

**3.2.1 & 3.2.2 Number of research projects per teacher funded by government, non-government, industry, corporate houses, international bodies during the last five years**

<b>S. No</b>	<b>Name of the PI/ Co-PI/Name of the person holding the Chair</b>	<b>Title of the research project, endowments, Research Chairs</b>	<b>Name of the funding agency</b>	<b>Duration (years)</b>	<b>Year of award or sanction</b>	<b>Amount in INR.</b>
1.	Prof. Gh. Jeelani	Geochemical and isotopic study of Dal Lake: implications for eutrophication	BRNS-DAE	3	2019	624575
2.	Prof. Bikram S Bali	Status of Strain rate and its Spatial Variation in Kashmir Himalaya using Geodetic data	MoES	3	2024	2987280
3.	Prof. Gh. Jeelani	Permafrost mapping and characterisation of Ladakh Region	NMHS-MOEFFC	3	2020	4007120
4.	Prof. Gh. Jeelani	Slope stability Assessment of road cuts along Jammu-Srinagar National Highway	JKDST	2	2021	849000
5.	Dr. Reyaz A Dar	Phytoliths as quantitative indicators for the reconstruction of past environmental conditions in Kashmir Himalayas, India	MOES	3	2020	6550430
6	Prof. Gh. Jeelani	Storage, transport and chemical evolution of infiltrating water in	SERB-DST	3	2024	21065680

		critical zone (CZ), western Himalaya				
7.	Dr Sarah PI/Dr Reyaz Co-PI	Role of extreme weather patterns in shaping Vadose zone hydrology	SERB- DST	3	2024	6550000



Government of India  
Department of Atomic Energy (DAE)  
Board of Research in Nuclear Sciences (BRNS)

Dr. S.Dutta  
Programme Officer (RTAC)

BRNS Secretariat, 1st Floor,  
CC, BARC, Trombay,  
Mumbai-400085 Phone:  
+91-2225595331  
Email: dsubrata@barc.gov.in

No: 35/14/19/2017-BRNS/35146

Date: 04/09/2017

**OFFICE MEMORANDUM**

Sub: R/P entitled "Geochemical and isotopic study of Dal Lake: Implications for eutrophication" under Dr. Gh. Jeelani, Department of Earth Sciences, Registrar, University of Kashmir, Srinagar, Jammu & Kashmir, 190006. bearing sanction 35/14/19/2017-BRNS with RTAC, BRNS.

On the recommendations of the Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval and sanction of the President of India for the captioned project for 3 years beginning from financial year 2017-2018 with a total grant of Rs. 30,56,650/- (Rupees thirty lakh fifty six thousand six hundred fifty only) for the project as under :

Item of expenditure	Year 1 (2017-2018)	Year 2 (2018-2019)	Year 3 (2019-2020)
Equipments	750000	0	0
Staff Salary - JRF	300000	300000	336000
Staff Salary - SRF (1)	0	0	0
Technical Assistance	120000	120000	120000
Consumables	150000	100000	50000
Travel - PI	60000	60000	60000
Travel - PC/DC	15000	15000	15000
Contingencies	50000	50000	0
Overheads	104625	44625	43575
<b>Total(INR)</b>	<b>1549625</b>	<b>689625</b>	<b>624575</b>

Note: \* Radon Meter, Sample Grabber, Water quality multiprobe logger

JRF salary calculated @25,000/- p.m. for first two years and on redesignation by committee on in third year as SRF @ 28,000/- p.m. RA salary calculated @ 36,000/- p.m.

Please note that as per the government orders under **Direct Benefit Transfer (DBT) scheme, the staff salary has to be transferred to his/her bank account.** Accordingly, Aadhar Number(UID) of the appointed staff, Bank Account details and the Mobile number linked to the bank account should be obtained and it should be intimated to this office.

Overheads calculated @ 7.5% of the other heads except contingency. The remaining 7.5% towards overheads (Rs. 1,92,825/-) shall be released only on meeting the requirements specified (See Annex-B).

- I am also pleased to convey the sanction of the President of India to incur an expenditure of Rs. 15,49,625/- (Rupees fifteen lakh forty nine thousand six hundred twenty five only) towards grant for the year 2017-2018 .
- The expenditure involved is debitable to: **04 3401 00 004 27 0231.**
- This issues with the concurrence of Scientific Secretary, BRNS and IFA.

*Subrata Dutta*

Dr. S.Dutta

**Memorandum of Understanding for Execution of the Projects under National Mission on  
Himalayan Studies (NMHS), MoEFCC**

**Between**

**National Institute of Hydrology, Roorkee, 247667**

**And**

**Kashmir University, Srinagar, 190006**

1. Name of the Project	Permafrost mapping and characterisation of Ladakh Region				
2. Sponsoring Agency	National Institute of Hydrology, Roorkee (Under financial support for the proposal entitled "Permafrost mapping and characterisation of Ladakh Region" as NIH, Roorkee as lead project proponent from National Mission on Himalayan Studies (NMHS), MoEFCC				
3. Nodal Officer of NIH, Roorkee	Dr. Renoj J.Thayyen, Scientist E				
4. Executing Agency	Kashmir University, Srinagar, J&K				
5. Nodal Officer / Principal investigator at Executing Agency	Prof. Gh. Jeelani Department of Earth Sciences Kashmir University, Srinagar, J&K, 190006				
6. Duration of Project	From the date of signing of MoU up to 3 years				
7. Project Cost	Rs. 40,07,120 (Rs. Forty lakhs seven thousand one hundred Twenty Rupees Only) Year-wise breakup for sanctioned amount is given below				
7 (A)	Head	Year 1	Year2	Year3	Total
	JRF/SRF	1	1	1	
	Manpower	4,01,760	4,01,760	4,53,600	12,57,120
	Equipment	Nil			0.00
	Travel	1,50,000	1,50,000	1,00,000	4,00,000
	Contingency	1,00,000	1,00,000	1,00,000	3,00,000
	Consumables	50,000	50,000	50,000	1,50,000
	Other Cost	6,00,000	6,00,000	6,00,000	18,00,000
	Overheads	1,00,000	-	-	1,00,000
	Total	14,01,760	13,01,760	13,03,600	40,07,120

## SCIENCE &amp; ENGINEERING RESEARCH BOARD (SERB)

(A statutory body of the Department of Science &amp; Technology, Government of India)

Science and Engineering Research Board  
3rd & 4th Floor, Block II  
Technology Bhavan, New Mehrauli Road  
New Delhi - 110016

Dated: 18 January, 2024

## ORDER

Subject: Financial Sanction of the research project titled **Storage, transport and chemical evolution of infiltrating water in Critical Zone (CZ), western Himalayas** under the guidance of Prof. Ghulam Jeelani, Earth Sciences, Kashmir University, Hazratbal rd, hazratbal, srinagar, jk, Srinagar, Jammu and Kashmir-190006 and by Prof. BIKRAM SINGH BALI, Associate Professor, Department Of Earth Sciences, Kashmir University and by Prof. Mohd Sultan Bhat, Professor, Department Of Geography And Regional Development, Kashmir University and by Prof. Rajendrakumar Dattatraya Deshpande, Senior Professor, Geosciences Division, Physical Research Laboratory and by Prof. Sekhar Muddu, Professor, Civil Engineering, Indian Institute Of Science - Release of 1st grant

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 21065680/- (Rs. Two Crore Ten Lakh Sixty Five Thousand Six Hundred and Eighty Only) with break-up of Rs. 14220000/- under Capital (Non-recurring) head and Rs. 6845680/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 21065680/- has been approved are given below:

The following budget may be considered for Kashmir University, Hazratbal

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Automatic Weather Station -> Data logger -> Soil moisture sensors -> Laser Based Isotope Analyser -> Suction Lysimeters	14220000
A	Total (Non-Recurring)	14220000
B	Recurring Items	
1	Recurring - I: (Research Personnel) Recurring - II: (Consumables, Travel, Contingencies) Recurring - III: Scientific Social Responsibility	3535680 1750000 60000
2	Recurring - IV: (Overhead Charges)	1500000
B	Total (Recurring)	6845680
C	Total cost of the project (A + B)	21065680

2. Sanction of the grant is subject to the conditions, as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).

3. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

4. While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

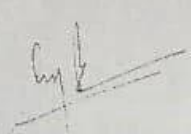
5. Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.

6. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

7. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

8. The institute will furnish to the SERB, separate Utilization certificate (UCs) financial year wise to the SERB to: Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

9. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further instalment of the grant.



**Sponsored Research and Extension  
Projects Recommended by SAC/Technical Committee for funding**

ANNEXURE

Rs. In lakhs  
Kashmir University

S.No	Name of Principal Investigator with Contact Details E-mail /cell No.	Title of the Project Proposal	Institution / Organization	Funds Recommended by the Technical Committee			Funds already Released (75% Capex)	Funds Released now (25% Capex)	Total funds released (8+9)
				1st Year	2nd Year	Total			
1	2	3	4	5	6	7	8	9	10
1	Prof. Gh. Jeelani, Head of Department, geojeelani@kashmiruniversity.ac.in	Slope Stability Assessment of Road Cuts Along Jammu Srinagar National Highway	Earth Sciences, School of Earth and Environmental Sciences, University of Kashmir Hazratbal Srinagar	5.99	2.50	8.49	4.27	1.00	5.27
2	Dr. Shabir Ahmad Parah, Sr. Asstt. Prof., shabireltr@gmail.com / 91956529991	Development of Lightweight security algorithms for IOMT based smart health applications	Deptt. Of Electronics & IT, University of Kashmir, Hazratbal Srinagar (J&K)	4.09	1.70	5.79	2.82	1.00	3.82
3	Dr. Javaid Iqbal, Senior Asstt. Prof., iamjavaid@gmail.com / 91-7006436048	Algorithm Design and Mathematical Mudelling of Software Testing Effort Consumption	P.G Deptt. Of Computer Sciences, University of Kashmir, Hazratbal Srinagar	2.50	0.50	3.00	2.02	0.48	2.50
4	Dr. Fayaz Ahmad, Prof. & Head, Deptt. of Environmental Science rajafayazali@gmail.com, 7006725416	Evaluation of Physiological, immunological and parasitological factors of native and exotic fishes as an environmental risk assesment (ERA) tools of	Deptt. Of environmental Science, University of Kashmir, Hazratbal Srinagar (J&K)	5.99	3.00	8.99	4.27	1.00	5.27
5	Dr. Manzoor Ahmad Mir, Sr. Assistant Prof., / Head Deptt. of Bioresources, drmanzoor@kashmiruniversity.ac.in / 9622901319	Targeting drug resistant cancer stem cells by combinational delivery of Paclitaxel and Quercetin /Zerumbone in breast	Deptt. Of Bioresources, University of Kashmir, Hazratbal Srinagar (J&K)	6.40	3.60	10.00	4.47	1.00	5.47

4.

*KV 2021-2020-15189*  
MoES/CCR/Paleo-8/2019  
Government of India  
Ministry of Earth Sciences

Prithvi Bhavan Lodhi Road,  
New Delhi-110003  
Dated: 27.09.2021

Corrigendum ①

**Subject:** Project entitled "Phytoliths as quantitative indicators for the reconstruction of past environmental conditions in Kashmir Himalayas, India".

**PI:** Dr. Reyaz Ahmad Dar, Department of Earth Sciences, University of Kashmir, Srinagar, J&K -190006.

**Co-PI:** Dr. Irfan Rashid, Department of Botany, University of Kashmir, Srinagar, J&K-190006.

In partial modification of this Ministry's Administrative and sanction orders of even number dated 13.07.2021, the project title may be read as:

**"Phytoliths as quantitative indicators for the reconstruction of past environmental conditions in Kashmir Himalayas, India".**

Instead of:

**"Understanding Paleoclimate, sea level changes, CO2 sequestration, Reactive Nitrogen, Phosphorous and carbon cycles, Coral reefs and Ocean acidification with reference to Climate Change".**

2. The other Terms & Conditions as mentioned in A.O. dated 13.07.2021 shall remain unaltered.

*Manjula Daniel*  
27/9/2021  
(Manjula Daniel)  
Under Secretary to the Govt. of India

To,  
The Pay and Accounts Officer, Ministry of Earth Sciences, New Delhi-110003

Copy to:

- The Principal Director of Audit (Scientific Department) AGCR Building, LP, Estate, New Delhi 110002.
- The Registrar, University of Kashmir, Srinagar, J&K -190006.
- Dr. Reyaz Ahmad Dar, Department of Earth Sciences, University of Kashmir, Srinagar, J&K -190006.
- Dr. Irfan Rashid, Department of Botany, University of Kashmir, Srinagar, J&K-190006.
- Cash Section, MoES, New Delhi.
- Controller of Accounts, MoES.
- AS&FA / JS / Se. G (GRI) / Dir (F) / AD (OL) / I/D, MoES.
- PPS to Secretary, MoES.
- Sanction folder/ File copy.

*Manjula Daniel*  
27/9/2021  
(Manjula Daniel)  
Under Secretary to the Govt. of India

*forwarded to Dr. Reyaz with the remarks that title of project is modified by the F.A. of J&K in this regard may be made please.*  
9/10/21  
Dr. Reyaz-A. Dar  
Earth Sciences.

*MS camp 11/10/21*  
*AR (Accts) 9/10/21*  
*Team CR*  
*5/10/21*

MoES/CCR/Paleo-8/2019  
Government of India  
Ministry of Earth Sciences

Prithvi Bhavan Lodhi Road,  
New Delhi-110003  
Dated: 13.07.2021

ADMINISTRATIVE ORDER

**Subject:** Project entitled "Understanding Paleoclimate, sea level changes, CO2 sequestration, Reactive Nitrogen, Phosphorous and carbon cycles, Coral reefs and Ocean acidification with reference to Climate Change".

**PI:** Dr. Reyaz Ahmad Dar, Department of Earth Sciences, University of Kashmir, Srinagar, J&K -190006.

**Co-PI:** Dr. Irfan Rashid, Department of Botany, University of Kashmir, Srinagar, J&K-190006.

In Supersession to this Ministry' Administrative Order of even no. 13.03.2020, sanction of the President is hereby conveyed under Rule 18 of the Delegation of Financial Power Rules 1978 for implementation of the above-mentioned project at an estimated cost of **Rs. 65,50,430/- (Rupees sixty five lakhs fifty thousand four hundred thirty only)** to University of Kashmir, Srinagar, J&K, for a period of three years (2021-2022 to 2023-24).

**2.0 Objectives**

- Date the individual loess-paleosol profiles in order to find the age of the deposited sediments by using radiocarbon and or cosmogenic radionuclide dating methods (14C and/or 10Be)
- Reconstruct paleoecology using phytolith types as diagnostic markers for C3 and C4 plants
- Correlate the identified phytolith morphotypes with respect to their topographic gradients and environmental condition during Late Quaternary Period.

**2.1 Programme:**

Phytoliths are valuable proxies used for tracing the past environmental and past vegetation dynamics associated with the regional tectonic uplift. In this project, it is proposed to use the detailed phytolith records from sediments and loess-paleosol sequences to better understand the paleoecological and paleoclimatic conditions that was prevailing during the late Quaternary Period in the Kashmir Valley, NW Himalayas. Systematic sampling, analysis of phytolith and dating of each individual paleosol profile would provide input for the assessment of paleoclimate and paleoecological changes of the intermontane Kurewa Basin of Kashmir Valley during Late Quaternary Period.

**2.2 Implementing Organization:**  
The project will be implemented by University of Kashmir, Srinagar, J&K.

**2.3 Estimated Project Cost:**  
Total estimated cost of the project is Rs. 65,50,430/- (Rupees sixty five lakhs fifty thousand four hundred thirty only) to University of Kashmir, Srinagar, J&K, for a period of three years (2021-2022 to 2023-24). The year-wise/item wise fund requirement is given below.

Contd.2

*Manjula Daniel*  
13/7/2021

(Amount in Rupees)

S. No.	Head	1st Year (2021-22)	2nd Year (2022-23)	3rd Year (2023-24)	Total
<b>A. RECURRING</b>					
i.	Manpower (JRFs @ INR 31000/-+16% HRA and SRF @35000/-+16% HRA for third year)	8,63,040	8,63,040	9,74,400	27,00,480
ii.	Consumables	50,000	50,000	50,000	1,50,000
iii.	Travel within India	1,50,000	1,50,000	1,00,000	4,00,000
iv.	Other costs/Contingency costs	1,00,000	1,00,000	1,00,000	3,00,000
	<b>Total (A)</b>	<b>11,63,040</b>	<b>11,63,040</b>	<b>12,24,400</b>	<b>35,50,480</b>
<b>B. Institute overheads</b>					
		75,000	75,000	75,000	2,25,000
<b>C. NON-RECURRING</b>					
i.	Microscope with accessories	25,74,950	----	----	25,74,950
ii.	Laptop, Printer and Camera	2,00,000	----	----	2,00,000
	<b>Total (C)</b>	<b>27,74,950</b>	<b>----</b>	<b>----</b>	<b>27,74,950</b>
	<b>Grand Total (A+B+C)</b>	<b>40,12,990</b>	<b>12,38,040</b>	<b>12,99,400</b>	<b>65,50,430</b>

2.4 Time Schedule: 03 years (2021-22 to 2023-24)

2.5 Description and proposed programme to be implemented by:

This project will be implemented by the PI and Co-PIs as per the details given below.

Research Activities	0-12 months	13-24 months	25-36 months
Literature survey and			
Recruitment of Research fellows			
Procurement of lab equipments			
Design of experimental setup			
Identification of loess-paleosol sections for sampling			
Preparation and sampling of lithostratigraphic columns of loess-paleosol sections			
Separation of phytoliths and dating material for dating of individual paleosol profiles			
Identification and morphometric analysis of phytoliths			
Identification of phytolith morpho-types as diagnostic markers for C3 and C4 plants			
Documentation and correlation of phytolith morphotypes with respect to their environmental conditions			
Preparation of Final Technical Report and Publications			

3.0 The expenditure will be booked under the following Budget Head:

3425	-	Other Scientific Research (Major Head)
60.200	-	Assistance to Other Scientific Bodies (Minor Head)
52	-	Research Education and Training Outreach
52.00.31	-	Grant-in-Aid-General

Contd.3

*U Daniel*  
13/7/2021

#### 4.0 Other Terms & Conditions:

- Allocation of budget is tentative and subject to changes after review of progress, both physical and financial as recommended by the Committee of Experts.
- The grantee organisation will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. The interest earned / accrued should be reported to MoES (financial year wise) while submitting the Statement of Expenditure/Utilization Certificate. As per Rule 230(8) of GFR 2017, all interest or other earning against Grant-in-aid released to the grantee finalization of the account It should not be allowed to be adjusted against future release.
- A list of equipments procured and other assets created for this project from the funds released shall be provided to MoES in the prescribed format as per GFR. The ownership in the physical and intellectual assets created or acquired out of MoES funds shall vest in MoES.
- All equipments / assets procured out of MoES grant shall be maintained by the grantee institute and will be available for use by other researchers.
- All equipments / assets procured from MoES funded shall be maintained in the stock register of the grantee institute and should not treat such assets as their own assets in their Book of Accounts but should disclose their holding and using such assets in the Notes to Accounts specifically. No asset/equipment shall be diverted and /or disposed off without prior approval of the competent authority in MoES.
- Codal provisions as conveyed in GFR, manual on Policies and Procedures for purchase of Goods and Gov instructions issued from time to time for services and requisition of research personnel shall be ensured.
- This sanction is subject to the condition that the grantee organization will furnish to the Ministry of Earth Sciences, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017, 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 and DBT details of the manpower as per the enclosed proforma.
- Expenditure, Advance and Transfer (EAT) module of PFMS should be activated for the grants released under the project and expenditure under the project shall be monitored through EAT module.
- 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.
- The Position of project staff is co-terminus with the duration of the project & MoES would have no liability towards such manpower costs beyond the duration of the project.
- Overhead expenses are meant for the host institute towards the cost for providing infrastructural facilities and benefits to the staff employed in the project, etc.
- While implementing the programme all relevant procedures will be followed and the Ministry shall be apprised of the progress of the project from time to time.

Contd.4

*U Daniel*  
13/7/2021



FILE NO. CRG/2023/006624 -G  
**Anusandhan National Research Foundation (ANRF)**  
 (A statutory body created by an Act of Parliament - ANRF Act, 2023)  
 Science & Engineering Research Board (SERB) Core Research Grant Scheme

ANRF  
 3rd & 4th Floor, Block II  
 Technology Bhavan, New Mehrauli Road  
 New Delhi - 110016

Dated: 08 May, 2024

**ORDER**

Subject: Research project entitled **The role of extreme weather events and patterns in shaping vadose zone hydrology in snow dominated catchments** under the guidance of Dr. Sarah, EARTH SCIENCES, Kashmir University, Hazratbal rd, hazratbal, srinagar, jk, Srinagar, Jammu and Kashmir-190006 and by Dr. Reyaz Ahmad Dar, Assistant Professor, Earth Sciences, University Of Kashmir, Kashmir University and by Dr. TANVI ARORA, SENIOR SCIENTIST, ELECTRICAL GEOPHYSICS, CSIR National Geophysical Research Institute.

1. In continuation of ANRF's sanction order No. CRG/2023/006624 dated 08 May, 2024, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs. 850000/-** under 'Grants-in-aid General' to Kashmir University, Hazratbal Rd, Hazratbal, Srinagar, Jk, Srinagar, Jammu And Kashmir-190006 being the grant for the financial year 2024-2025 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website ([www.serb.gov.in](http://www.serb.gov.in)) and as mentioned in the sanction order of even number dated 08 May, 2024.
3. As this is the first grant being released under 'Grants-in-aid General' for the project, no previous U/C is required.
4. The expenditure involved is debitable to **Science and Engineering Research Fund**. This release is being made under Core Research Grant (**PAC Earth & Atmospheric Sciences**) (General).
5. The Sanction has been issued with the approval of the competent authority on **02 May, 2024** and vide Diary No. **ANRF/F/946/2024-2025** dated **08 May, 2024**.
6. The release amount of **Rs. 850000/-** (Rupees Eight Lakh Fifty Thousand only) will be drawn by the DDO of the ANRF and will be disbursed by means of RTGS transaction as per their Bank details given below:

Agency Name	University of Kashmir
PFMS Unique Code	UNIKASHMIR
Account Name	Dean Research, University of Kashmir
Account Number	0007040500000057
Bank Name & Branch	Jammu and Kashmir Bank Limited UNIVERSITY CAMPUS, HAZRATBAL, SRINAGAR
IFSC/RTGS Code	JAKA0NASEEM
Email id of A/C Holder	deanresearch@uok.edu.in
Email id of PI	sarahqazi5@gmail.com

(Dr. Prahlad Ram)  
 Scientist E  
 prahlad@serb.gov.in

To,  
 DDO  
 ANRF, New Delhi

Copy forwarded for information and necessary action to: -

1.	Office of Director General of Audit (Environment & Scientific Department), AGCR Building, I. P. Estate, New Delhi 110002
2.	Sanction Folder, ANRF, New Delhi.
3.	File Copy

4.	<p>Dr. Sarah          EARTH SCIENCES          Kashmir University, Hazratbal rd, hazratbal, srinagar, jk, Srinagar, Jammu and Kashmir-190006          Email: sarahqazi5@gmail.com          Mobile: 917006775902</p> <p>Dr. Reyaz Ahmad Dar          Earth Sciences, University Of Kashmir          Kashmir University</p> <p>Dr. TANVI ARORA          ELECTRICAL GEOPHYSICS          CSIR National Geophysical Research Institute          (Start date of the project may be intimated by name to the undersigned. For guidance, terms &amp; Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a>.)</p>
5.	<p>Dean Research,          Kashmir University, Hazratbal</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>

(Dr. Prahlad Ram)  
 Scientist E  
 prahlad@serb.gov.in

FILE NO. CRG/2023/006624  
**Anusandhan National Research Foundation (ANRF)**  
 (A statutory body created by an Act of Parliament - ANRF Act, 2023)  
 Science & Engineering Research Board (SERB) Core Research Grant  
 Scheme

ANRF  
 3rd & 4th Floor, Block II  
 Technology Bhavan, New Mehrauli Road  
 New Delhi - 110016

Dated: 08 May, 2024

**ORDER**

Subject: Financial Sanction of the research project titled **The role of extreme weather events and patterns in shaping vadose zone hydrology in snow dominated catchments** under the guidance of Dr. Sarah, EARTH SCIENCES, Kashmir University, Hazratbal rd, hazratbal, srinagar, jk, Srinagar, Jammu and Kashmir-190006 and by Dr. Reyaz Ahmad Dar, Assistant Professor, Earth Sciences, University Of Kashmir, Kashmir University and by Dr. TANVI ARORA, SENIOR SCIENTIST, ELECTRICAL GEOPHYSICS, CSIR National Geophysical Research Institute - Release of 1st grant.

Sanction of **Anusandhan National Research Foundation (ANRF)** is hereby accorded for the above mentioned project under the **Science and Engineering Research Board (SERB) scheme - Core Research Grant** at a total cost of **Rs. 4877720/- (Rs. Forty Eight Lakh Seventy Seven Thousand Seven Hundred and Twenty Only)** with break-up of **Rs. 2000000/- under Capital (Non-recurring) head and Rs.2877720/- under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 4877720/-** has been approved are given below:

The following budget may be considered for **Kashmir University, Hazratbal**

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	
1	Equipment -> Automatic water level loggers -> Suction lysimeters -> Scholander Pressure system -> Automatic precipitation samplers -> Automatic weather station	2000000
<b>A'</b>	<b>Total (Non-Recurring)</b>	<b>2000000</b>
<b>B</b>	<b>Recurring Items</b>	
1	Recurring - I : (Research Personnel) Recurring - II : ( Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1614720 800000 20000
2	Recurring - IV : (Overhead Charges)	443000
<b>B'</b>	<b>Total (Recurring)</b>	<b>2877720</b>
<b>C</b>	<b>Total cost of the project (A + B)</b>	<b>4877720</b>

- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).
- Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.
- While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
- Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities listed under SSR norms and under no circumstances can it be reappropriated.
- As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
- The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of ANRF.



8.The institute will furnish to the ANRF, separate Utilization certificate (UCs) financial year wise for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

9. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to ANRF. The budget head-wise interest thus earned will have to be returned to the ANRF by way of a Demand Draft/account-payee cheque drawn in favour of the "Science & Engineering Research Fund", payable at New Delhi and sent to the DDO/US, ANRF along with a copy of UC/SE.

10. The research personnel sanctioned in the project, if any, is co-terminus with the duration of the project and ANRF will have no liability to meet the fellowship and salary of supporting staff, if any, beyond the duration of the project

11. The institute must refund any unspent balance to ANRF by means of a Demand Draft favouring "SCIENCE AND ENGINEERING RESEARCH FUND" payable at New Delhi.

12. The project File no. CRG/2023/006624 should be mentioned in all communications arising from the above project. The organization/institute/university should ensure that the technical support/financial assistance provided to them by ANRF should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

13. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by ANRF.

14. Sanction order for release of funds under a) Non-recurring and b) Recurring will be issued separately depending on the availability of funds. The project will become operational from the day the first release of grant is received by the implementing Institute.

  
 (Dr. Prahlah Ram)  
 Scientist E  
 prahlah@serb.gov.in

To,  
 DDO  
 ANRF, New Delhi  
 Copy forwarded for information and necessary action to :-

1.	Office of Director General of Audit (Environment & Scientific Department), AGCR Building, I. P. Estate, New Delhi 110002
2.	Sanction Folder, ANRF, New Delhi.
3.	File Copy
4.	Dr. Sarah EARTH SCIENCES Kashmir University , Hazratbal rd, hazratbal, srinagar, jk, Srinagar, Jammu and Kashmir-190006 Email: sarahqazi5@gmail.com Mobile: 917006775902  Dr. Reyaz Ahmad Dar Earth Sciences, University Of Kashmir Kashmir University  Dr. TANVI ARORA ELECTRICAL GEOPHYSICS CSIR National Geophysical Research Institute (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .)
5.	Dean Research, Kashmir University, Hazratbal  (Receipt of Grant may be intimated by name to the undersigned)

  
 (Dr. Prahlah Ram)  
 Scientist E  
 prahlah@serb.gov.in