of "Solar Dynamical Observatory" (SDO).

A new class of events has been discovered in the last years, the so-called blow out jets. These jets are broader than regular jets, and they show torsional motions that trace the propagation of an untwisting Alfven wave. They can directly impact the heliosphere and our terrestrial environment.

In Nainital, you have obtained observations of flares, and jets during important events of the present solar cycle. Your expertise is essential to select the blow-jets. You will compare your observations with SDO and THEMIS data. Our code of magnetic field line extrapolation in the corona and our simulation, the code OHM, will be of great importance for the interpretation of these observations.

Sincerely yours
28 August 2016

Guillaume Aulanier



6

भारतीय उष्णदेशीय मौसम विज्ञान संस्थान
(पृथ्वी विज्ञान मंत्रालय का एक स्वायत्त संस्थान, भारत सरकार के अधीन)
डॉ. होमी भाभा मार्ग, पाषाण पुणे - ४११००८

INDIAN INSTITUTE OF TROPICAL METEOROLOGY
(An Autonomous Institute of the Ministry of Earth Sciences, Government of India)
Dr. Homi Bhabha Road, Pashan, Pune 411 008, India

Phone: +91-20-25904301 • Fax: +91-20-25865142 • <http://tropmet.res.in/> • E-mail: krish@tropmet.res.in

Dr. R. Krishnan, FASc
Executive Director, Centre for Climate Change Research

Date: 30 August 2018

To:
Prof. Prakash C. Tiwari
Professor of Environment and Sustainable Development
Department of Geography
Kumaun University
Nainital-263 001
Uttarakhand

Dear Prof. Prakash C. Tiwari,

It is our great pleasure to extend a cordial invitation to you to participate as a scientific expert in the "Science and Training Workshop on Climate Change over the High Mountains of Asia (HMA)" to be held during 8-12 Oct 2018 at the Indian Institute of Tropical Meteorology (IITM) in Pune, India.

This workshop is being hosted by the Centre for Climate Change Research (CCCR) at IITM and is co-organized by the Monsoon Asia Integrated Research for Sustainability - Future Earth (MAIRS-FE) project office at the Divecha Centre for Climate Change (DCCC), Indian Institute of Science (IISc), Bengaluru.

The overarching goals of this workshop are envisaged towards integrating the regional climate downscaling activities, facilitating cross-fertilization of scientific expertise and engaging the community of Asian scientists for further capacity building pertaining to the HMA. These goals would benefit the development of appropriate inputs for further exploitation of the science-based climate information, with higher-level of confidence using model-based projections and knowledge of regional / local experts, by the Vulnerability, Impact and Adaptation (VIA) community. Further details about the workshop can be found on the webpage at: <http://cccr.tropmet.res.in/home/workshop/oct2018/index.jsp>

We sincerely hope that you will be able to participate as an expert in this workshop and maximize the value of the outcomes through your vast experience and expertise in the climate change adaptation in water, agriculture, and livelihood sectors for the mountainous Himalayas. The CCCR-IITM, Pune is pleased to cover your air travel (economy class), accommodation, meals and local hospitality during the workshop.

We look forward to seeing you at the workshop.

Sincerely,

With best regards,

(R. Krishnan)



Yale University
School of Forestry
& Environmental Studies

KAREN C. SETO
Frederick C. Hixon Professor of
Geography & Urbanization Science
380 Edwards Street
New Haven, CT 06511
Phone: 203-432-9784
FAX: 203-432-5556
<http://urban.yale.edu>

February 20, 2019

Prakash Tiwari, Ph.D.
Professor of Environment and Sustainable Development
Department of Geography, Kumaun University
Nainital-263 001, Uttarakhand, India
Tel:91-5942-237156
Email:pctiwari@yahoo.com/pctiwari@gmail.com

Dear Dr. Tiwari,

As a collaborator on a NASA-funded project, you are invited to attend the Workshop on Mobility, Urbanization and Vulnerability in the Greater Himalaya Mountain Range, to be held at Yale University, New Haven, Connecticut, USA, April 15-17, 2019. The workshop is sponsored by the Yale School of Forestry and Environmental Studies and the Yale MacMillan Center. Your travel to the United States, accommodations, meals and incidentals during the workshop will be paid for the Edward J. and Dorothy Clarke Kempf Memorial Fund at Yale.

This professional and scholarly workshop is aimed to generate scientific understanding of the dynamics between urbanization and vulnerability in the Himalaya region, by inviting and listening to local knowledge holders and experts working in Nepal, India and Bhutan. As an esteemed expert on vulnerability and disasters in the Himalaya, we are delighted to invite you to participate in the workshop.

We look forward to your attendance at the workshop at Yale.

Sincerely,

Karen C. Seto

School of Civil Engineering and Geosciences
Newcastle University
Cassie Building
Newcastle upon Tyne
NE1 7RU United Kingdom

23 November 2018

Professor Prakash Chandra Tiwari
Department of Geography
DSB Campus
Kumaun University
Nainital 263002
Uttarakhand, India

Dear Professor Tiwari,

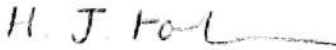
I would like to formally invite you to visit the School of Engineering, Newcastle University, Newcastle, UK as part of the on-going collaboration between the School of Engineering, Newcastle University, UK and the Department of Geography, Kumaun University, Nainital, Uttarakhand, India on the Royal Society-funded project on 'Pluri-scalar Approaches for Co-production of Pan-Asian Drought Assessment and Adaptive Resource Management' (PAPPADAAM), from 20 to 26 January 2019.

During your stay in Newcastle you will make presentation of the progress of the project, participate in scientific exchange of the preliminary findings of project, and involve in consultation for planning future course of action for the implementation of the project.

Newcastle University will cover the cost of your visit, including travel and hospitality (accommodation, per diem etc.), during your stay at Newcastle from the grant received from the Royal Society through its 'Global Challenges' programme.

I hope this invitation would help you in obtaining UK visa for your proposed visits to Newcastle.

Yours sincerely,



Prof. Hayley J. Fowler
Principal Investigator
PAPPADAAM Project

ceg@ncl.ac.uk
www.ncl.ac.uk/ceg
tel: +44 (0) 191 208 6323

Main University Switchboard: +44 (0) 191 208 6000

The University of Newcastle in Law: Tynes trading as Newcastle University



THE QUEEN'S
ANNIVERSARY PRIZES
FOR HIGHER AND FURTHER EDUCATION
2013



Prof. Ramesh Chandra
Dept. of Physics, D.S.B. Campus
Kumaun University
Nainital 263002, Uttarakhand
India

Graz, November 29, 2018

Subject: Invitation to visit Institute of Physics/IGAM, University of Graz, Austria

Dear Prof. Chandra,

I would like to invite you to visit the Institute of Physics/IGAM, University of Graz, Austria for collaborative research work and scientific discussions during January 25 – February 8, 2019. Your visit will be carried out in the framework of Indo-Austrian joint research project entitled "Onset of solar flares and flare-CME associations". The joint research project is funded by the Austrian Federal Ministry of Science, Research and Economy (BMWFW) and Department of Science and Technology (DST) of the Ministry of Science and Technology, Govt. of India (OeAD project no: IN 03/2017; DST project no. INT/AUSTRIA/BMWF/P-05/2017).

The Austrian side of the project will provide you per diem (100 EUR per day) to cover accommodation and living expenses during your stay in Graz.

This project is being jointly led by me (Austrian Principal Investigator) and Dr. Bhuwan Joshi, Udaipur Solar Observatory, Physical Research Laboratory, Udaipur, India (Indian Principal Investigator).

We wish you a pleasant journey to Austria and look forward to seeing you in Graz.

Yours sincerely,

KARL-FRANZENS-UNIVERSITÄT
INSTITUT FÜR PHYSIK,
BEREICH GEOPHYSIK, ASTROPHYSIK
UND METEOROLOGIE

Assoc. Univ.-Prof. Dr. Astrid Veronig A-8010 Graz, Universitätsplatz 5
(Principal Investigator of Indo-Austrian joint project) Austria

Personal details of Prof. Ramesh Chandra

Surname: Chandra
Given name: Ramesh
Sex: Male
Date of birth: 10 June 1974
Place of birth: Almora
Nationality: Indian
Passport no.: K7990354

Assoc. Univ.-Prof. Dr. Astrid Veronig
Head of Kanzelhöhe Observatory for Solar and Environmental Research
Institute of Physics, IGAM
☒ Universitätsplatz 5/II, 8010 Graz, Austria

Tel.: +43 (0) 316 / 380-8609
Fax +43 (0) 316 / 380-9825
E-Mail: astrid.veronig@uni-graz.at
<http://uni-graz.at/~veronig>

Invitation Letter

Prof. Ramesh Chandra
Department of Physics
Kumaun University, Nainital
India

Date of Birth: 10 April, 1974
Place of Birth: Kumharti, Uttarakhand, India
Passport No.: K7990354
Place of Issue: Dehradun
Date of Issue: 09/08/2012
Date of Expiry: 08/08/2022

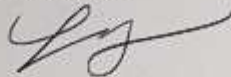
26 November, 2019

Dear Prof. Ramesh Chandra,

We are please to invite you to visit the School of Space Research, Kyung Hee University, Yongin, Gyeonggi-Do, South Korea during 13-17 January, 2020 for the collaborative research work at our university. During your stay you will work with me and my colleagues on the kinematics and dynamics of the solar filament eruptions and deliver a seminar in our group.

We will cover your travel from India-South Korea and back and will provide accommodation, local expenses during your stay at Kyung Hee University.

Sincerely yours,



Professor Y. -J. Moon
School of Space Research
Kyung Hee University
Yongin, Gyeonggi-Do, South Korea
Phone no: +82-31-201-3807
Email: moonyj@khu.ac.kr

College of Applied Science



Kyung Hee University

1, Seochun-dong, Gihung-gu, Yongin-si, Gyeonggi-do, 446-701, Republic of Korea
Tel. +82-31-201-3801~2 Fax. +82-31-204-8122
<http://applsci.khu.ac.kr>

No. DST/INT/BLR/P-11/2019
 Government of India
 Ministry of Science and Technology
 Department of Science & Technology
 (International Bilateral Cooperation Division)

**Technology Bhawan,
 New Mehraulli Road
 New Delhi-110016
 Date :- 17.09.2019**

ORDER

Subject: Implementation of Indo-Bulgaria Joint project entitled: **“Eruptions flows and waves in solar atmosphere and their role in space weather”** coordinated by Dr. Ramesh Chandra with the Bulgaria partner Dr. Kostadinka Koleva regarding.

Sanction of the President is hereby accorded for incurring an expenditure not exceeding **Rs. 11,82,350/- (Rupees Eleven Lakh Eighty Two Thousands Three Hundred fifty)** for implementation of the Indo-Bulgaria joint project entitled **“Eruptions flows and waves in solar atmosphere and their role in space weather ”** coordinated by Dr. Ramesh Chandra, Associate Professor, Department of Physics, DSB Campus, Nainital 263002, India with the Dr. Kostadinka Koleva, Senior Assist. Professor, Institute of Astronomy with NAO, Bulgarian Academy of Sciences, Bulgaria for a total duration of two years from the date of issue of the Sanction Order. The detailed breakup of the grant for General as well as Capital Components are given below:-

General Component : Rs. **11,82,350/-**
 Capital Component : Rs. ___N.A. ___

S. No.	Budget Head	1 st Year (Rs.)	2 nd Year (Rs.)	Total (Rs.)
1.	Number of visits (02 per year) one of up to 21 days by PI/ CO-PI 2500*21 = one of up to 03 months from Bulgarian side by student/ young researcher PI/Co PI 50000/ month * 03	52,500 1,50,000	52,500 1,50,000	1,05,000 3,00,000
	Accommodation	1,00,000	1,00,000	2,00,000
2.	Air Travel* International travel by shortest route by lowest economy class (to and fro) for visit of Indian participants to Bulgaria including silver class medical insurance, VISA fee and domestic travel in	2,00,000	2,00,000	4,00,000

Dr. Ramesh

	India (02 persons)			
	(*as per actual)			
3.	Contingency	50,000	50,000	1,00,000
4.	Total	5,52,500	5,52,500	11,05,000
5.	Overhead @ 7%	38,675	38,675	77,350
6.	Grand total	591,175	591,175	11,82,350

2. Under the existing terms and conditions of the PoC, sending side cover international travel expenses to the state of the receiving country. The receiving side will make local logistic arrangements including local travel and stay arrangements (halt expenses, per diem etc.) in the country visited. The break-up of approved expenditure is as indicated below:

3. Sanction of the President is hereby accorded for release of 1st installment amounting to **Rs 591,175- (Rupees Five Lakhs Ninety One Thousands One Hundred Seventy five)** to the Department of Physics, DSB Campus, Nainital India payment of this amount may be made by DDO, DST by means of electronically transfer to the following a/c as per Bank details given below:

1	Account Holders name/ designation	Kumaun University, Nanital
2	Name of Bank and Address	State Bank of India, Nainital, The Mallital, Nainital
3	Bank Account Number	10860839791
4	IFSC Code	SBIN0000687

Condition for placing of grant amount:

4. The institute will maintain separate audited account for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the (financial year wise) Statement of Expenditure/Utilization Certificate. **As per Financial Rule 230 (8), "All interests or other earnings against Grants-in-aid or advances (other than reimbursement) released to any grantee institution should be mandatorily remitted to the Consolidated Fund of India immediately after finalization of the accounts. Such advances should not be allowed to be adjusted against future releases".**

Conditions for submission of SE/UC and Progress report:

5. (a) The grantee organisation will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission

of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

(b) While submitting Utilisation Certificate/Statement of Expenditure, the organisation has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent

release of grants under the project shall be considered only on receipt of the said documents.

- (c) A transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/ Organisation under the appropriate rules of the grantee organisation while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organisation immediately on receipt of the grant;

6. The grantee organisation will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

7. In the event grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.

Conditions of Assets (if any) :

8. (a) DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
- (b) The equipment/instrument shall have to be purchased within twelve months from the date of release of the capital grant. Fresh permission shall have to be sought from DST, in the event, the Institute fails to purchase the equipment/instrument within the prescribed period of twelve months from the date of release of sanctioned amount.

Conditions for International Visits :

9. All project related visits to be undertaken by the Scientists from either side in connection with the implementation of the project shall require prior approval from this Department separately on a case to case basis before any expenditure is incurred in this regard.

10. As per MoF instructions, it has been decided that in all cases of air travel, both domestic and international, where the Government of India bears the cost of air passage, the officials concerned may travel only by Air India. For travel to stations not connected by Air India, the officials may travel by Air India to the hub/point closest to their eventual destination, beyond which they may utilize the services of another airline which should also preferable be an alliance partner of Air India.

Other Conditions:

11. The account of the grantee organisation shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organisation is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.

12. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organisation in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

[Handwritten signature]

13. In case the scheme provides for payment of honorarium / remuneration / fellowship / scholarship to the PI, a para may suitably be incorporated in the DSO to the effect that "PI is not drawing any emoluments/ salary/fellowship from any other project either supported by DST or by any other funding agency.

14. As per the GFR 2017 Rule 230 (8) the Grantee Institute should ensure that all the interests or other earnings against Grant-in-Aid or advances (other than reimbursement) released to any Grantee institution should be mandatorily remitted to the Consolidated Fund of India (through Non- Tax Receipt Portal (NTRP), i.e www. Bharatkhoosh.gov.in) immediately after finalisation of the accounts, as it shall not be adjusted towards future release of Grant. A certificate to the effect shall have to be submitted along with Statement of Expenditure / Utilisation Certificate for considering subsequent release of Grant Closure of Project account.

15. GI should also follow Rule 230 (17) of GFR, 2017 concerning reservation of SC/ST/OBC, if applicable.

16. Goods (consumable/equipments) available in Government eMarket (GeM) Portal are to be procured mandatorily online through GeM only.

17. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.


18. The expenditure involved is debitable to **Demand No.86**, Department of Science & Technology for the financial year **2019-20**:

3425	:	Other Scientific Research (Major Head)
60	:	Others
60.798	:	International Cooperation (Minor Head)
14	:	Research & Development
14.00.31	:	Grants-in-aid General for the year 2019-20
		(Previous : ICD-3425.60.798.12.00.31)

19 This sanction order being 1st instalment for implementation of this project, no SE/UC is due from the grantee institution against this project.

20. This issues with the concurrence of IFD, vide their Diary No. **/IFD 2019-20**
Date

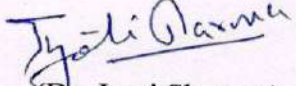
21. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. **3077**. in the register of grants maintained in the Division.


(Dr. Jyoti Sharma)
Scientist E (IBCD)

The Pay & Accounts Officer,

Department of Science & Technology

1. Office of the Principal Director & Audit IIIrd Floor, AGCR Bldg., IP Estate, New Delhi
2. Cash Section (3 copies) DST
3. I.F Division/ Accounts Section, DST
4. Sanction folder
5. Project file
6. Dr. Ramesh Chandra Associate Professor, Department of Physics, DSB Campus, Nainital 263002, India
7. Finance Officer, Kumaun University, Nanital


(Dr. Jyoti Sharma)
Scientist E (IBCD)

Universität Bremen · Fachbereich 3 · Postfach 33 04 40 · 28334 Bremen

Prakash C. Tiwari
Professor of Environment and Sustainable
Development
Department of Geography
Kumaun University, Nainital-263 001,
Uttarakhand, Ind

Dr. Jun Zhao
SUNRAISE Coordinator

Bibliothekstr.
28359 Bremen

Phone +49(0)421 218 - 61401
Fax +49(0)421 218 - 98 61401
E-Mail zhaoj@escienceuni-bremen.de

Ihr Zeichen:

Ihre Nachricht vom:

Unser Zeichen:

Datum: 15.01.2018

Invitation

Dear Prakash C. Tiwari,

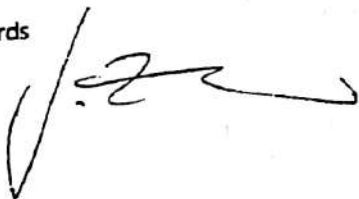
we are glad to invite you to the kick-off meeting of the project SUNRAISE: **Sustainable Natural Resource Use in Arctic and High Mountainous Areas, Project-No.: 586335-EPP-1-2017-1-DE-EPPKA2-CBHE-JP (2017-3138/001-001)**
(Erasmus+/ Key Action 2 - Capacity building in the field of higher education).

All expenses to be incurred (travel costs and costs of stay) will be covered from project budget, according the rules of the use of the grant.

The meeting will be organized from 15.02. - 17.02.2018 in University of Bremen.
The exact addressee of the meeting room and the final Agenda we will send you later.

Best regards

Jun Zhao





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འདུའཕུང་འཕེན་བསྐྱད་མཐོ་རིམ་སློབ་ཁྲུལ།



Royal University of Bhutan
College of Natural Resources
Lobesa - Punakha

Ref: CNR/PLG-03/2019/59

Date: 19 July 2019

Professor Prakash C. Tiwari
Professor of Geography
DSB Campus
Kumaun University
Nainital, Uttarakhand, India

Sub: Invitation to College of Natural Resources, Royal University of Bhutan, for pilot testing of curriculum as partner University to SUNRAISE project.

Dear Professor Tiwari,

The College of Natural Resources (CNR), Royal University of Bhutan, will be organizing the workshop on pilot testing of curriculum for higher education from August 12, 2019 to August 18 2019. The workshop is a part of the SUNRAISE activities and its aim is to enhance the existing curriculum for collaboration in teaching and research among the SUNRAISE project partner Universities. In this regard, as a project partner, CNR would like to invite you to the workshop on the above subject.

All the expenses including food, accommodation and travel would be covered from SUNRAISE project fund allocated to your esteemed University. Also Please note that CNR does not provide insurance services and this is the responsibility of all the visitors to have a comprehensive travel insurance including medical cover.

In case you need any assistance, or in case of emergency, while in Bhutan and also before travelling to Bhutan, you are advised to contact Dr. Om Katel, Dean, Research and Industrial Linkages OR Mr. Lobzang Penjor, Research & Liaison Officer, (Mobile no: 17537932; email id: loppsn@gmail.com).

I on behalf of the management would like welcome you to Bhutan.

Sincerely

(Dr. Phub Dorji)
President

Phone: PABX +9 753 6249, Fax-3 6254, DKIL-3 6250, DAA-3 6251, DSA-3 6252, FO-3 66253 & President-376255. Email: phubdorji.cnr@rub.edu.bt

उप कुलसचिव
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 རང་འབྲུང་འཕྲོན་བསྐྱེད་མཚོ་རིམ་སློབ་གྲྭ།
 Royal University of Bhutan
 College of Natural Resources
 Lobesa - Punakha



550

Ref: CNR/PLG-03/2019/59

Date: 19 July 2019

Professor Prakash C. Tiwari
 Professor of Geography
 DSB Campus
 Kumaun University
 Nainital, Uttarakhand, India

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I on behalf of the management would like welcome you to Bhutan.

Sincerely

(Dr. Phub Dorji)
 President

Phone: PABX +975-3/6249, Fax-3/6254, DRIL-3/6250, DAA-3/6251, DSA-3/6252, FO-3/66253 & President-376255. Email: phubdorji.cnr@rub.edu.bt

ཕུག་ལུ་འབྲུག་རྒྱལ་འཛིན་གཙུག་ལག་སློབ་མེ
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 རྒྱལ་འཛིན་གཙུག་ལག་སློབ་མེ
 རང་འབྲུང་འཕྲོན་བསྐྱེད་མཚོ་རིམ་སློབ་གྲྭ།



School of Astronomy & Space Science

Nanjing University
Nanjing 210023
China

14

南京大學

Add. 163 Xianlin Ave., Nanjing
Tel: +86-25-83592363
Fax: +86-25-83235192

Invitation Letter

Dr. Ramesh Chandra
Department of Physics, DSB campus
Kumaun University, Nainital
India

Date Of Birth: 10 April, 1974
Place of Birth: Kumharti, Uttarakhand, India
Passport No.: K7990354
Place of Issue: Dehradun
Date of Issue: 09/08/2012
Date of Expiry: 08/08/2022

September 16, 2019

Dear Dr. Chandra,

We are pleased to invite you to visit the School of Astronomy & Space Science, Nanjing University, China from November 8-13, 2019 after you attend the 3rd Asia-Pacific Conference on Plasma Physics. You are invited to give a seminar in my group and to carry on our collaborative research. I will cover your local expenses in Nanjing and will provide accommodation for you during your stay in Nanjing.

Sincerely yours,

P. F. Chen 陳鵬飛

Professor, Dr. P. F. Chen
School of Astronomy and Space Science
Nanjing University, Nanjing 210023
China
Tel. +86-25-83592363
Fax. +86-25-83235192
Email: chenpf@nju.edu.cn



Institute for Space-Earth Environmental Research (ISEE)

NAGOYA UNIVERSITY

F3-3(250)Furo-cho,
Chikusa-ku, Nagoya 464-8601, Japan

TEL : 81 - 52 - 747-6337
Fax : 81 - 52 - 747-6334
<http://www.isee.nagoya-u.ac.jp>

Dr. Ramesh Chandra
Kumaun University
DSB Campus Kumaun University, Nainital, INDIA

10th December, 2019

Invitation

Dear Dr. Ramesh Chandra,

I am glad to invite you to visit Nagoya University to present an invited lecture on The 4th PSTEP International Symposium (PSTEP-4) and to meet with Prof. Mausda as a collaborate researcher from January 22 to 30, 2020 . I believe that your expertise and contributions to the symposium will benefit both Japan and India.

Our institute (The Institute for Space-Earth Environmental Research; ISEE) supports your accommodation fee and per diem during your stay at Nagoya.

We are looking forward to seeing you at Nagoya.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'Kanya Kusano', with a long horizontal flourish extending to the right.

Kanya Kusano
Director & Professor
Institute for Space-Earth Environmental Research (ISEE),
Nagoya University
Fro-cho, Chikusa-ku, Nagoya, 464-8601, Japan
kusano@nagoya-u.jp



CEFIPRA

Dr. Purnima Rupal
Director

16

INDO FRENCH CENTRE FOR THE PROMOTION OF ADVANCED RESEARCH
(IFCPAR)
CENTRE FRANCO-INDIEN POUR LA PROMOTION DE LA RECHERCHE AVANCÉE
(CEFIPRA)

No. IFC//4132/RCF 2019 1719
21 October, 2019

Sub: Award of Raman-Charpak Fellowship-2019

Dear Ms. Joshi,

I am happy to inform you that you have been awarded the **Raman-Charpak Fellowship-2019** and your approved duration of visit will be for **4 months**. The fellowship amount of Euros 1500 per month through Campus France will cover the following:

1. Boarding and Lodging
2. Local Travel Expenses
3. Any other incidental expenses/ utility expenses/ miscellaneous expenses, etc.

Please note that the fellowship for first month will be provided to you in advance before your departure and rest will be processed by CEFIPRA to be paid through Campus France. Additionally, we will also provide you the following:-

- a) To and fro air tickets by excursion fare (International travel) plus the local travel expenses to the nearest international airport (within city) by shortest route (to be booked by CEFIPRA, after confirmation from you). Please note that if tickets once booked are cancelled, then the cancellation charges are to be borne by you.
- b) Insurance coverage (travel and health) wherever required
- c) Administrative costs for visa gratis, if any
- d) Carte de Sejour ,if any
- e) Additional support up to Euro 500 for participating in a Seminar/Workshop during term of the fellowship and stay in host country. The same will be limited to registration fees (if any) b) Bus/Train tickets for travel including (if any) c) accommodation charges (if any). **The reimbursement of such claim will be provided on actual receipts, proof of participation/acceptance of paper and after the completion of fellowship duration (at the time of TA/DA settlement). Please take PRIOR APPROVAL from CEFIPRA before applying to any Seminar/Workshop.**

I would like to advise you to get in touch with your host supervisor in France and convey your travel / work plan to us at the earliest for further action at our end. Please note that a request for increase/decrease of duration (maximum 30 days) other than the approved duration may be considered before the starting of the fellowship with a proper justification for such request along with the recommendation letters from your Ph.D. & host supervisors. For visa, you can apply to the French Embassy/ Consulate in your region. We will send a recommendation letter for the issuance of gratis visa, once we receive your letter of acceptance and the details of information sought by us along with photocopy of your passport. You can submit it along with your visa application and invitation letter. The application for French visa should be submitted to the French Embassy/Consulate at least 30 days before the date of your departure. **You are requested to confirm acceptance to this offer along with a tentative travel itinerary based on your approved duration latest by 31October, 2019.**

With best wishes,

Yours sincerely,

(Purnima Rupal)

Ms. Reetika Joshi
Department of Physics, DSB Campus,
Kumaun University, Nainital Pincode: 263002

SCIENTIFIC COMMITTEE ON SOLAR-TERRESTRIAL PHYSICS

President:
 Dr. Nat Gopalswamy
 Solar Physics Laboratory, Code 671
 Heliophysics Division
 NASA Goddard Space Flight Center
 Greenbelt MD 20771
 USA

Vice-President:
 Prof. Dr. Franz-Josef Lübken
 Leibniz Institute of Atmospheric Physics
 Schloss-Str. 6
 18225 Kühlungsborn
 Germany

Scientific Secretary:
 Prof. Marianna Shepherd
 CRESS, York University
 4700 Keele St
 Toronto, ON M3J 1P3
 Canada

Ms Reetika Joshi
 Department of Physics, DSB Campus,
 Kumaun University
 Nainital - 263 002
 INDIA

May 20, 2019

Dear Ms Joshi,

As I first informed you on May 9, 2019 your application for the 2019 SCOSTEP Visiting Scholarship (SVS) has been successful. *Congratulations!*

Please kindly contact your SVS host institution (CAS Key Laboratory of Geospace Environment) for further arrangements. I hereby confirm that as part of your scholarship *SCOSTEP will provide travel support (airfare) at the level indicated in your SVS application.* The travel support will also include transport to and from the airport. You will be reimbursed after a proof of a purchased ticket. Please do not purchase a non-refundable ticket.

Should you have any questions please do not hesitate to let me know.

Once again, Congratulations!

Wish you all the best,



Marianna Shepherd
 SCOSTEP Scientific Secretary

President
 nat.gopalswamy@nasa.gov
 Tel: +1 301 286 5885
 Mobile: +1 301 395 6711
 Fax: +1 301 286 7194

Vice President
 luebken@iap-kborn.de
 Tel: +49 38293 680
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Scientific Secretary
 mshepher@yorku.ca
 Tel: +1 416 736 2100 ext 33828
 Mobile: +1 647 236 8382
 Fax: +1 416 736 5626

Invitation Letter

Prof. Ramesh Chandra
Department of Physics
Kumaun University, Nainital
India

Date of Birth: 10 April, 1974
Place of Birth: Kumharti, Uttarakhand, India
Passport No.: K7990354
Place of Issue: Dehradun
Date of Issue: 09/08/2012
Date of Expiry: 08/08/2022

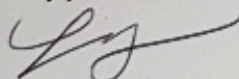
26 November, 2019

Dear Prof. Ramesh Chandra,

We are please to invite you to visit the School of Space Research, Kyung Hee University, Yongin, Gyeonggi-Do, South Korea during 13-17 January, 2020 for the collaborative research work at our university. During your stay you will work with me and my colleagues on the kinematics and dynamics of the solar filament eruptions and deliver a seminar in our group.

We will cover your travel from India-South Korea and back and will provide accommodation, local expenses during your stay at Kyung Hee University.

Sincerely yours,



Professor Y. -J. Moon
School of Space Research
Kyung Hee University
Yongin, Gyeonggi-Do, South Korea
Phone no: +82-31-201-3807
Email: moonyj@khu.ac.kr

College of Applied Science



Kyung Hee University

1, Seochun-dong, Gihung-gu, Yongin-si, Gyeonggi-do, 446-701, Republic of Korea
Tel. +82-31-201-3801~2 Fax. +82-31-204-8122
<http://applsci.khu.ac.kr>

**MEMORANDUM OF UNDERSTANDING
BETWEEN
KUMAUN UNIVERSITY, NAINITAL
AND
ICAR-DIRECTORATE OF COLDWATER FISHERIES RESEARCH, BHIMTAL**

CL.1 THE MoU

CL.1.1 THIS MoU made and entered into on 27 day of July, 2018 between **ICAR-Directorate of Coldwater Fisheries Research, Bhimtal, a non-profit organization, supported by Indian Council of Agricultural Research** having its registered office at **Bhimtal** (hereinafter called **ICAR-DCFR** which expression shall where the context so admits include its successors and permitted assigns) of the one part,

And

CL.1.2 KUMAUN UNIVERSITY, NAINITAL, was established in 1973 under the UP State Act, having it's office at Kumaun University, Nainital Uttarakhand – 263001 (hereinafter called the KUMAUN UNIVERSITY (KUN) which expression shall where the context so admits include its successors and permitted assigns) of the other part.

PREAMBLE:

The Department of Science and Technology Govt. of India and the University Grants Commission have realized the need for a close linkage between the National Laboratories and the Universities in terms of research and academic activities. In compliance to this idea, Kumaun University, Nainital (KUN) and **ICAR-DCFR** have decided to sign a Memorandum of Understanding (MoU) as per the following terms and conditions:

I. GENERAL

*File Recd
14/9/18*
I.1 The scientist of **ICAR-DCFR** may participate in the teaching programme in the different department such as **Biotechnology, Microbiology, Zoology** of the Kumaun University on request and subject to mutual convenience.

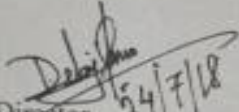
I.2 The scientist of **ICAR-DCFR** and the faculty members of KUN will work towards joint research projects thereby mutually using research facilities developed/to be developed at **ICAR-DCFR** and KUN.


I.3 KUN will recognize and accept scientists of **ICAR-DCFR** for supervising research leading to Ph.D. degree as per ordinance of Ph.D degree of KUN. (KUN has already recognized, ICAR-DCFR as a Research Centre vide letter no. Sodh/43/Life Science dated 16-01-2006).

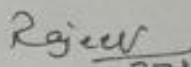
3.3. Article-V AMENDMENTS: The parties may by mutual consent in writing modify and provisions of this MoU.

3.4. Article -VI EFFECTIVITY: This MoU shall take effect on the date the last authorized representative affixes his /her signature and shall remain valid for five (5) year unless sooner terminated when one of the parties notifies the other in writing of its intention to terminate the MoU, in which case, the MoU will terminate six months from the date of such notification. This MoU may be further renewed or extended upon mutual agreement between the parties, which shall be made not later than six months prior to the termination date.

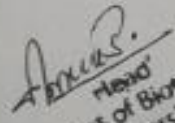
Signed this day of..... 27-07-2018, 2018 at Kumaun University, Nainital.


Director
ICAR-DCFR
भारतीय कृषि अनुसंधान परिषद (ICAR)
कृषि विज्ञान केंद्र (ICAR-DCFR)
ICAR-DCFR, Nainital
ICAR-DCFR will come into force from the date of approval of the draft both by the


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Director-SRICC
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Nainital
Sponsored Research And Industrial
Consultancy Cell
Kumaun University, NAINITAL

Executive Council of Kumaun University, Nainital and technical committee of the
ICAR-DCFR.


Head
Department of Biotechnology
Kumaun University Campus
Nainital-263176 (India)

*Hematological profile and its relation to age, sex, health status and
sexual maturity of snow trout Schizothorax richardsonii*

Thesis

SUBMITTED TO
KUMAUN UNIVERSITY
NAINITAL
FOR THE DEGREE
OF
Doctor of Philosophy
in
ZOOLOGY

By

UZMA SIDDIQUI

**Department of Zoology, D. S. B. Campus
Kumaun University, Nainital**

Under the Supervision of

Supervisor:

Dr. H. C. S. Bisht

H.O.D

Department of Zoology

D.S.B. Campus

Kumaun University

Nainital (Uttarakhand)

Co-Supervisor:

Dr. N. N. Pandey

Principal Scientist

Directorate of Coldwater

Fisheries Research (ICAR)

Bhimtal - 263 136

Nainital (Uttarakhand)

2019



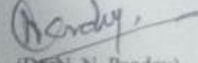
19 भा.कृ.अनु.प.- शीतजल मात्स्यकी अनुसंधान निदेशालय
ICAR- Directorate of Coldwater Fisheries Research



CERTIFICATE

This is to certify that the thesis entitled "Effect of selected herbal feed additives on growth and reproductive biology of snow trout, *Schizothorax richardsonii*" being submitted to Kumaun University, Nainital (Uttarakhand) for the award of Doctor of Philosophy (Ph.D) degree in Zoology, embodies the original work carried out by Miss. Sheetal Sharma. Part of this thesis work was carried out at Directorate of Coldwater Fisheries Research (ICAR), Bhimtal, Nainital under my co-supervision and guidance.

Date: 6-11-2023


(D. N. N. Pandey)
Principal Scientist

उत्पादन विभाग, शीतजल मत्स्यकी अनुसंधान निदेशालय
ICAR-अनु.प. शीत - नैनीताल, उत्तरांचल
Sanandhan Bhowan, Industrial Area
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DEPARTMENT OF ZOOLOGY

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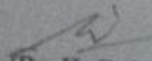
Dr. H. C. S. Bisht
Professor and Head
DSB Campus, Kumaun University
Nainital-263002

To whom it may concern

This is to certify that the thesis entitled "Effect of selected herbal feed additives on growth and reproductive biology of snow trout, *Schizothorax richardsoni*" being submitted to Kumaun University, Nainital (Uttarakhand) for the award of Doctor of Philosophy (Ph.D.) degree in Zoology, embodies the original work carried out by Miss Sheetal Sharma. She worked for more than two years on the above topic at Department of Zoology, D. S. B. Campus, Nainital under my supervision and part of this thesis work was carried out at ICAR-Directorate of Cold water Fisheries Research, Bhimtal, Nainital, under the co-supervision of Dr. N.N. Pandey, Principal Scientist, ICAR-DCFR, Bhimtal.

It is further certified that the research work presented in this thesis is in accordance with the synopsis approved by Research Degree Committee.

Date: 6.11.2023


(Dr. H. C. S. Bisht)
Professor & Head
Department of Zoology
Kumaun University
Nainital - 263002

21



ICAR- DIRECTORATE OF COLDWATER FISHERIES RESEARCH

(Indian Council of Agricultural Research)
Bhimtal-263136, Distt. Nainital (Uttarakhand)
Email: dcfrin@rediffmail.com, dcfrin@gmail.com,
Website: www.dcfrr.res.in



F. No. DCFR/PME-6 Ph.D/2012-13

Dated: 17/04/2021

From,

Dr. N.N. Pandey
Principal Scientist &
I/C PME Cell.

To,

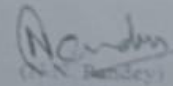
Prof. H.C.S. Bisht,
Professor & Head,
Department of Zoology D.S.B. Campus
Kumaon University, Nainital-263002.

Dear Sir,

The competent authority of this Directorate has permitted Ms. Toshiba of your University to undertake Ph.D research work under the Co-supervision of Dr. N.N. Pandey, PS. The topic of the research would be finalized as per suggestion from supervisor.

With regards,

Yours sincerely,


(N.N. Pandey) 17/4/2021
I/C PME

Copy to:

1. Dr. N.N. Pandey, PS, ICAR-DCFR Bhimtal.
2. Ms. Toshiba, D.S.B. Campus, Kumaon University, Nainital-263002.



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Sponsored Research and Industrial Consultancy Cell(SRICC)
Office: 05942-235213, Fax: 05942 -235213, E-mail: sriccku@gmail.com

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सेवा में,

- 1- परिसर निदेशक
डी0एस0बी0 परिसर, नैनीताल/
एस0एस0जे0 परिसर अल्मोडा
- 2- समस्त प्राचार्य
सम्बद्ध कुमाऊँ विश्वविद्यालय
नैनीताल

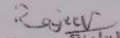
महोदय/महोदया,

एसआरआईसीसी, कुमाऊँ विश्वविद्यालय, नैनीताल द्वारा विश्वविद्यालय के शोध छात्रों के हित में निम्नलिखित शोध संस्थानों से Memorandum of Understanding (MOU) किये गये हैं जिनका विश्वविद्यालय कार्यपरिषद् की 138वीं बैठक दिनांक 22 अक्टूबर, 2018 (सोमवार) को अनुमोदन किया गया है।

- (i) Uttarakhand Space Application Centre (USAC), 131, Phase-2, Vasant Vihar, Dehradun, Pincode - 248 006.
- (ii) ONGC Videsh Limited, Deendayal Urja Bhawan, Tower-B, Plot No. 5A-5B, Nelson Mandela Marg, Vasant Kunj, New Delhi 110070 (ONGC Videsh).
- (iii) CSIR - National Botanical Research Institute (Council of Scientific & Industrial Research) Rana Pratap Marg, P.B. No. 436, Lucknow - 226 001 (India).
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- (ix) National Institute of Malaria Research (Indian Council of Medical Research) Ministry of Health & Family Welfare, Sector-8, Dwarka, New Delhi-110077.
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- (xiii) Indian Institute of Technology, Hauz Khas, New Delhi 110016.
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- (xv) Birbal Sahni Institute of Palaeosciences, Lucknow-226007
- (xvi) National Bureau of Plant Genetic Resources (Indian Council of Agricultural Research) Regional Station, Bhowali-263132(Nainital).
- (xvii) Regional Ayurveda Research Institute, Thapla, Ranikhet (RARI).

सूचनाार्थ प्रेषित। उपर्युक्त को कुमाऊँ विश्वविद्यालय नैनीताल की वेबसाइट www.kunainital.ac.in के लिंक Sponsored Research & Industrial Consultancy Cell(SRICC) में देखा एवं download किया जा सकता है।

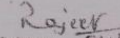
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2- निजी सचिव कुलपति को माननीय कुलपति जी के सूचनाार्थ प्रेषित।


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दिनांक - 25 नवम्बर, 2018

सेवा में

- 1- परिसर निदेशक
डी0एस0बी0 परिसर, नैनीताल/
एस0एस0जे0 परिसर अल्मोडा
- 2- समस्त प्राचार्य •
सम्बद्ध कुमाऊँ विश्वविद्यालय
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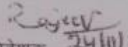
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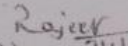
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DEPARTMENT OF ZOOLOGY

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NAINITAL - 163002
INDIA
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22

CERTIFICATE

I hereby certify that the work which is being presented in the thesis entitled "**Studies on the members of *Anopheles subpictus* complex in relation to malaria transmission**" for the award of the Degree of Doctor of Philosophy in Zoology and submitted in the Department of Zoology, Kumaun University, Nainital, is an authentic record of my own work carried out during a period from July 2017 to December 2022 under the supervision of Dr. Himanshu P. Lohani, Assistant Professor, Department of Zoology, D.S.B Campus, Kumaun University, Nainital and Dr. O.P. Singh, Scientist G., National Institute of Malaria Research, New Delhi.

The matter presented in this thesis has not been submitted by me for the award of any other degree of this or any other University/Institution.

Ankita Sindhania
(Ankita Sindhania)

This is to certify that the candidate has put more than 200 days attendance during the course of her Ph.D. thesis under our supervision and the above statement made by her is correct to the best of our knowledge.

(Dr. Himanshu P. Lohani)
Assistant Professor
Department of Zoology,
Kumaun University, Nainital

(Dr. O.P. Singh)
Ex-Scientist G
ICMR-National Institute of Malaria Research,
New Delhi

Dr. Himanshu P. Lohani
Assistant Professor
Department of Zoology
D.S.B. Campus
Kumaun University
Nainital (Uttarakhand) India

It's pleasure for me to forward the thesis of Ms. Ankita Sindhania

(Prof. Satpal Singh Bisht)
(Convener)

Date: 12-01-2023

