

**DST/CCP/CoE/183/2019(C)**  
**Government of India**  
**Ministry of Science & Technology**  
**Department of Science & Technology**  
**(SPLICE- Climate Change Programme)**

Technology Bhavan, New Delhi  
Dated 23.01.2020

**ORDER**

**Sub:** Financial assistance for the project titled "Centre of Excellence for Glacial studies in Western Himalaya" to be implemented by Department Earth Sciences, University of Kashmir, Hazratbal Srinagar-190006, Jammu and Kashmir. (PI - Dr. Shakil Ahmad Romshoo) under the National Mission for Sustaining the Himalayan Ecosystem (NMSHE)- Approval of the proposal and release of grants for the first year.

In continuation of the sanction order of even no DST/CCP/CoE/183/2019 (G) dated 23.01.2020, sanction of the President is hereby accorded to the release of Rs. 2,91,48,967/- (Rupees two crore ninety one lakhs forty eight thousand nine hundred sixty seven only) as a grants under 'Creation of capital assets' under in the above mentioned project as per the followings details:

Head	I Yr	II Yr	III Yr	IV Yr	V Yr	Total
<u>Non- Recurring</u>	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Ice-core Drilling system	12543316					12543316
Weather Stations (02 Nos.) @ Rs. 2000000/-	4000000					4000000
HPE high storage Rack server-HPE Make	1200000					1200000
Tree ring measurement Station and software	2205063					2205063
Unmanned Aerial Vehicle(UAV)	3856160					3856160
Multi parameter water quality Kit-U53G	542800					542800
Field station (1 No.) @ Rs.1500028/- at the benchmark glacier sites	1500028					1500028
HP elite 800 G4 Desktop tower station,(8 Nos.) @ Rs. 175200/-	1401600					1401600
Portable Solar Power Generator and accessories	300000					300000
Tents/mountain equipment	1000000					1000000
Ice-core storage boxes (20 Nos.) @ Rs. 30000/-	600000					600000
<b>Non-Recurring Total (A)</b>	<b>29148967</b>					<b>29148967</b>

2. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the Performa 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.

*(Signature)*

utilization certificate and project completion report within one year from the scheduled date of completion of the project.

3. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.
4. If the 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.
5. The grant-in-aid being released is subject to the condition that
  - c. transparent procurement procedure in line with the Provision of General Financial Rules 2017 will be followed by the institute/organisation under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant;
  - d. While submitting Utilization Certificate/Statement of Expenditure, the organization 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.
6. The grantee organization 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 DST (financial year wise) while submitting the Statement of Expenditure/Utilization Certificate.
7. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants Released during F.Y. 2017-18 and onwards, all interests and other earnings, against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e., [www.bharatkosh.gov.in](http://www.bharatkosh.gov.in)) , immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/Utilization Certificate for considering subsequent release of grant/closure of Project accounts.
8. 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.
9. 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 emolument/salary/fellowship from any other project either supported by DST or by any other funding agency.
10. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Account Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Rules 2017.
11. Due acknowledgement of technical support/ financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publication/ media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.



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

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

14. The expenditure involved is debit to Demand No. 86, Department of Science and Technology for the year 2019-20.

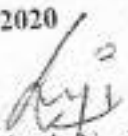
3425	Other Scientific Research (Major Head)
60	Other (Sub Major Head)
60.200	Assistance to other Scientific bodies (Minor Head)
69.00	Research and Development (SPLICE- Climate Change Program)
69.00.35	Grant for Creation of capital assets for the year 2019-20 (Previous: SPLICE-CCP - 3425.60.200.56.04.35)

15. The amount of Rs. 2,91,48,967/- (Rupees two crore ninety one lakhs forty eight thousand nine hundred sixty seven only) under 'Creation of capital assets' will be drawn by the Drawing & Disbursing Officer (DDO), DST and will be disbursed to the "Dean, Research, University of Kashmir" by means of RTGS as per bank details given below:

Name of Account Holder	Dean, Research, University of Kashmir
Name of the Bank & Branch	Jammu and Kashmir Bank, Hazratbal, Srinagar
Bank A/C Number	0007040500000057
IFSC Code	JAKA0NASEEM
MICR Code	190051042

16. As per Rule 234 of GFR 2017, this sanction has been entered at S. No 76 in the register of grants maintained in the Division for the scheme Research & Development (SPLICE-Climate Change Program)

17. This issues with the concurrence of IFD vide their Concurrence Dy. No 5242 Dated 23.01.2020

  
(Susheela Negi)  
Sc. 'E' / Ph: 26590551

To,  
Pay and Accounts Officer

Copy forwarded for information and necessary action to:

1. The Director of Audit (CW and M-II), Indraprastha Estate, AGCR Building, New Delhi.
2. Head (SPLICE, DST)
3. Section Officer (Cash, 3 Copies), DST
4. Integrated Finance Division
5. Registrar, University of Kashmir, Hazratbal Srinagar-190006, Jammu and Kashmir
6. Dr. Shakil Ahmad Romshoo, Department Earth Sciences, University of Kashmir, Hazratbal Srinagar-190006, Jammu and Kashmir
7. Sanction folder/ file

**DST/CCP/CoE/183/2019(G)**  
**Government of India**  
**Ministry of Science & Technology**  
**Department of Science & Technology**  
**(SPLICE- Climate Change Programme)**

Technology Bhavan, New Delhi  
Dated 23.01.2020

**ORDER**

**Sub:** Financial assistance for the project titled "Centre of Excellence for Glacial studies in Western Himalaya" to be implemented by Department Earth Sciences, University of Kashmir, Hazratbal Srinagar-190006, Jammu and Kashmir. (PI - Dr. Shakil Ahmad Romshoo) under the National Mission for Sustaining the Himalayan Ecosystem (NMSHE)- Approval of the proposal and release of grants for the first year.

Sanction of the President is hereby accorded to the approval of the above mentioned project at a total cost of Rs. 7,85,26,807/- (Rupees seven crore eighty five lakhs twenty six thousand eight hundred seven only) for a duration of three years. The detailed breakup of the grant for General as well as Capital components and the items of expenditure as approved are given as below:-

General Component                      Rs. 4,93,77,840/-  
Capital Component                         Rs. 2,91,48,967/-

**Items of expenditure as approved:**

Head	I Yr	II Yr	III Yr	IV Yr	V Yr	Total
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>Non- Recurring</b>						12543316
Ice-core Drilling system	12543316					4000000
Weather Stations. (02 Nos.) @ Rs. 2000000/-	4000000					1200000
HPE high storage Rack server-HPE Make	1200000					2205063
Tree ring measurement Station and software	2205063					3856160
Unmanned Aerial Vehicle(UAV)	3856160					542800
Multi parameter water quality Kit-U53G	542800					1500028
Field station (1 No.) @ Rs.1500028/- at the benchmark glacier sites	1500028					1401600
HP elite 800 G4 Desktop tower station.(8 Nos.) @ Rs. 175200/-	1401600					300000
Portable Solar Power Generator and accessories	300000					1000000
Tents/mountain equipment	1000000					600000
Ice-core storage boxes (20 Nos.) @ Rs. 30000/-	600000					<b>29148967</b>
<b>Non-Recurring Total (A)</b>	<b>29148967</b>					
<b>Recurring</b>						3410400
Principal Project Associate (01 Nos.) @49000/Month + HRA 16%	682080	682080	682080	682080	682080	

*(Signature)*

Senior Project Associate (01 Nos.) @42000/Month + HRA 16%	1753920	1753920	1753920	1753920	1753920	8769600
Project Associate - II (03 Nos.) @35000/Month + HRA 16%	1461600	1461600	1461600	1461600	1461600	7308000
Project Associate - I (04 Nos.) @31000/Month + HRA 16%	1726080	1726080	1726080	1726080	1726080	8630400
Laboratory Assistant/Technician/ Project Assistant/ Technical Assistant / Field Assistant (02 Nos.) @20000/Month + HRA 16% for 1st. 2nd, 3rd Year & @20000/Month + (15% increment) + HRA 16% for 4th & 5th Year	556800	556800	556800	640320	640320	2951040
Scientific Administrative Assistant / Field Worker (03 Nos.) @18000/Month + HRA 16%	751680	751680	751680	751680	751680	3758400
Consumables (Justification)	500000	500000	500000	500000	500000	2500000
Travel (Justification)	800000	800000	800000	800000	800000	4000000
Contingencies (Justification)	50000	50000	50000	50000	50000	250000
Other Costs (Justification)	900000	900000	900000	1800000	1800000	6300000
<b>Recurring Total (B)</b>	<b>9182160</b>	<b>9182160</b>	<b>9182160</b>	<b>10165680</b>	<b>10165680</b>	<b>47877840</b>
OH charges	300000	300000	300000	300000	300000	1500000
<b>Sub-Total (C)</b>	<b>9482160</b>	<b>9482160</b>	<b>9482160</b>	<b>10465680</b>	<b>10465680</b>	<b>49377840</b>
<b>Grand Total (A+C)</b>	<b>38631127</b>	<b>9482160</b>	<b>9482160</b>	<b>10465680</b>	<b>10465680</b>	<b>78526807</b>


The sanction of the President is also accorded to the release of **Rs. 94,82,160/- (Rupees ninety four lakhs eighty two thousand one hundred sixty only)** being the first installment of grants under **General Head** for implementation of the above mentioned project.

- This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the Performa 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.
- The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.
- If the 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.
- The grant-in-aid being released is subject to the condition that
  - transparent procurement procedure in line with the Provision of General Financial Rules 2017 will be followed by the institute/organisation under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant;

Name of Account Holder	Dean, Research, University of Kashmir
Name of the Bank & Branch	Jammu and Kashmir Bank, Hazratbal, Srinagar
Bank A/C Number	0007040500000057
IFSC Code	JAKA0NASEEM
MICR Code	190051042

16. As per Rule 234 of GFR 2017, this sanction has been entered at S. No 75 in the register of grants maintained in the Division for the scheme Research & Development (SPLICE-Climate Change Program)

17. This issues with the concurrence of IFD vide their Concurrence Dy. No 5241 Dated 23.01.2020

  
(Susheela Negi)  
Sec. 'E' / Ph: 26590551

To,  
Pay and Accounts Officer

Copy forwarded for information and necessary action to:

1. The Director of Audit (CW and M-II), Indraprastha Estate, AGCR Building, New Delhi.
2. Head (SPLICE, DST)
3. Section Officer (Cash, 3 Copies), DST
4. Integrated Finance Division
5. Registrar, University of Kashmir, Hazratbal Srinagar-190006, Jammu and Kashmir
6. Dr. Shakil Ahmad Romshoo, Department Earth Sciences, University of Kashmir, Hazratbal Srinagar-190006, Jammu and Kashmir
7. Sanction folder/ file



# OFFICE OF THE RUSA

## UNIVERSITY OF KASHMIR

NAAC ACCREDITED GRADE "A+"

HAZRATBAL, SRINAGAR (J&K)-190006

No:- F(Allocation-1<sup>st</sup>)RUSA/2020

Dated:- 11-11-20

Prof. S.A Romshoo  
Department of Geo-Informatics  
University of Kashmir

Ref:- Release of funds under the "Research and Innovation Component."

Subject: - Your proposal recommended for support under component 10 of RUSA 2.0.

Sir/Madam,

I am directed to convey the tentative allocation of funds for 2020-21 for your Project "Strengthening the Innovative Research in Geomatics, Climate Change and Hydrology" as 1<sup>st</sup> installment along with copy of guidelines for further course of action at your end in order to run the project smoothly.

Estimated Cost (In Lacs)		1 <sup>st</sup> Installment Allocation (In Lacs)	
Non-Recurring	Recurring	Non-Recurring	Recurring
573.00	120.00	45.00	13.00

The approval of the grant is subject to:-

- Following the codal procedure and guidelines of the funding agency.
- Following the terms & conditions enclosed at Annexure "A".
- The expenditure is to be incurred strictly for the objectives/activities mentioned in the approved proposal, as per RUSA mandate.

Yours sincerely

  
Assistant Registrar  
RUSA

Copy to :-

- S.S to Vice Chancellor for information.
- P.S to Registrar for information.



# OFFICE OF THE RUSA

## UNIVERSITY OF KASHMIR

NAAC ACCREDITED GRADE "A1"  
HAZRATBAL, SRINAGAR (J&K)-190006

No:- F(1<sup>st</sup> Ins-2<sup>nd</sup> Release)RUSA/2021

Dated:- 24-6-21

Prof. S.A Romshoo  
Department of Geo-Informatics  
University of Kashmir

Ref:- Release of funds under the " Research and Innovation Component".

Subject: - Your proposal recommended for support under component 10 of RUSA 2.0.

Sir/Madam,

I am directed to convey the tentative allocation of funds for 2020-21 for your Project "*Strengthening the Innovative Research in Geomatics, Climate Change and Hydrology*" as 1<sup>st</sup> installment (2<sup>nd</sup> Release) for further course of action at your end in order to run the project smoothly.

Estimated Cost (In Laacs)		1 <sup>st</sup> Installment (2 <sup>nd</sup> release) Allocation (In Laacs)	
Non-Recurring	Recurring	Non-Recurring	Recurring
573.00	120.00	135.00	10.00

However, terms and conditions will remain unchanged.

Yours sincerely

  
Assistant Registrar  
RUSA

Copy to :-

1. S.S to Vice Chancellor for information.
2. P.S to Registrar for information.







# OFFICE OF THE RUSA

## UNIVERSITY OF KASHMIR

NAAC ACCREDITED GRADE "A+"

HAZRATBAL, SRINAGAR (J&K)-190006

KU2022-RUSA-466  
No:- F(State-Share-Release)RUSA/2022  
Dated:- 21-12-2022

Prof. S.A Romshoo  
Department of Geo-Informatics  
University of Kashmir

**Subject:- Release of State Share funds under the "Research and Innovation Component".**

Sir,

In continuation with earlier release of grants (Centre Share) under component 10 of RUSA 2.0, of even order dated 11-11-2020 & 24-06-2021, I am directed to convey the tentative allocation of State Share funds for 2022-23 for your Project "*Strengthening the Innovative Research in Geomatics, Climate Change and Hydrology*" as 1<sup>st</sup> installment (State Share) for further course of action at your end in order to run the project smoothly.

Estimated Cost (In Lacs)		1 <sup>st</sup> & 2 <sup>nd</sup> Release Allocation (Centre Share) (In Lacs)		1 <sup>st</sup> Installment (State Share) Allocation (In Lacs)	
Non-Recurring	Recurring	Non-Recurring	Recurring	Non-Recurring	Recurring
573.00	120.00	180.00	23.00	10.00	10.00

The other terms and conditions will remain unchanged.

Yours sincerely

Assistant Registrar  
RUSA

Copy for information to :-

1. S.S to Vice Chancellor for information of Hon'ble Vice Chancellor.
2. P.S to Registrar for information of Registrar.
3. Director Finance for information.
4. File.



# OFFICE OF THE RUSA/SAP

UNIVERSITY OF KASHMIR

NAAC ACCREDITED GRADE "A1"

HAZRATBAL, SRINAGAR (J&K)-190006

K02023-DGEI-4012

No: F(RUSA -2.0-Project )KU/24

Dated:-7-2-2024

Prof. Shakil A Romshoo,  
Principal Investigator,  
Department of Geo-informatics,  
University of Kashmir, Srinagar

Ref:- Your proposal No. F(RUSA-GeoIT)KU/2023 dated 20 October, 2023.

Subject :- Release of next 3<sup>rd</sup> installment of the sanctioned grant for the procurement of equipment/materials under RUSA 2.0.

Sir,

In connection with the above cited subject, I am directed to convey you that due to shortage of funds, the above referred proposal for procurement of equipment to the tune of Rs 1.25 crores shall be considered as and when the remaining 50% grant will released by the funding agency.

By order,

Yours Sincerely

  
Assistant Registrar  
RUSA/SAP

Copy to the:-

01. Assistant Registrar Accounts.
02. P.A to Registrar for information of Registrar.
03. File.

**Development of a model based polarimetric decomposition for  
Himalayan glacier ice  
(under MAHTRAM programme)**

**Work Plan – Dept. of Earth Sciences, University of Kashmir, Srinagar**

**Work, Schedule, Responsibility and Fund Allocation for the project extension period  
April 2022 – March 2023**



**Space Applications Centre, ISRO, Ahmedabad**

**and**

**Dept. of Earth Sciences, University of Kashmir, Srinagar**



**Advanced Techniques Development Division (ATDD)  
Advance Microwave and Hyperspectral Techniques Development Group (AMHTDG)  
Earth, Ocean, Atmosphere, Planetary Sciences and Applications Area (EPSA)  
Space Applications Centre (ISRO)  
Ahmedabad 380015**

**March 2022**

## 1) INTRODUCTION

This project aims to develop advanced techniques related to PolSAR decompositions and retrieval techniques for Himalayan snow and glacier ice. Since PolSAR imagery is directly affected by the shape and orientation of the scatterer, it becomes difficult to infer the underlying physical properties of ice (like density, extinction co-efficient etc). So it becomes important to separate the volume scattering from the ground scattering for further analysis. Existing methods of PolSAR decomposition (like Eigen based or Coherent decompositions) become inadequate for this purpose. The best suited methodology in such a scenario is a novel model-based decomposition specifically tailored to Himalayan glaciers, which the project targets to develop (study area: Drang-drang glacier, Zaskar valley, Ladakh). Also the project aims to develop a robust retrieval methodology for snow depth using dual-pol/full-pol/multi-temporal SAR data (study area: Gulmarg, near Srinagar).

The forward microwave scattering model for glacier ice, incorporating oriented volume (with effects of propagation taken into account) has been completed. Retrieval of dielectric constant over the study glacier has also been demonstrated. Currently the concurrent retrieval of 5 parameters, including the coefficients of 2-component decomposition, by inverting the PolSAR data is being carried out. An extensive GT over the Drang-drang glacier was carried out in September, 2021, making use of Toikka Snowfork instrument for snow/firn physical parameter measurements. Multiple measurements over the snow study area (Gulmarg, near Srinagar) have also been carried out in the January - February, 2022 time period. The Snowfork instrument had been handed over to University of Kashmir, for repeated snow parameter measurements in Gulmarg study area (including the upcoming 2022-2023 winter time).

To makeup for the lost time due to COVID-19 and delayed GT expeditions, and also to permit timeseries measurements of the snow parameters over the study area (Gulmarg) a one year extension (April 2022 - March 2023) has been requested.

## 2) SCOPE & OBJECTIVES

The following objectives are to be met during the extension period (April 2022 - March 2023)

- To complete the development model based decomposition algorithm (for PolSAR data) over Himalayan glacier region, which is currently in progress.
- To develop a robust technique for snow depth estimation using SAR data.
- Measurement of Snow parameters in tandem with Sentinel-1 and EOS-4 passes

## 3) PARTICIPATING AGENCIES AND RESPONSIBILITIES

**(Timeline: April-2022 - March 2023)**

The collaborating agency is Dept. of Earth Sciences, University of Kashmir (UoK).

Sr. No.	Work/Milestone	Schedule	Participating Agency
1	Development of a robust retrieval technique for snow depth using SAR data. Includes explorations of dual-pol, full-pol, multi-frequency and multi-temporal techniques.	April 2022 - Nov 2022	UoK
2	Continuous measurement of snow properties in the identified regions of Gulmarg area near Srinagar using snowfork provided by SAC. Measurements to be done in syne with Sentinel-1 and EOS-4 passes.	Nov 2022 - Mar 2023	UoK
3	Validation of the retrieval algorithms developed by CA	Aug 2022 - Mar 2023	UoK & SAC

Sr. No.	Work/Milestone	Schedule	Participating Agency
1	Completion of the PolSAR scattering model from Himalayan glacier ice & the development of the decomposition technique	Apr 2022 - Nov 2022	SAC
2	Validation of the PolSAR decomposition model (using past GT and new ones in 2022, if required.)	Sep 2022 - Mar 2023	SAC
3	Preparation of ATBD and journal papers	Dec 2022 - Mar 2023	CoK & SAC

4) DELIVERABLES

- (a) ATBD for the developed model for scattering from glacier ice.
- (b) Ground truth data for all the snow properties measurements.
- (c) Software module for the PolSAR decomposition technique for Himalayan glaciers.
- (d) Software module for the snow depth retrieval.

5) BUDGET BREAK-UP FOR UNIVERSITY OF KASHMIR

SR. No.	ITEM DESCRIPTION	FY 2022-23 (INR)
1.	JRF Salary (@31000/-) + HRA (10%)*	4,09,200
2.	Travel (inclusive of Field work at selected study areas of Gulmarg, visit to SAC for data analysis and meetings); GT measurements in sync with Sentinel-1 and EOS-4 passes. (The fund includes additional budget of INR 1,00,000 for EOS-4)	2,00,000
3.	Contingency (Misc. expenditure)	50,000
4.	Institutional Overhead (15%*)	98,880
	<b>Total</b>	<b>7,58,080</b>

Signatures:



PI: Deepak Putrevu  
Head-ATDD/AMHTDG Sci/Engr-SG

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Cn-PI: Dr. Sanid Chirakkal  
Sci/Engr - SE, ATDD/AMHTDG


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Dr. Arundhati Misra  
Group Director, AMHTDG/EPSA

PI: Prof. Shakil Ahmed Romshoo,  
Dept. of Earth Sciences,  
University of Kashmir, Srinagar, Kashmir

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Dr. I.M. Bahuguna  
Deputy Director, EPSA/SAC

श्रीमती अरुंधति मिश्रा / Dr. Arundhati Misra  
 ग्रुप निदेशिका / Group Director  
 अंतरिक्ष मापन एवं दूरदर्शन तकनीक विकास समूह (AMHTDG)  
 अंतरिक्ष मापन एवं दूरदर्शन तकनीक विकास समूह (AMHTDG)  
 पृथ्वी, वायुमंडल, अंतरिक्ष विज्ञान एवं अनुप्रयोग क्षेत्र (EPSA)  
 Earth, Ocean, Atmosphere, Planetary Science and Applications Area (EPSA)  
 अंतरिक्ष अनुप्रयोग केंद्र (ISRO) / Space Applications Centre (ISRO)  
 भारत सरकार / Government of India  
 अहमदाबाद / Ahmedabad

उप निदेशिका / Dy. Director  
 पृथ्वी, वायुमंडल, अंतरिक्ष विज्ञान और अनुप्रयोग क्षेत्र (ईपीएसए)  
 Earth, Ocean, Atmosphere, Planetary Science and Applications Area (EPSA)  
 अंतरिक्ष अनुप्रयोग केंद्र (इसरो)  
 Space Applications Centre (ISRO)  
 भारत सरकार / Govt. of India  
 अंतरिक्ष विभाग / Dept. of Space  
 अहमदाबाद / Ahmedabad-380015

RE: Regarding UC for FY 2021-2022 - MAHTRAM Project

From: Deepak Putrevu (dputrevu@sac.isro.gov.in)  
To: shakilrom@uok.edu.in; sanid@sac.isro.gov.in  
Date: Wednesday, August 24, 2022, 06:47 PM GMT+5:30

Dear Sir,

An amount of Rs. 7,58,080 was transferred on 25<sup>th</sup> July with UTR no. SBINR52022072716447599. Pls confirm receipt.

Regards

Deepak

---

दीपक पुट्रेवु / Deepak Putrevu

प्रधान-एन्टीडीडी/एपसा / Head-MTDD/AMHTDG/EPSSA, Sci/Engr-SG,

दूरभाष/Ph: 079-2691-4139

भ्रमण-भाष/Cell: 9426520484

सैक (इसरो), अहमदाबाद / SAC (ISRO), Ahmedabad

**From:** shakilrom@uok.edu.in [mailto:shakilrom@uok.edu.in]  
**Sent:** 24 August 2022 04:49 PM  
**To:** Deepak Putrevu <dputrevu@sac.isro.gov.in>; sanid <sanid@sac.isro.gov.in>  
**Subject:** Re: Regarding UC for FY 2021-2022 - MAHTRAM Project

Dear Dr. Deepak,

*cash Section*  
*Regular Account*

Earth, Ocean, Atmosphere, Planetary Sciences & Applications Area (EPSA)

EPSA: MAHTRAM

From: Deepak Putrevu  
 Head, MIDD/AMHEDG/EPSA  
 SAC (ISRO)- Ahmedabad

To : Prof Shakil Ahmed Romshoo  
 Dept. of Earth Sciences,  
 University of Kashmir  
 Srinagar, Kashmir

**2**  
 Rtd. with the number 370,000/-  
 that an amount of Rs. 370,000/-  
 has been credited to R/G Ac  
 on 3/x/2020.  
 S.O  
 (GSH)  
 19/x/20.

Sub: Break-up details of the fund transferred during the current FY 2020-21 under MAHTRAM project

Dear Sir,

Following are the details of the break-up for the fund transferred during the current financial year 2020-21, for the project under MAHTRAM. Requesting to kindly plan this year's expenditure accordingly.

Professional services (JRF/SRF)	Rs. 409200
Ground Truth Measurements	Rs. 100000
Institution Overhead	Rs. 76380
Total (a)	Rs. 585580
Balance from previous (b)	Rs. 214859
Net: (a) - (b)	Rs. 370721
Fund Transferred	Rs. 370000

*11*  
*or*

Best regards,

*Deepak*  
 (Deepak Putrevu)

*Arundhati*  
 (Dr. Arundhati Misra)  
 GD, AMHEDG/EPSA

श्रीमती अरुंधति मिश्रा/ Smt. Arundhati Misra  
 Group Director  
 Earth, Ocean, Atmosphere, Planetary Science and Applications Area (EPSA)  
 Space Applications Centre (ISRO)  
 Ahmedabad / Government of India

*Wances*  
 Check for the  
 Accounts if the  
 funds have been  
 credited in the  
 Univ. A/c.

**1**  
 Forwarded to  
 Accounts cash to please  
 intimate if the amount  
 has been credited in to  
 University Chest  
 The S.O (In-charge)

*Shakil*  
 27/6

10) BUDGET BREAK-UP FOR UNIVERSITY OF KASHMIR

SR. No	ITEM DESCRIPTION	B.E. 2019-2020	B.E. 2020-21	B.E. 2021-22	TOTAL
1	JRF Salary (@ 31000 - in 2 years and 35000 - in 3rd year) + HRA (10% a)*	4,09,200	4,09,200	4,62,000	12,80,400
2	Travel (inclusive of Field work at selected study areas, visit to SAC for data analysis and meetings)	2,00,000	2,00,000	2,00,000	6,00,000
3	Contingency (Misc. expenditure)	50,000	50,000	50,000	1,50,000
4	Institutional Overhead (15%*)	98,880	98,880	1,06,800	3,04,560
	<b>Total</b>	<b>7,58,080</b>	<b>7,58,080</b>	<b>8,18,800</b>	<b>23,34,960</b>

Note: \*HRA for JRF/SRF and Institutional Overhead may vary according to the location and Institutional rules.



**“Identifying current and future GLOF risk over contrasting topographic and climatic zones of Indian Himalaya using earth observation data and modeling”**

**Funding agency: Ministry of Earth Sciences, Government of India.**

## Administrative order

MoES/PAMC/H&C/127/2019-PC-II  
Government of India  
Ministry of Earth Sciences

Prithvi Bhavan, Lodhi Road,  
New Delhi-110003  
Dated: 22/09/2022

### ADMINISTRATIVE ORDER

**Project Title:** Identifying current and future GLOF risk over contrasting topographic and climate zones of Indian Himalaya using earth observation data and modeling.

**PI:** Dr. Irfan Rashid, Senior Assistant Professor, Department of Geoinformatics, University of Kashmir, Hazratbal Srinagar, 190006, Srinagar, J&K, India.

**Co-PI:** Dr. Saurabh Vijay, Assistant Professor, Department of Civil Engineering, IIT Roorkee, Roorkee, 247667, Uttarakhand, India.

Approval of the competent authority is hereby conveyed under the Rule 18 of the Delegation of Financial Power Rules, 1978 for the implementation of the project entitled "Identifying current and future GLOF risk over contrasting topographic and climate zones of Indian Himalaya using earth observation data and modeling" jointly by University of Kashmir and IIT Roorkee at a total cost of Rs. 91,72,560/- (Rupees ninety one lakhs seventy two thousand, five hundred and sixty only) for a period of three years.

#### 2.0 Objectives:

- I. Quantifying the area and frontal changes of lake terminating glaciers using remote sensing data since the 1970s in the IHR.
- II. Quantifying the evolution of proglacial lakes (area, depth, and volume estimates) on different time scales.
- III. Assessing the impact of topographical, geomorphological, and climatic parameters and supraglacial debris on the glacier recession and formation of proglacial lakes.
- IV. Undertaking catchment-scale modeling for assessing the risk to downstream vulnerable communities around existing proglacial lakes of the IHR.

**2.1 Programme:** The proposed study aims to develop and implement a comprehensive methodological approach to investigate the evolution of glacial lakes in different time scales and their related hazard potential using physically-based models in contrasting climatological, geomorphological and topographic zones across the IHR. This will lead to improved understanding and prediction of lake formation, and associated hazards and risks in downstream areas consisting of human population and infrastructure

**2.2 Implementing Organizations:** The project will be implemented jointly by University of Kashmir, J&K and IIT Roorkee, Uttarakhand. Dr. Irfan Rashid, University of Kashmir, J&K will be the PI of the project and Dr. Saurabh Vijay, IIT Roorkee will be the Co-PI.

2.3 Estimated Project Cost: Total estimated cost of the project is Rs. 91, 72,560/- (Rs. 73, 10,440/- to University of Kashmir and Rs. 18, 62,120/- for IIT Roorkee) to University of Kashmir and IIT Roorkee for a period of three years. The year-wise/item-wise/institute-wise fund requirement is given below.

**Consolidated Budget**

Budget head	Year 1	Year 2	Year 3	Total (INR)
<b>A. Recurring Cost</b>				
1. Salary	11,11,680/-	11,11,680/-	12,19,200/-	34,42,560/-
2. Contingency	50,000/-	50,000/-	40,000/-	1,40,000/-
3. Travel/Fieldwork	2,00,000/-	2,00,000/-	2,00,000/-	6,00,000/-
4. Other Costs	2,00,000/-	1,00,000/-	50,000/-	3,50,000/-
<b>B. Non-Recurring Cost</b>				
5. Equipment	44,00,000/-	0	0	44,00,000/- #
<b>Total (A+B)</b>	<b>59,61,680/-</b>	<b>14,61,680/-</b>	<b>15,09,200/-</b>	<b>89,32,560/-</b>
C. Institutional Overhead (10%) on Recurring Cost	80,000/-	80,000/-	80,000/-	2,40,000/-
<b>Grand Total (INR)</b>	<b>60,41,680/-</b>	<b>15,41,680/-</b>	<b>15,89,200/-</b>	<b>91,72,560/-</b>

**University of Kashmir**

Budget head	Description	Year 1	Year 2	Year 3	Total (INR)
<b>A. Recurring Cost</b>					
1. Salaries	JRF - One @ Rs. 31,000/- p.m. + HRA 16% for 1 <sup>st</sup> and 2 <sup>nd</sup> year and Rs. 35,000/- + HRA 16%	4,31,520/-	4,31,520/-	4,87,200/-	13,50,240/-*
	TA- One @ Rs. 20,000/- HRA 16% for 3 years	2,78,400/-	2,78,400/-	2,78,400/-	8,35,200/-**
	<b>Total</b>	<b>7,09,920/-</b>	<b>7,09,920/-</b>	<b>7,65,600/-</b>	<b>21,85,440/-</b>
2. Contingency	Contingency	30,000/-	30,000/-	30,000/-	90,000/-
3. Travel/Fieldwork	Inland Travel	20,000/-	20,000/-	20,000/-	60,000/-
	Field Work	1,50,000/-	1,50,000/-	1,50,000/-	4,50,000/-
4. Other Costs					
a. Community-based workshops	To be organized at village level	50,000/-	50,000/-	0	1,00,000/-
b. Consumables	Consumables	25,000/-	25,000/-	25,000/-	75,000/-

<b>Total A</b>		9,84,920/-	9,84,920/-	9,90,600/-	29,60,440/-
<b>B. Non-Recurring Cost</b>					
<b>5. Equipment</b>	Echosounding Boat (1)	40,00,000/-	0	0	40,00,000/- #
	Laptops (1)	2,00,000/-	0	0	2,00,000/- #
	<b>Total (A+B)</b>	<b>51,84,920/-</b>	<b>9,84,920/-</b>	<b>9,90,600/-</b>	<b>71,60,440/-</b>
<b>C. Institutional Overhead (10%) on Recurring Cost</b>		50,000/-	50,000/-	50,000/-	1,50,000/-
<b>Grand Total (INR)</b>	<b>(A+B+C)</b>	<b>52,34,920/-</b>	<b>10,34,920/-</b>	<b>10,40,600/-</b>	<b>73,10,440/-</b>

#### IIT Roorkee

Budget head	Description	Year 1	Year 2	Year 3	Total (INR)
<b>A. Recurring Cost</b>					
<b>1. Salaries</b>	<i>JRF - One @ Rs. 31,000/- p.m. + HRA 8% for 1<sup>st</sup> and 2<sup>nd</sup> year and Rs. 35,000/- + HRA 8%</i>	4,01,760/-	4,01,760/-	4,53,600/-	12,57,120/-
<b>2. Contingency</b>	Contingency	20,000/-	20,000/-	10,000/-	50,000/-
<b>3. Travel/Fieldwork</b>	Inland travel	30,000/-	30,000/-	30,000/-	90,000/-
<b>4. Other Costs</b>					
a. Consumables	Consumables	25,000/-	25,000/-	25,000/-	75,000/-
b. Satellite data	Cartosat data for few sites	1,00,000/-	0	0	1,00,000/-
<b>Total A</b>		<b>5,76,760/-</b>	<b>4,76,760/-</b>	<b>5,18,600/-</b>	<b>15,72,120/-</b>
<b>B. Non-Recurring Cost</b>					
	Laptops (1)	2,00,000/-	0	0	2,00,000/- #
	<b>Total (A+B)</b>	<b>7,76,760/-</b>	<b>4,76,760/-</b>	<b>5,18,600/-</b>	<b>17,72,120/-</b>
<b>C. Institutional Overhead (10%) on Recurring Cost</b>		30,000/-	30,000/-	30,000/-	90,000/-
<b>Grand Total (INR)</b>	<b>(A+B+C)</b>	<b>8,06,760/-</b>	<b>5,06,760/-</b>	<b>5,48,600/-</b>	<b>18,62,120/-</b>

2.4 Project Manpower: The manpower proposed under this project is as follows:

#### University of Kashmir

- (i) JRF: One @ Rs. 31000/- pm + 16% HRA for 1<sup>st</sup> & 2<sup>nd</sup> year and Rs. 35,000/- + 16% HRA for 3<sup>rd</sup> year.

(ii) TA: One @Rs. 20,000/- pm + 16% HRA for 3 years

**IIT Roorkee**

(i) JRF: One @ Rs.31000/- pm + 8% HRA for 1<sup>st</sup> & 2<sup>nd</sup> year and Rs. 35,000/- + 8% HRA for 3<sup>rd</sup> year.

**2.5 Equipment:** This list of permanent equipment proposed to be purchased under this project is as follows:

Sl.	Equipment	Amount
(i)	Echosounding Boat (1)	Rs. 40,00,000/-
(ii)	Laptops (2)	Rs. 4,00,000/-
	<b>Total</b>	<b>Rs. 44,00,000/-</b>

**2.6 Time Schedule:** The project duration is three years 2022-23 to 2025-26.

**2.7 Work Elements and Schedule:** The work plan of the research project is given at Annexure-I.

**2.8 Description and manner in which the programme is proposed to be implemented:** The project will be implemented by University of Kashmir, J&K. Dr. Irfan Rashid, University of Kashmir, J&K will be the PI. Dr. Saurabh Vijay, IIT Roorkee will be the Co-PI of the project.

**3.0 Expenditure Head:**

The proposed expenditure will be debitable to the following heads of accounts:

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

Under Demand No. 24 of Ministry of Earth Sciences for the year 2022-23

**4.0 Other Terms and Conditions:**

- Allocation of budget is tentative and subject to availability of funds & change after review of the progress, both physical & financial, as recommended by the experts.
- Codal provisions for procurement of goods and services and requisitioning research personnel shall be ensured.
- Participating Institutes will also ensure that all relevant procedures are followed while implementing the programme.
- Expenditure, Advance and Transfer (EAT) module of PFMS should be activated for the grants released shall be provided to the MoES in the prescribed format as per GFR and their ownership shall vest in MoES.

- All equipments/assets procured from MoES funds shall be maintained in the stock Register and no asset/equipment etc. shall be diverted and/or disposed off without prior approval of the competent authority of the MoES.
- Procurement to be carried out by following end-to-end e-tendering for procurement of goods and services for value above Rs.2.00 Lakhs as per MOF Order No. 10/3/2012 PPC dated 09/01/2014.
- The grant-in-aid being released is subjected to the condition that a transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institutes/Organization under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above-mentioned project
- While submitting Utilization Certificate/Statement of Expenditure, the organization 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 grantee organization 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(\$ of GRF 2017 all interest or other earnings against Grants-in-aid released should be mandatorily remitted to the Consolidated Fund of India immediately after finalization of the accounts.
- The account of the grantee organization 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 MoES), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.
- The Institute/PI will furnish Annual Progress Report of the work on the project on yearly basis.

5.0 This order is issued under the powers delegated to this ministry and with the concurrence of IFD vide diary No. 218/IFD/9214/2022-23/REACHOUT dated 16/08/2022 and approval of the Secretary, Ministry of Earth Sciences vide diary No. 9214/Secy/2022-23/ dated 22/08/2022.

  
22/08/2022  
(Deen Dayal)

Under Secretary to the Govt. of India

To,  
The Pay and Account Officer, Ministry of Earth Sciences, Lodhi Road, New Delhi-110005.

Copy to:

1. Cash Section, Ministry of Earth Sciences.

2. The Principal Director of Audit (Scientific Department), AGCR Building, I.P. Estate, New Delhi-110002.
3. The Registrar, University of Kashmir, Hazratbal Srinagar, 190006, Srinagar, J&K, India.
4. Dr. Irfan Rashid, Senior Assistant Professor, Department of Geoinformatics, University of Kashmir, Hazratbal Srinagar, 190006, Srinagar, J&K, India.
5. The Director, IIT Roorkee, Roorkee, 247667, Uttarakhand, India.
6. Dr. Saurabh Vijay, Assistant Professor, Department of Civil Engineering, IIT Roorkee, Roorkee, 247667, Uttarakhand, India.
7. Controller of Accounts, MoES
8. AS&FA / JS/ Sci. G (GRJ) / Dir. (F) / AD (OL) / IFD, MoES
9. PPS to the Secretary, Ministry of Earth Sciences,
10. Sanction folder/ Guard file.

  
22/9/2022  
(Deen Dayal)

Under Secretary to the Govt. of India

## First release of payment

MoES/PAMC/H&C/127/2019-PC-II  
Government of India  
Ministry of Earth Sciences

Prithvi Bhavan, Lodi Road,  
New Delhi-110003  
Dated: 10/10/2022

### SANCTION ORDER

**Subject:** Financial support for the project entitled 'Identifying current and future GLOF risk over contrasting topographic and climatic zones of Indian Himalaya using earth observation data and modeling'.

**PI:** Dr. Ifan Rashid, Senior Assistant Professor, Department of Geoinformatics, University of Kashmir, Hazratbal Srinagar, 190006, Srinagar, J&K, India.

**Co-PI:** Dr. Sanabh Vijay, Assistant Professor, Department of Civil Engineering, IIT Roorkee, Roorkee, 247667, Uttarakhand, India.

In continuation to this Ministry's Administrative Order dated 22/09/2022 & SO No. MoES/REACHOUT/CNA/2022 dated 27<sup>th</sup> June, 2022, sanction of the competent authority is hereby accorded to the release of Rs. 50,78,200/- (Rupees Fifty lakhs, seventy eight thousand and two hundred only) to University of Kashmir, Srinagar (Rs. 45,75,800/-) and Indian Institute of Technology (IIT), Roorkee (Rs. 5,02,400/-) as the 1<sup>st</sup> year grant for the above-mentioned project during the current financial year 2022-23. The break-up of Rs. 50,78,200/- is as follows:-

Sl.	Items	University of Kashmir	IIT Roorkee
<b>A.</b>	<b>Recurring Cost</b>		
1.	Salary	2,95,800/-	1,67,400/-
2.	Contingency	10,000/-	10,000/-
3.	Travel/Field work		
a.	Inland Travel	20,000/-	--
b.	Field Work	20,000/-	--
4.	Others Costs		
a.	Community-based workshops	--	--
b.	Consumables	10,000/-	10,000/-
c.	Satellite Data (Cartosat data for few sites)	--	1,00,000/-
<b>B.</b>	<b>Non-recurring Cost</b>		
(i)	Echosounding Boat (1)	40,00,000/-	--
(ii)	Laptop (2)	2,00,000/-	2,00,000/-
<b>C.</b>	<b>Institutional Overhead (10% of Recurring Cost)</b>	20,000/-	15,000/-
	<b>Total (A+B+C)</b>	<b>Rs. 45,75,800/-</b>	<b>5,02,400/-</b>

2. The expenditure involved is debit to Demand No. 24 Ministry of Earth Sciences for the year 2022-23.

3425	Other Scientific Research (Major Head)
60	Others
60.200	Assistance to Other Scientific Bodies (Minor Head)

1  
H. Daniel  
17/10/2022



52	Research Education and Training Outreach
52.00.31	Grant-in-Aid-General

5. The amount of Rs. 50,78,200/- (Rupees Fifty lakhs, seventy eight thousand and two hundred only) will be drawn from the Central Nodal Agency CNA account (INCUBS REACHOUT Account) and will be disbursed to the Zero balance Subsidiary Account (KASHMIR UNIVERSITY REACHOUT PROGRAMME & DEAN SRIC HIT ROORKEE REACHOUT) through REAT/EAT module of PFMS for expenditure under the above-mentioned project. The bank details for electronic transfer of funds through RTGS are given below:-

Name of the Account	KASHMIR UNIVERSITY REACHOUT PROGRAMME	DEAN SRIC HIT ROORKEE REACHOUT
Name of the Bank	CANARA BANK	CANARA BANK
Branch	Srinagar B R Road Main, Hazra Commercial Complex, Residency Road, Jammu and Kashmir - 190001	26, Anaj Mandi, Roorkee - 247667, Uttarakhand
Type of Account	Savings Account	Savings Account
Account Number	110072824840	110058593821
IFSC Code	CNRB0001100	CNRB0002200
MICR Code	190015002	247015102
Branch Code		002200

4. As per rule 238(1) of GFR 2017 relating to UC's for the fund released are not applicable at this stage since the said institute would be receiving the grant for the aforesaid purpose for the first time.
5. University of Kashmir and HIT Roorkee will furnish to MoES a Utilization Certificate in the proforma prescribed as per GFR 2017 and audited statement of expenditure along with updated progress report (Vis-à-vis Target Vs-Achievement) at the end of each Financial year.
6. The grantee organization will have to enter & upload the Utilization certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent file installment 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. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by CKAG of India and Internal Audit by the Principal Accounts Office of the MoES) whenever the organization is called upon to do so, as laid down under Rule 236 (1) of GFR 2017.
8. The grantee Institute will ensure the compliance of OM. No. F.No. 1(18)PFMS/FCD/2021 dated March 9, 2022 of Department of Expenditure, Ministry of Finance.
9. As per the rule 234 of GFR 2017, the sanction has been entered at Page No. 75 Sl. No. 74 in the register of grants maintained in the scheme.
10. This issues under the powers delegated to this Ministry and with the concurrence of Integrated Finance Division MoES vide their Dy. No. 218/IFD/0214/2022-23/REACHOUT dated 16.08.2022 and approval of the Secretary, Ministry of Earth Sciences vide Diary No. 0214/Secy/2022-23 dated 22/08/2022.

*Manjula Daniel*  
12/10/2022

(Manjula Daniel)  
Under Secretary to the Govt. of India

To,  
The Pay and Account Officer, Pay and Account Office, Ministry of Earth Sciences, Prithvi Bhawan, Lodhi Road, New Delhi - 110003.

Copy to:

1. The Principal Director of Audit (Scientific Department), AGCR Building, I.P. Estate, New Delhi - 110002.
2. The Registrar, University of Kashmir, Hazratbal Srinagar, 190006, Srinagar, J&K, India.
3. Dr. Irfan Rashid, Senior Assistant Professor, Department of Geoinformatics, University of Kashmir, Hazratbal Srinagar, 190006, Srinagar, J&K, India.
4. The Director, IIT Roorkee, Roorkee, 247667, Uttarakhand, India.
5. Dr. Saumili Vijay, Assistant Professor, Department of Civil Engineering, IIT Roorkee, Roorkee, 247667, Uttarakhand, India.
6. The Director, INCOIS, (CNA-REACHOUT), "Ocean Valley", Pragathi Nagar (BO), Nizampet (SO), Hyderabad-500090.
7. Cash Section, MoES, New Delhi.
8. Controller of Accounts, MoES.
9. AS&FA / JS/ Sci. G (GR) Dir. (FY) AD (OL) IFD, MoES.
10. PPS to the Secretary, Ministry of Earth Sciences.
11. Sanction folder/ Guard file.

*M. Daniel*

17/10/2022

(Manjula Daniel)

Under Secretary to the Govt. of India

SK

## Second release of payment

MoES/PAMC/H&C/127/2019-PC-II  
Government of India  
Ministry of Earth Sciences

Prithvi Bhavan, Lodhi Road,  
New Delhi-110003  
Dated: 20.12.2023

### SANCTION ORDER

- Subject:** - Identifying current and future GLOF risk over contrasting topographic and climate zones of Indian Himalaya using earth observation data and modeling.
- PI:-** Dr. Irfan Rashid, Senior Assistant Professor, Department of Geoinformatics, University of Kashmir, Hazratbal Srinagar, 190006, Srinagar, J&K, India.
- Co-PI:-** Dr. Saurabh Vijay, Assistant Professor, Department of Civil Engineering, IIT Roorkee, Roorkee, 247667, Uttarakhand, India

In continuation to this Ministry's Administrative Order dated 22/09/2022, sanction of the competent authority is hereby accorded to the release of Rs. 9,63,480/- (Rupees Nine lakhs sixty thousand four hundred and eighty only) with Rs. 6,59,120/- to University of Kashmir and Rs. 3,04,360/- to IIT Roorkee as the remaining part payment of the 1<sup>st</sup> year grant for the above-mentioned project during the current financial year 2023-24.  
The break-up of Rs. 9,63,480/- is as follows:

S.No	Items	1 <sup>st</sup> year allocation as per A.O (INR)	1 <sup>st</sup> Amount released during F.Y.2022-23 (INR)		Balance amount for 1 <sup>st</sup> year to be released in F.Y. 2023-24 (INR)		Total remaining amount to be released (INR)
			University of Kashmir	IIT Roorkee	University of Kashmir	IIT Roorkee	
<b>A.</b>	<b>Recurring Cost</b>						
1.	Salary	11,11,680/-	2,95,800/-	1,67,400/-	4,14,120/-	2,34,360/-	6,48,480/-
2.	Contingency	50,000/-	10,000/-	10,000/-	20,000/-	10,000/-	30,000/-
3.	Travel/Field work						
a.	Inland Travel	2,00,000/-	20,000/-	---	---	30,000/-	1,60,000/-
b.	Field work		20,000/-	---	1,30,000/-		
4.	Other costs		---	---	50,000/-		50,000/-
a.	Community-based workshops	2,00,000/-	---	---	15,000/-	15,000/-	30,000/-
b.	Consumables		10,000/-	10,000/-	---	---	---
c.	Satellite Data (Cartosat data for few sites)		---	1,00,000/-	---	---	---
-	<b>Total A</b>	<b>1,56,16,800/-</b>	<b>3,55,800/-</b>	<b>2,87,400/-</b>	<b>6,29,120/-</b>	<b>2,89,360/-</b>	<b>9,18,480/-</b>
<b>B.</b>	<b>Non-recurring cost</b>						

*(Signature)*

(i)	Echosounding Boat (1)		40,000,00/-		---	---	---
(ii)	Laptop (2)	44,00,000/-	2,00,000/-	2,00,000/-	---	---	---
C.	Institutional Overhead	80,000/-	20,000/-	15,000/-	30,000/-	15000/-	45,000/-
	Total (A+B+C)	60,41,680/-	45,75,800/-	5,02,400/-	6,59,120	3,04,360/-	9,63,480/-

2. The expenditure involved is debatable to Demand No. 24. Ministry of Earth Sciences for the year 2023-24

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

3. The amount of Rs.9,63,480/- (Rupees Nine lakhs sixty-three thousand four hundred eighty only) will be drawn from the Central Nodal Agency CAN account (INCOIS REACHOUT Account) and will be disbursed to the Zero Balance Subsidiary Account (KASHMIR UNIVERSITY REACHOUT PROGRAMME & DEAN SRIC IIT ROORKEE REACHOUT) through REAT/EAT module of PFMS for expenditure under the above-mentioned project. The bank details for electronic transfer of funds through RTGS are given below:-

Name of the Account	Kashmir University REACHOUT Programme	Dean SRIC IIT Roorkee REACHOUT
Name of the Bank	CANARA BANK	CANARA BANK
Branch	Srinagar B R Road Main, Hazza Commercial Complex, Residency Road, Jammu and Kashmir-190001	26, Anaj Mandi, Roorkee-247667, Uttarakhand
Type of Account	Savings Account	Savings Account
Account Number	110072824840	110058593821
IFSC Code	CNRB0001190	CNRB0002200
MICR Code	190015002	247015102

4. As per rule 238(1) of GFR 2017 relating to UC's for the fund released are not applicable at this stage since the said institute would be receiving the grant for the aforesaid purpose for the first time.

5. University of Kashmir and IIT Roorkee will furnish to MoES a Utilization Certificate in the proforma prescribed as per GFR 2017 and audited statement of expenditure along with updated progress report (Vis-à-vis Target Vs- Achievement) at the end of each financial year.

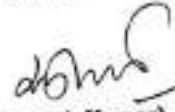
6. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent file/installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization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

7. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C & AG of India and Internal Audit by the Principal Account Office of the MoES), whenever the organization is called upon to do so, as laid down under Rule 236 (1) of GFR 2017.

8. The grantee Institute will ensure the compliance of OM.No.F.No.1 (18)/PFMS/FCD/02021 dated March 9, 2022 of Department of Expenditure, Ministry of Finance.

9. As per the rule 234 of GFR 2017, the sanction has been entered at page No. 61, Serial No. 25 in the register of grants maintained in the scheme.


10. This issues under the powers delegated to this Ministry and with the concurrence of Integrated Finance Division MoES vide their Dy. No. 526(R)/IFD/9214/2023-24/REACHOUT dated 18.12.2023 and approval of the Secretary, Ministry of Earth Sciences vide Diary No. 9214/Secy/2023-24 dated 22.08.2022.

  
(Ramesh Kumar) 20/11/23  
Under Secretary to the Govt. of India

To,  
The Pay and Account Officer, Pay and Account Office, Ministry of Earth Sciences, Prithvi Bhawan, Lodhi Road, New Delhi 110003

Copy to:

1. The Principal Director of Audit (Scientific Department), AGCR Building, I.P.Estate, New Delhi-110002.
2. The Registrar, University of Kashmir, Hazratbal Srinagar, 190006, Srinagar, J&K, India.
3. Dr. Irfan Rashid, Senior Assistant Professor, Department of Geoinformatics, University of Kashmir, Hazratbal Srinagar, 190006, Srinagar, J&K, India.
4. The Director, IIT Roorkee, Roorkee, 247667, Uttarakhand, India.
5. Dr. Saurabh Vijay, Assistant Professor, Department of Civil Engineering, IIT Roorkee, Roorkee, 247667, Uttarakhand, India.
6. The Director INCOIS (CAN-REACHOUT), "Ocean Valley", Pragathi Nagar (BO), Nizampet (SO), Hyderabad-500090.
7. Cash Section, MoES, New Delhi.
8. Controller of Accounts, MoES
9. AS & FA /JS/Sci.G (GRI)/Dir. (FV) AD (OL) IFD, MoES
10. PPS to the Secretary, Ministry of Earth Sciences.
11. Sanction folder / Guard file.

  
(Ramesh Kumar) 20/11/23  
Under Secretary to the Govt. of India

## Utilization certificate and Statement of expenditure for year 2022 – 2023

### UTILISATION CERTIFICATE

(For the the period From 10<sup>th</sup> October 2022 To 31<sup>st</sup> March 2023)

(Amount in Rs.)

1. Title of the Project/Scheme: “ **Identifying Current and Future Glof Risk over Contrasting Topographic and Climate Zones of Indian Himalaya Using Earth Observation Data and Modeling**”
2. Name of the Organization: **Department of Geoinformatics, University of Kashmir J&K.**
3. Principal Investigator: **Dr. Irfan Rashid**
4. Ministry of Earth Sciences (MoES) letter No. and date of sanction of the Project/Scheme:  
**MoES/PAMC/H&C/127/2019-PC-II Dated: 10.10.2022**
5. Amount brought forward from the previous financial year quoting MoES’s letter No. & date of sanction order showing the amount paid : **Rs. Nil**
6. Amount received from MoES during the financial year (Please give No. & date of sanction orders showing the amount paid) : **Rs. 45,75,800.00**
7. Other receipts/interest earned, if any on the MoES grants : **Rs. Nil**
8. Total amount that was available for expenditure incurred during the financial year (S.No. 5+6 -7) : **Rs. 45,75,800.00**
9. Actual expenditure (excluding commitments) incurring during the financial year (Statement of expenditure is enclosed) : **Rs. Nil**
10. Unspent balance refunded, if any (Please give details ) : **Rs. Nil**
11. Balance amount available at the end of the financial year : **Rs. 45,75,800.00**
12. Amount allowed to be carried forward to the next financial year vide letter No. & date : **Rs. 45,75,800.00**

P.T.O.

13. Certified that the amount of Rs. Nil mentioned against col. 9 has been utilized on the project/scheme for the purpose for which it was sanctioned and that the balance of Rs. 45,75,800.00 ( Rupees Forty Five Lakh Seventy Five Thousand Eight Hundred Only) remaining unutilized at the end of the year will be adjusted toward the grants in aid payable during next year.

14. Certified that rules under GFR have been followed for procuring the equipments under the project.

15. Certified that we have satisfied ourselves that the condition on which the grants in aid was sanctioned have been duly fulfilled /are being fulfilled and for procuring the equipment's under the project, rules under GFR are followed and that we have exercised the following checks to see that money was actually utilized for the purpose for which it was sanctioned.

Kinds of checked exercised:

1. All usual audit checks.


Date: 23.10.2023

  
Dr. Irfan Rashid (PI)  
MoES Sponsored Project  
Department of Geoinformatics  
University of Kashmir  
Signature of Project  
Investigator

  
Signature of  
Dean Research  
University of Kashmir

Signature of  
Chartered Accountant



  
Signature of  
Director Finance

(To be counter signed by MoES officer-in charge)

**Statement of Expenditure referred to in para-9 of the Utilization Certificate  
Expenditure incurred during the period from 10<sup>th</sup> October 2022 To 31<sup>st</sup> March 2023**

S. No	Item	Unspent Balance carried forward from the previous year	Grants received from MoES during the year	Other receipts interest earned if any	Total of Col 2 to 4	Expenditure excluding commitments incurred during the year	Balance (6-7)	REMARKS
1	2	3	4	5	6	7	8	9
A.	Non Recurring	-	₹ 4,000,000.00	-	₹ 4,000,000.00	-	₹ 4,000,000.00	Manpower budget head may be revised because the hike/provision for HRA & fellowship as applicable from 01.01.2023 vide order no.SR/59/2-08/2018 dated
1	Echospending Bow	-	₹ 200,000.00	-	₹ 200,000.00	-	₹ 200,000.00	
2	Laptop	-	₹ 200,000.00	-	₹ 200,000.00	-	₹ 200,000.00	
B.	Recurring	-	₹ 295,800.00	-	₹ 295,800.00	-	₹ 295,800.00	
3	Salary	-	₹ 10,000.00	-	₹ 10,000.00	-	₹ 10,000.00	
4	Contingency	-	₹ 20,000.00	-	₹ 20,000.00	-	₹ 20,000.00	
4	Inland Travel	-	₹ 20,000.00	-	₹ 20,000.00	-	₹ 20,000.00	
5	Field Work	-	₹ 10,000.00	-	₹ 10,000.00	-	₹ 10,000.00	
7	Consumables	-	₹ 20,000.00	-	₹ 20,000.00	-	₹ 20,000.00	
7	Overhead Charges	-	₹ 20,000.00	-	₹ 20,000.00	-	₹ 20,000.00	
8	Interest earned accrued	-	-	₹ -	₹ -	-	₹ -	
9	Total	-	₹ 4,595,800.00	-	₹ 4,595,800.00	-	₹ 4,595,800.00	

**W. S. Shamsul Haid (PI)**

MOES Sponsored Project  
Department of Geoinformatics  
Principal, University of Kashmir

Place : Srinagar  
Date : 23.10.2023

*[Signature]*  
Dean Research  
Dean Research  
University of Kashmir





## Utilization certificate and Statement of expenditure for year 2023 – 2024

GFR 12 – A

[(See Rule 238 (1)]

### FORM OF UTILIZATION CERTIFICATE FOR AUTONOMOUS BODIES OF THE GRANTEE ORGANIZATION

UTILIZATION CERTIFICATE FOR THE YEAR 01-04-2023 to 31-03-2024 in respect  
of recurring/non-recurring  
GRANTS-IN-AID/SALARIES/CREATION OF CAPITAL ASSETS

1. Name of the project/Scheme **\*Identifying Current and Future GLOF Risk over Contrasting Topographic and Climate Zones of Indian Himalaya Using Earth Observation Data and Modeling\***
2. Whether recurring or non-recurring grants : Both
3. Grants position at the beginning of the Financial year
  - (i) Cash in Hand/Bank Rs. 45,75,800.00
  - (ii) Unadjusted advances Rs. Nil
  - (iii) Total Rs. 45,75,800.00
4. Details of grants received, expenditure incurred and closing balances (Actuals)

Unspent Balances of Grants received years [figure as at Sl.No. 3 (iii)]	Interest Earned thereon	Interest deposited back to the Government	Grant received during the year			Total Available funds (1+2-3+4)	Expenditure incurred	Closing Balances (5-6)
			Sanction No (i)	Date (ii)	Amount (iii)			
1	2	3	4			5	6	7
45,75,800.00	-	-	MoES/PAMC/II & C/127/2019-PC-II	20.12.2023	6,59,120.00	52,34,920.00	51,68,178.00	66,742.00

Component wise utilization of grants:

Grant-in-aid-General	Grant-in-aid-Salary	Grant-in-aid-creation of capital assets	Total
2,74,992.00	6,94,166.00	41,99,020.00	51,68,178.00

Details of grants position at the end of the year

- (i) Cash in Hand/Bank Rs. 46,742.00
- (ii) Unadjusted Advances. Rs. Nil
- (iii) Total Rs. 46,742.00

Continue on Page No 2

Certified that I have satisfied myself that the conditions on which grants were sanctioned have been duly fulfilled/are being fulfilled and that I have exercised following checks to see that the money has been actually utilized for the purpose for which it was sanctioned:

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (vii) It has been ensured that the physical and financial performance under "Identifying Current and Future GLOF Risk over Contrasting Topographic and Climate Zones of Indian Himalaya Using Earth Observation Data and Modeling" (name of the scheme has been according to the requirements, as prescribed in the guidelines issued by Govt. of India and the performance/targets achieved statement for the year to which the utilization of the fund resulted in outcomes given at Annexure-1 duly enclosed.
- (viii) The utilization of the fund resulted in outcomes given at Annexure - II duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/specifications.)
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries is enclosed at Annexure-(to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date: 08-04-2024

Place: Srinagar

  
Dr. Inayat Rashid (PI)  
MoES Sponsored Project  
Department of Geoinformatics  
University of Kashmir

Signature of Principal Investigator

  
Signature of Dean Research  
  
Dean Research  
University of Kashmir

CAS

  
Signature of Director Finance  


  
Signature of Chartered Accountant  


**UTILISATION CERTIFICATE**  
(For the period from 1<sup>st</sup> April 2023 to 31<sup>st</sup> March 2024)

(Amount in Rs.)

1. Title of the Project/Scheme: **"Identifying Current and Future GLOF Risk over Contrasting Topographic and Climate Zones of Indian Himalaya Using Earth Observation Data and Modeling"**
2. Name of the Organization: **Department of Geoinformatics, University of Kashmir J&K.**
3. Principal Investigator: **Dr. Irfan Rashid**
4. Ministry of Earth Sciences (MoES) letter No. and date of sanction of the Project/Scheme:  
**MoES/PAMC/H&C/127/2019-PC-II Dated: 10.10.2022**
5. Amount brought forward from the previous financial year quoting MoES's letter No. & date of sanction order showing the amount paid : **Rs. 45,75,800.00**
6. Amount received from MoES during the financial year (Please give No. & date of sanction orders showing the amount paid) : **Rs. 6,59,120.00**
7. Other receipts/interest earned, if any on the MoES grants : **Rs. Nil**
8. Total amount that was available for expenditure incurred during the financial year (S.No. 5+6 -7) : **Rs. 52,34,920.00**
9. Actual expenditure (excluding commitments) incurring during the financial year (Statement of expenditure is enclosed) : **Rs. 51,68,178.00**
10. Unspent balance refunded, if any (Please give details ) : **Rs. Nil**
11. Balance amount available at the end of the financial year : **Rs. 66,742.00**
12. Amount allowed to be carried forward to the next financial year vide letter No. & date : **Rs. 66,742.00**

P.T.O.

Certified that the amount of Rs. 51,68,178.00 (Rupees Fifty One Lakh Sixty Eight Thousand One Hundred Seven Eight Only) mentioned against col. 9 has been utilized on the project/scheme for the purpose for which it was sanctioned and that the balance of Rs. 66,742.00 ( Rupees Sixty Six Thousand Seven Hundred Forty Two Only) remaining unutilized at the end of the year will be adjusted toward the grants in aid payable during next year.

14. Certified that rules under GFR have been followed for procuring the equipments under the project.

15. Certified that we have satisfied ourselves that the condition on which the grants in aid was sanctioned have been duly fulfilled /are being fulfilled and for procuring the equipment's under the project, rules under GFR are followed and that we have exercised the following checks to see that money was actually utilized for the purpose for which it was sanctioned.


Kinds of checked exercised:

1. All usual audit checks.

Date: 08.04.2024

  
Dr. Irfan Rashid (PI)  
MoES Sponsored Project  
Department of Geoinformatics  
University of Kashmir  
Signature of Project  
Investigator

  
Signature of  
Dean Research  
University of Kashmir

  
Signature of  
Chartered Accountant



45  
  
Signature of  
Director Finance  
The University of Kashmir

(To be counter signed by MoES officer-in charge)

**Statement of Expenditure referred to in serial 9 of the Utilization Certificate.  
Expenditure incurred during the period from 1<sup>st</sup> April 2023 To 31<sup>st</sup> March 2024**

S. No	Item	Unspent Balance carried forward from the previous year	Grants received from MoES during the year	Other receipts Interest earned If any	Total of Col 2 to 4	Expenditure excluding commitments incurred during the year	Balance (6-7)	Remarks
1	2	3	4	5	6	7	8	9
A.	Non Recurring							
1	Endowment Base	₹ 4,000,000.00	₹ -	₹ -	₹ 4,000,000.00	₹ 3,999,020.00	₹ 980.00	
2	Laptop	₹ 200,000.00	₹ -	₹ -	₹ 200,000.00	₹ 200,000.00	₹ -	
B.	Recurring							
3	Salary	₹ 295,400.00	₹ 414,120.00	₹ -	₹ 709,520.00	₹ 694,166.00	₹ 15,354.00	
	Contingency	₹ 10,000.00	₹ 20,000.00	₹ -	₹ 30,000.00	₹ 30,000.00	₹ -	
4	Inland Travel	₹ 20,000.00	₹ -	₹ -	₹ 20,000.00	₹ 19,996.00	₹ 4.00	
5	Field Work	₹ 10,000.00	₹ 15,000.00	₹ -	₹ 25,000.00	₹ 25,000.00	₹ -	
7	Overhead Charges	₹ 20,000.00	₹ 30,000.00	₹ -	₹ 50,000.00	₹ 50,000.00	₹ -	
8	Community Based Workshop	₹ -	₹ 20,000.00	₹ -	₹ 20,000.00	₹ -	₹ 20,000.00	
9	Interest earned/ received	₹ -	₹ -	₹ -	₹ -	₹ -	₹ -	
	<b>Total</b>	₹ 4,575,800.00	₹ 689,120.00	₹ -	₹ 5,264,920.00	₹ 5,168,178.00	₹ 66,742.00	

**Dr. Irfan Rashid (PI)**  
MoES Sponsored Project  
Department of Geoinformatics  
University of Kashmir  
Principal Investigator

Place : Srinagar  
Date : 08.04.2024

*[Signature]*  
Dean Research  
University of Kashmir

*[Signature]*  
Director Finance  
University of Kashmir

*[Signature]*  
Chartered Accountant

**“Permafrost distribution and dynamics over Jammu and Kashmir Himalaya  
from remote sensing, in-situ measurements and machine learning”**

**Funding agency: Science and Engineering Research Board, Department of  
Science & Technology, Government of India.**

# Administrative Order

FILE NO. CPQ/2020/00063  
**SCIENCE & ENGINEERING RESEARCH BOARD (SERB)**  
 (A statutory body of the Department of Science & Technology, Government of India)

6 & 5A, Lower Ground Floor  
 Vasant Square Mall  
 Plot No. A, Community Centre  
 Sector-5, Pocket-4, Vasant Kunj  
 New Delhi-110070

Dated: 31-Dec-2020

**ORDER**

Subject: Financial sanction of the research project titled "Permafrost distribution and dynamics over Jammu and Kashmir Himalaya from remote sensing, in-situ measurements and machine learning" under the guidance of Dr. Irfan Nashed, Earth Sciences, Kashmir University, Hazratbal rd, Hazratbal, Srinagar, JK, Srinagar, Jammu and Kashmir-190008 - 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. 5817040/- (Rs. Fifty Eight Lakh Seventeen Thousand and Forty Only) with break-up of Rs. 1450000/- under Capital (Non-recurring) head and Rs. 4367040/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 5817040/- has been approved are given below:

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	
1	Equipment → Camping gear → GPS → Rugged Terrian Laptop → Temperature Data Loggers	1450000
<b>A</b>	<b>Total (Non-Recurring)</b>	<b>1450000</b>
<b>B</b>	<b>Recurring Items</b>	
1	Recurring - I : (Manpower)	2389040
	Recurring - II : (Consumables, Travel, Contingencies, Other Cost)	1450000
	Recurring - III : Scientific Social Responsibility	0
2	Recurring - IV : (Overhead Charges)	528000
<b>B</b>	<b>Total (Recurring)</b>	<b>4367040</b>
<b>C</b>	<b>Total cost of the project (A + B)</b>	<b>5817040</b>

2. Sanction of the SERB is also accorded to the payment of Rs. 1450000/- (Rupees Fourteen Lakh only) under 'Grants-in-aid General' to Dean, Research, Kashmir University, Hazratbal Rd, Hazratbal, Srinagar, JK being the first instalment of the grant for the year 2020-2021 for implementation of the said research project.

3. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER). This release is being made under Core Research Grant (PAC Earth & Atmospheric Sciences)

4. The Sanction has been issued to Kashmir University, Hazratbal Rd, Hazratbal, Srinagar, JK with the approval of the competent authority under delegated powers on 30 December, 2020 and vide Diary No. SERB/F/6710/2020-2021 dated 30 December, 2020.

5. 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))

6. 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.

7. 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.

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

9. As per rule 2B of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

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

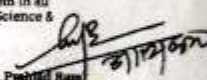
11. The release amount of Rs. 1450000/- (Rupees Fourteen Lakh only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their bank details given below:

PFMS Unique Code	UNDKashmir
------------------	------------

DA /

Account Name	Dean Research University of Kashmir
Account Number	90070400000007
Bank Name & Branch	Jammu and Kashmir Bank Limited University Campus Hazratbal Srinagar 190006 Jammu and Kashmir
IFSC/RTGS Code	JAKA0NASEEM
Email id of A/C Holder	deanresearch@uok.edu.in
Email id of PI	irfangis@kashmiruniversity.ac.in

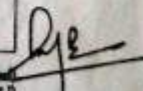
13. The institute will furnish to the SERB, separate Utilization certificate(UC) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.
13. 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.
14. The project file no. CRG/2020/00063 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.
15. The manpower sanctioned in the project, if any is co-terminous with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project.
16. As this is the first grant being released for the project, no previous U/C is required.
17. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.
18. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board should invariably be highlighted/acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.
19. 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 the Science & Engineering Research Board.

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

To,  
 Under Secretary  
 SERB, New Delhi

Copy forwarded for information and necessary action to:-

1.	The Principal Director of Audit, A.G.C.R. Building, 11th Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Dr. Irfan Rashid Earth Sciences Kashmir University, Hazratbal rd, hazaratbal, srinagar, jk, Srinagar, Jammu and Kashmir-190006 Email: irfangis@kashmiruniversity.ac.in Mobile: 919016899952 (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 Rd, Hazaratbal, Srinagar, JK (Receipt of Grant may be intimated by name to the undersigned)

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




## First release of payment

University of Kashmir  
Irfan Rashid <irfangis@kashmiruniversity.ac.in>

NEFT UTR/ TRANS No. RBI3672074175028 -- File No. CRG/2020/000053

Administrator@serbonline.in <SERB\_Administrator@serbonline.in> Tue, Jan 12, 2021 at 12:20 P  
info1@gmail.com

 **Science and Engineering Research Board**  
(Statutory Body Established Through an Act of Parliament : SERB Act 2006)  
Department of Science and Technology, Government of India

Dear Sir/Madam,

I am directed to refer to Science & Engineering Research Board (SERB) sanction order no **CRG/2020/000053** dated **30 December, 2020** and forward here with the following for information and necessary action:

RTGS/NEFT UTR/Transaction no. **RBI3672074175028** dated 31 December, 2020.  
Rs. 1400000/- (Fourteen Lakh ) transferred to A/c No. : 0007040500000057 , Bank Name/Branch : Jammu and Kashmir Bank Limited ,University Campus Hazratbal Srinagar 190006 Jammu and Kashmir  
SERB/F/6710/2020-2021

CONFIRMATION OF RECEIPT OF GRANTS MAY KINDLY BE SENT BY EMAIL ONLY.SEPARATE Utilization Certificates (UCs) for Recurring and Non-Recurring Grants (even if DISBURSED BY SERB THROUGH ONE SANCTION ORDER for your project) should be uploaded online within twelve months of the closure of the financial year in which the grants were released irrespective of whether the subsequent installment of grant is due for release or not.However, if any unspent balance is to be refunded, kindly ensure that the un-utilized amount may be refunded immediately by way of an a/c payee cheque/DD drawn in favour of **"Fund for Science & Engineering Research"**, payable at New Delhi and forwarded to the undersigned at the address given below :

The Finance & Budget Officer  
Science & Engineering Research Board (SERB)  
5 & 5A, Lower Ground Floor, Vasant Square Mall,  
Vasant Kunj, New Delhi 110070

\*\*\*\*\* LEGAL DISCLAIMER \*\*\*\*\*

Please do not reply to this mail !!

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## Utilization certificate and Statement of expenditure for year 2020-21

### **REQUEST FOR ANNUAL INSTALLMENT WITH UP-TO-DATE STATEMENT OF EXPENDITURE**

1. SERB Sanction Order No and date : No.CRG/2020/000053 Date: 31- Dec-2020
2. Name of the PI : Dr. Irfan Raahid
3. Total Project Cost : Rs. 58,17,040.00
4. Revised Project Cost (if applicable) : Rs. Nil
5. Date of Commencement : 31<sup>st</sup> -December- 2020
6. Statement of Expenditure : 2020-21  
(Month wise expenditure incurred during current financial year)

Month & year	Expenditure incurred
31 <sup>st</sup> December 2020 To 31 <sup>st</sup> March 2021	Rs. 1,77,680.00

1. Grant received in each year:
  - a. 1st Year : Rs.30,50,000.00
  - b. 2nd Year : Rs. NA
  - c. 3rd Year : Rs. NA
  - d. Interest, if any : Rs. 20,824.00
  - e. Total (a+b+c+d) : Rs. 30,70,824.00

**RECURRING**  
**GFR 12 - A**  
 [[See Rule 238 (1)]]  
**UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2020-21**  
 In respect of **RECURRING**  
 as on 31/03/2021 to be submitted to SERB  
 The UC is **Audited**  
 (Submitted for the financial year from 31<sup>st</sup> December 2020 to 31<sup>st</sup> March 2021)

1. Name of the grant receiving Organization: University of Kashmir, Srinagar (J&K)
2. Name of Principal Investigator(PI): Dr. Irfan Rashid
3. SERB Sanction order no. & date : CRG/2020/000053 Dated: 31- Dec-2020
4. Title of the Project: "Permafrost distribution and dynamics over Jammu and Kashmir Himalaya from remote sensing in-situ measurement and machine learning"
5. Name of the SERB Scheme: CRG
6. Whether recurring or non-recurring grants: **Recurring**
7. Grants position at the beginning of the Financial year (Grants released by SERB)
  - i. Cash In Hand/Bank /Carry forward from previous financial year :Rs. Nil
  - ii. Others, if any : Rs. Nil
  - iii. **Total** : Rs. Nil
8. Details of grants received, expenditure incurred and closing balances: (Actuals)

Unspent Balance of Grants received previous years [figure as at Sl. No. 7(iii)]	Interest earned thereon	Interest deposited back to the SERB	Grants received during the year			Total Available funds (1+2-3+4)	Expenditure incurred	Closing Balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
1	2	3	4			5	6	7
-	20,824.00	-	CRG/2020/000053	31-Dec-2020	14,00,000.00	14,20,824.00	1,77,680.00	12,43,144.00

Component wise utilization of grants:

	Total
Grants-in-aid-General	1,77,680.00

Details of grants position at the end of the year

- i. Cash in Hand/Bank : Rs. 12,43,144.00
- ii. Refunded to SERB, if any : Rs. Nil
- iii. Balance (Carry forward to next financial year) : Rs. 12,43,144.00

Dr. Irfan Rashid (PI) Signature of PI Department of Geoinformatics University of Kashmir	 Signature with Seal Name: Dr. Irfan Rashid Chief Finance Officer Head of Finance	 Signature with Seal Name: ..... Head of Organization	 Signature Chartered Accountant
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**GFR 12 - A**  
**[(See Rule 238 (1))]**  
**UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2020-21**  
**In respect of RECURRING**  
**as on 31/03/2021 to be submitted to SERB**

**The UC is Audited**  
*(Submitted for the financial year from 31<sup>st</sup> December 2020 to 31<sup>st</sup> March 2021)*

I certify that I have satisfied that the conditions on which grants were sanctioned have been duly fulfilled and that I have exercised following checks to see that the money has been actually utilized for the purpose for which it was sanctioned.

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (vii) It has been ensured that the physical and financial performance under CRG (Name of the scheme has been according to the requirements, as prescribed in the guidelines issued by Govt. of India and the performance/targets achieved statement for the year to which the utilization of the fund resulted in outcomes given at Annexure- I duly enclosed.
- (viii) The utilization of the fund resulted in outcomes given at Annexure - II duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/specifications.)
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries is enclosed at Annexure- II (to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date: 7<sup>th</sup> July 2022

Place: Srinagar

<p><i>[Signature]</i>                  Signature of PI: .....</p> <p><b>Dr. Irfan Rashid (PI)</b>                  SERB-DST Sponsored Project                  Department of Geoinformatics                  University of Kashmir                  (Strike out inapplicable terms)</p>	<p><i>[Signature]</i>                  Signature with Seal: .....</p> <p>Name: .....</p> <p><b>Chief Finance Officer</b>                  (Head of Finance)</p>	<p><i>[Signature]</i>                  Signature with Seal: .....</p> <p>Name: .....</p> <p><b>Head of Organization</b></p>	<p><i>[Signature]</i>                  Signature                  Chartered Accountant</p>
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GFR 12 - A  
 [(See Rule 238 (1))]  
**UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2020-21**  
**in respect of NON RECURRING**  
**as on 31/03/2021 to be submitted to SERB**

The UC is Audited  
 (Submitted for the financial year from 31<sup>st</sup> December 2020 to 31<sup>st</sup> March 2021)

Certified that I have satisfied that the conditions on which grants were sanctioned have been duly fulfilled/are being fulfilled and that I have exercised following checks to see that the money has been actually utilized for the purpose for which it was sanctioned:

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (vii) It has been ensured that the physical and financial performance under CRG (Name of the scheme has been according to the requirements, as prescribed in the guidelines issued by Govt. of India and the performance/targets achieved statement for the year to which the utilization of the fund resulted in outcomes given at Annexure- I duly enclosed.
- (viii) The utilization of the fund resulted in outcomes given at Annexure - II duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/specifications.)
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries is enclosed at Annexure- II (to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date: 7<sup>th</sup> July 2022

Place: Srinagar

<p>Signature of PI  <b>M. Irfan Rashid (PI)</b>          2B-DST Sponsored Project          Department of Geoinformatics          University of Kashmir</p>	<p>Signature with Seal          Name: .....          Chief Finance Officer          (Head of Finance)</p>	<p>Signature with Seal          Name: .....          Head of Organization</p>	<p>Signature          Chartered Accountant</p>
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(Strike out inapplicable terms)

**NON RECURRING**  
**GFR 12 - A**  
**[See Rule 228 (1)]**  
**UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2020-21**  
**In respect of NON RECURRING**  
**as on 31/03/2021 to be submitted to SERB**

**The UC is Audited**  
*(Submitted for the financial year from 31<sup>st</sup> December 2020 to 31<sup>st</sup> March 2021)*

1. Name of the grant receiving Organization: **University of Kashmir, Srinagar (J&K)**
2. Name of Principal Investigator(PI): **Dr. Irfan Rashid**
3. SERB Sanction order no. & date: **CRG/2020/000053 Dated: 31- Dec-2020**
4. Title of the Project: **"Permafrost distribution and dynamics over Jammu and Kashmir Himalaya from remote sensing in-situ measurement and machine learning"**
5. Name of the SERB Scheme: **CRG**
6. Whether recurring or non-recurring grants: **Non Recurring**
7. Grants position at the beginning of the Financial year (Grants released by SERB)
 

i.	Cash In Hand/Bank /Carry forward from previous financial year	Rs.	Nil
ii.	Others, if any	Rs.	Nil
iii.	<b>Total</b>	Rs.	Nil

8. Details of grants received, expenditure incurred and closing balances: (Actuals)

Unspent Balance of Grants received previous years (figure as at Sl. No. 7(ii))	Interest earned thereon	Interest deposited back to the SERB	Grants received during the year			Total Available funds (1+2-3+4)	Expenditure incurred	Closing Balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
1	2	3	4	5	6	7		
			CRG/2020/000053	31-Dec-2020	16,50,000.00	16,50,000.00	-	16,50,000.00

Component wise utilization of grants:

Grants-in-aid-Creation for Capital assets	Total
-	-

Details of grants position at the end of the year

- |      |  |     |              |
|------|--|-----|--------------|
| i.   | Cash in Hand/Bank                              | Rs. | 16,50,000.00 |
| ii.  | Refunded to SERB, if any                       | Rs. | Nil          |
| iii. | Balance (Carry forward to next financial year) | Rs. | 16,50,000.00 |

<p><i>Irfan Rashid</i>          Signature of PI: _____  <b>Dr. Irfan Rashid (PI)</b>          SERB-DST Sponsored Project          Department of Geoinformatics          University of Kashmir</p>	<p><i>[Signature]</i>          Signature: _____          Name: _____          Chief Finance Officer          (Head of Finance)</p>	<p><i>[Signature]</i>          Signature with Seal: _____          Name: _____          Head of Organization</p>	<p><i>[Signature]</i>          Signature          Chartered Accountant</p>
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**NON RECURRING**  
**GFR 12 - A**  
**[See Rule 228 (1)]**  
**UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2020-21**  
**In respect of NON RECURRING**  
**as on 31/03/2021 to be submitted to SERB**  
**The UC is Audited**  
*(Submitted for the financial year from 31<sup>st</sup> December 2020 to 31<sup>st</sup> March 2021)*

1. Name of the grant receiving Organization: **University of Kashmir, Srinagar (J&K)**
2. Name of Principal Investigator(PI): **Dr. Irfan Rashid**
3. SERB Sanction order no. & date : **CRG/2020/000053 Dated: 31- Dec-2020**
4. Title of the Project: **"Permafrost distribution and dynamics over Jammu and Kashmir Himalaya from remote sensing in-situ measurement and machine learning"**
5. Name of the SERB Scheme: **CRG**
6. Whether recurring or non-recurring grants: **Non Recurring**
7. Grants position at the beginning of the Financial year (Grants released by SERB)
 

i.	Cash In Hand/Bank /Carry forward from previous financial year	Rs.	Nil
ii.	Others, if any	Rs.	Nil
iii.	<b>Total</b>	Rs.	Nil

8. Details of grants received, expenditure incurred and closing balances: (Actuals)

Unspent Balance of Grants received previous years (Figure as at Sl. No. 7(ii))	Interest earned thereon	Interest deposited back to the SERB	Grants received during the year			Total Available funds (1+2-3+4)	Expenditure incurred	Closing Balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
1	2	3	4	5	6	7		
			CRG/2020/000053	31-Dec-2020	16,50,000.00	16,50,000.00	-	16,50,000.00

Component wise utilization of grants:

Grants-in-aid-Creation for Capital assets	Total
-	-

- Details of grants position at the end of the year
- |      |  |     |              |
|------|--|-----|--------------|
| i.   | Cash in Hand/Bank                              | Rs. | 16,50,000.00 |
| ii.  | Refunded to SERB, if any                       | Rs. | Nil          |
| iii. | Balance (Carry forward to next financial year) | Rs. | 16,50,000.00 |

Signature of PI: _____ <b>Dr. Irfan Rashid (PI)</b> SERB-DST Sponsored Project Department of Geoinformatics University of Kashmir	Signature with Seal: _____ Name: _____ <b>Chief Financial Officer</b> (Head of Finance)	Signature with Seal: _____ Name: _____ <b>Head of Organization</b>	Signature _____ <b>Chartered Accountant</b>
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**Statement of Expenditure**  
(Submitted for the financial year DOS\* 31st December 2020 to 31st March 2021 of the financial year 2020-21)

Sl. No.	Sanctioned Heads	Total Funds Allocated (Indicate Sanctioned or revised)	Expenditure Incurred			Total Expenditure incurred	Balance as on 31st March 2021	Requirement of Funds upto 31st March 2022	Remarks
			1st Year (DOS* 31st December 2020 To 31st March 2021)	2nd Year (1st April To 31st March Next Year )	3rd Year (1st April To 31st March Next Year )				
			IV	V	VI	VII=(IV+V+VI)	VIII=IX-VII	X	
1	Manpower	₹ 2,189,240.00	₹ -	₹ -	₹ -	₹ -	₹ 2,189,240.00	₹ 527,000.00	
2	Consumables	₹ 300,000.00	₹ -	₹ -	₹ -	₹ -	₹ 300,000.00	₹ 30,000.00	
3	Travel	₹ 800,000.00	₹ -	₹ -	₹ -	₹ -	₹ 800,000.00	₹ 280,000.00	
4	Contingencies	₹ 150,000.00	₹ -	₹ -	₹ -	₹ -	₹ 150,000.00	₹ 47,000.00	
5	Other Cost	₹ 200,000.00	₹ -	₹ -	₹ -	₹ -	₹ 200,000.00	₹ 33,000.00	
6	Equipment	₹ 1,650,000.00	₹ -	₹ -	₹ -	₹ 177,680.00	₹ 350,320.00	₹ -	
7	Overhead	₹ 128,000.00	₹ 177,680.00	₹ -	₹ -	₹ 177,680.00	₹ 5,639,360.00	₹ 1,147,800.00	
8	<b>Total</b>	₹ 5,817,040.00	₹ 177,680.00	₹ -	₹ -	₹ 177,680.00			

Dr. Irfan Rashid  
SERB-DST, Shri Lal Bahadur Shastri  
Department of Geoinformatics  
University of Kashmir  
Principal Investigator



Signature of Competent Authority  
(With Seal)  
7th July 2022

- \* DOS - Date of Start of project : 31st December 2020
- Note:**
- Expenditure under the sanctioned heads, at any point of time, should not exceed funds allocated under that head, without prior approval of SERB i.e. Figures in Column (VII) should not exceed corresponding figures in Column (III)
  - Utilization Certificate (Annexure III) for each financial year ending 31st March has to be enclosed along with request for carry-forward permission to the next financial year.



## Second release of payment

CRG/2020/000053

mailto:serbonline.in <SERB\_Administrator@serbonline.in> Mon, Apr 5, 2021 at 5:17 PM

**Science and Engineering Research Board**  
(Statutory Body Established Through an Act of Parliament : SERB Act 2008)  
Department of Science and Technology, Government of India

Dear Dr. Irfan Rashid,

Below details for Science & Engineering Research Board (SERB) Sanction Order (attached to this mail)

Sanction Order No	CRG/2020/000053
Sanction Date	03 March, 2021
Sanction Name	Dr. Irfan Rashid
Institute/University	Kashmir University, Hazratbal Rd, Hazratbal, Srinagar, Jk, Srinagar, Jammu And Kashmir-190006
Account Number	0007040500000057
Bank & Branch Name	Jammu and Kashmir Bank Limited University Campus Hazratbal Srinagar 190006 Jammu and Kashmir
Amount	INR 1650000/-
Rupees	Sixteen Lakh Fifty Thousand
TR No	RBI068210586599
Sanction Date	29 March 2021

SERB Reference Number:  
GIA/7733/2020-21  
Finance No : SERB/F/7950/2020-2021

Confirmation of receipt of funds may be sent by email only.

**IMPORTANT:**  
SEPARATE Utilization Certificates (UCs) for Recurring and Non Recurring (even if DISBURSED BY SERB THROUGH THE SANCTION ORDER for your project) should be sent directly to the grant Sanctioning Authority by name (signatory of the sanction order) within twelve months of the closure of the financial year in which the grants were released irrespective of whether the subsequent instalment of grant is due for release or not.  
However, if any unspent balance is to be refunded, kindly ensure that the unutilized amount may be refunded immediately by way of an a/c payee cheque/DD drawn in favour of "Director, Science & Engineering Research", payable at New Delhi and forwarded to the undersigned at the address given below:

Forwarded to I/O Cash for verification of grants whether received & credited into RRB A/c. (2)

Retd. with the remarks that an amount of Rs 16,50,000/- S.O (Res) has been credited to the ROS A/c 57-57

S.O  
10/06/21

Secretary  
Science & Engineering Research Board (SERB)  
Statutory body under the Government of India's Department of Science & Technology  
5A, Lower Ground Floor, Vasant Square Mall  
Connaught Place, New Delhi 110070

## Utilization certificate and Statement of expenditure for year 2021-22

### REQUEST FOR ANNUAL INSTALLMENT WITH UP-TO-DATE STATEMENT OF EXPENDITURE

1. SERB Sanction Order No and date : No.CRG/2020/900053 Date: 31- Dec-2020
2. Name of the PI : Dr. Irfan Rashid
3. Total Project Cost : Rs. 58,17,040.00
4. Revised Project Cost (if applicable) : Rs. Nil
5. Date of Commencement : 31<sup>st</sup> -December- 2020
6. Statement of Expenditure : 2021-22  
(Month wise expenditure incurred during current financial year)

Month & year	Expenditure incurred
1 <sup>st</sup> April 2021 To 31 <sup>st</sup> March 2022	Rs.26,33,886.00

1. Grant received in each year:
  - a. 1st Year : Rs.30,50,000.00
  - b. 2nd Year : Rs. NA
  - c. 3rd Year : Rs. NA
  - d. Interest, if any : Rs. 20,824.00+11,797.00=32,621.00
  - e. Total (a+b+c+d) : Rs. 30,82,621.00

**RECURRING**  
**GFR 12 - A**  
 [(See Rule 238 (1))]  
**UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2021-22**  
 In respect of **RECURRING**  
 as on 31/03/2022 to be submitted to SERB  
 The UC is Audited  
 (Submitted for the financial year from 1<sup>st</sup> April 2021 to 31<sup>st</sup> March 2022)

1. Name of the grant receiving Organization: **University of Kashmir, Srinagar (J&K)**
2. Name of Principal Investigator(PI): **Dr. Irfan Rashid**
3. SERB Sanction order no. & date : **CRG/2020/000053 Dated: 31- Dec-2020**
4. Title of the Project: **"Permafrost distribution and dynamics over Jammu and Kashmir Himalaya from remote sensing in-situ measurement and machine learning"**
5. Name of the SERB Scheme: **CRG**
6. Whether recurring or non-recurring grants: **Recurring**
7. Grants position at the beginning of the Financial year (Grants released by SERB)
  - i. Cash In Hand/Bank /Carry forward from previous financial year : **Rs. 12,43,144.00**
  - ii. Others, if any : **Rs. Nil**
  - iii. **Total** : **Rs. 12,43,144.00**

8. Details of grants received, expenditure incurred and closing balances: (Actuals)

Unspent Balance of Grants received previous years (figure as at Sr. No. 7(ii))	Interest earned thereon	Interest deposited back to the SERB	Grants received during the year			Total Available funds (1+2-3+4)	Expenditure incurred	Closing Balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
1	2	3	4			5	6	7
12,43,144.00	11,797.00	-	CRG/2020/000053	-	-	12,54,941.00	10,82,827.00	1,72,114.00

Component wise utilization of grants:

Grants-in-aid-General	Total
10,82,827.00	10,82,827.00

Details of grants position at the end of the year

- i. Cash in Hand/Bank : **Rs. 1,72,114.00**
- ii. Refunded to SERB, if any : **Rs. Nil**
- iii. Balance (Carry forward to next financial year) : **Rs. 1,72,114.00**

 Signature of PI: <b>Dr. Irfan Rashid (PI)</b> SERB-DST Sponsored Project Department of Geoinformatics University of Kashmir	 Signature with Seal: Name: <b>Dr. Irfan Rashid</b> Chief Finance Officer (Head of Finance)	 Signature with Seal: Name: <b>Dean Research</b> Head of Organization	 Signature Chartered Accountant
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**GFR 12 - A**  
**[[See Rule 238 (1)]]**  
**UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2021-22**  
**In respect of RECURRING**  
**as on 31/03/2022 to be submitted to SERB**  
**The UC is Audited**  
*(Submitted for the financial year from 1<sup>st</sup> April 2021 to 31<sup>st</sup> March 2022)*

Certified that I have satisfied that the conditions on which grants were sanctioned have been duly fulfilled/are being fulfilled and that I have exercised following checks to see that the money has been actually utilized for the purpose for which it was sanctioned.

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (vii) It has been ensured that the physical and financial performance under CRG (Name of the scheme has been according to the requirements, as prescribed in the guidelines issued by Govt. of India and the performance/targets achieved statement for the year to which the utilization of the fund resulted in outcomes given at Annexure- I duly enclosed.
- (viii) The utilization of the fund resulted in outcomes given at Annexure - II duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/specifications.)
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries is enclosed at Annexure- II (to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date: 7<sup>th</sup> July 2022

Place: Srinagar

 Signature of PI: <b>Dr. Ifran Rashid (PI)</b> SERB-DST Sponsored Project Department of Geoinformatics University of Kashmir	 Signature of Chief Finance Officer Name: ..... Chief Finance Officer Head of Finance	 Signature With Seal Name: ..... Head of Organization	 Signature Chartered Accountant
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(Strike out inapplicable terms)

**NON RECURRING**  
**OFR 12 - A**  
**[(See Rule 238 (1))]**  
**UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2021-22**  
**in respect of NON RECURRING**  
**as on 31/03/2022 to be submitted to SERB**  
**The UC is Audited**  
**(Submitted for the financial year from 1<sup>st</sup> April 2021 to 31<sup>st</sup> March 2022)**

1. Name of the grant receiving Organization: **University of Kashmir, Srinagar (J&K)**
2. Name of Principal Investigator(PI): **Dr. Irfan Rashid**
3. SERB Sanction order no. & date: **CRG/2020/000053 Dated: 31- Dec-2020**
4. Title of the Project: **"Permafrost distribution and dynamics over Jammu and Kashmir Himalaya from remote sensing in-situ measurement and machine learning"**
5. Name of the SERB Scheme: **CRG**
6. Whether recurring or non-recurring grants: **Non Recurring**
7. Grants position at the beginning of the Financial year (Grants released by SERB)
  - i. Cash In Hand/Bank /Carry forward from previous financial year: **Rs. 16,50,000.00**
  - ii. Others, if any: **Rs. Nil**
  - iii. **Total**: **Rs. 16,50,000.00**

8. Details of grants received, expenditure incurred and closing balances: (Actuals)



Unspent Balance of Grants received previous years [figure as at Sl. No. 7(ii)]	Interest earned thereon	Interest deposited back to the SERB	Grants received during the year			Total Available funds (1+2-3+4)	Expenditure incurred	Closing Balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
1	2	3	4			5	6	7
16,50,000.00	-	-	CRG/2020/000053	-	-	16,50,000.00	15,51,059.00	98,941.00

Component wise utilization of grants:

Grants-in-aid-Creation for Capital assets	Total
15,51,059.00	15,51,059.00

Details of grants position at the end of the year

- i. Cash in Hand/Bank: **Rs. 98,941.00**
- ii. Refunded to SERB, if any: **Rs. Nil**
- iii. Balance (Carry forward to next financial year): **Rs. 98,941.00**

 Signature of PI: <b>Dr. Irfan Rashid (PI)</b> SERB-DST Sponsored Project Department of Geoinformatics University of Kashmir	 Signature with Seal: Name: ..... Chief Finance Officer (Head of Finance)	 Signature with Seal: Name: ..... Head of Organization	 Signature Chartered Accountant
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GFR 12 - A  
 [(See Rule 238 (1))]  
**UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2021-22**  
**in respect of NON RECURRING**  
**as on 31/03/2022 to be submitted to SERB**  
 The UC is *Audited*  
*(Submitted for the financial year from 1<sup>st</sup> April 2021 to 31<sup>st</sup> March 2022)*

Certified that I have satisfied that the conditions on which grants were sanctioned have been duly fulfilled/are being fulfilled and that I have exercised following checks to see that the money has been actually utilized for the purpose for which it was sanctioned.

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (vii) It has been ensured that the physical and financial performance under CRG (Name of the scheme has been according to the requirements, as prescribed in the guidelines issued by Govt. of India and the performance/targets achieved statement for the year to which the utilization of the fund resulted in outcomes given at Annexure- I duly enclosed.
- (viii) The utilization of the fund resulted in outcomes given at Annexure - II duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/specifications.)
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries is enclosed at Annexure- II (to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date: 7<sup>th</sup> July 2022

Place: Srinagar

 Signature of PI: <b>Dr. Irfan Rasheed (PI)</b> SERB-DST Sponsored Project Department of Geoinformatics University of Kashmir	 Signature with Seal: Name: ..... Chief Finance Officer (Head of Finance) University of Kashmir	 Signature with Seal: Name: ..... Head of Organization	 Signature Chartered Accountant
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(Strike out inapplicable terms)

(Submitted for the financial year 1st April 2021 to 31st March 2022 of that financial year 2021-22)

S.NO	Sanctioned Heads	Total Funds Allocated (Dedicate Sanctioned or revised)	Expenditure Incurred			Total Expenditure Incurred	Balance as on 31st March 2022	Requirements of Funds upto 31st March 2022	Remarks
			1st Year (DDF*31st December 2020 To 31st March 2021)	2nd Year (1st April 2021 To 31st March 2022)	3rd Year (1st April To 31st March Next Year )				
I	II	III	IV	V	VI	VII=IV+V+VI	VIII=III-VII	IX	X
1	Manpower	₹ 2,180,040.00	₹ -	₹ 610,659.00	₹ -	₹ 610,659.00	₹ 1,579,381.00	₹ 627,600.00	
2	Consumables	₹ 300,000.00	₹ -	₹ 85,237.00	₹ -	₹ 85,237.00	₹ 214,763.00	₹ 100,000.00	
3	Travel	₹ 800,000.00	₹ -	₹ 276,872.00	₹ -	₹ 276,872.00	₹ 523,128.00	₹ 300,000.00	
4	Contingencies	₹ 150,000.00	₹ -	₹ 47,000.00	₹ -	₹ 47,000.00	₹ 103,000.00	₹ 50,000.00	
5	Other Cost	₹ 200,000.00	₹ -	₹ 63,058.00	₹ -	₹ 63,058.00	₹ 136,941.00	₹ 50,000.00	
6	Equipment	₹ 1,850,000.00	₹ -	₹ 1,551,058.00	₹ -	₹ 1,551,058.00	₹ 98,941.00	₹ -	
7	Overhead	₹ 528,000.00	₹ 177,680.00	₹ -	₹ -	₹ 177,680.00	₹ 350,320.00	₹ 178,000.00	
<b>8</b>	<b>Total</b>	<b>₹ 5,817,040.00</b>	<b>₹ 177,680.00</b>	<b>₹ 2,638,846.00</b>	<b>₹ -</b>	<b>₹ 2,811,566.00</b>	<b>₹ 3,005,474.00</b>	<b>₹ 1,309,600.00</b>	

  
**Dr. Irfan Rashid** Principal Investigator  
 SERB-DST Sponsored Project  
 Department of ~~Computer Science~~  
 University of ~~Kashmir~~ Date of Start of project :31st December 2020



  
 Signature of ~~Competent~~ Financial authority  
 (With Seal)  
 The ~~Competent~~ Finance Officer  
 University of Kashmir

Date: 7th July 2022

- Note:**
- Expenditure under the sanctioned heads, at any point of time, should not exceed funds allocated under that head, without prior approval of SERB i.e. Figures in Column (VII) should not exceed corresponding figures in Column (III)
  - Utilization Certificate (Annexure III) for each financial year ending 31<sup>st</sup> March has to be enclosed along with request for carry-forward permission to the next financial year.

## Third release of payment

**KU Mail..**

@kashmiruniversity.ac.in

Irfan Rashid <irfangis@kashmiruniversity.ac.in>

**Sanction Order : CRG/2020/000053**

SERB\_Administrator@serbonline.in <SERB\_Administrator@serbonline.in>  
To: serbinfo1@gmail.com

Wed, Aug 24, 2022 at 2:43 PM



**Science and Engineering Research Board**  
(Statutory Body Established Through an Act of Parliament : SERB Act 2008)  
Department of Science and Technology, Government of India

Dear Dr. Irfan Rashid,

The below details for **Science & Engineering Research Board (SERB)** Sanction Order (attached to this mail)

<b>Sanction Order No</b>	CRG/2020/000053
<b>Sanction Date</b>	17 August, 2022
<b>PI Name</b>	Dr. Irfan Rashid
<b>Institute/University</b>	Kashmir University , Hazratbal Rd, Hazratbal, Srinagar, Jk, Srinagar, Jammu And Kashmir-190006
<b>Account Number</b>	0007040500000057
<b>Bank &amp; Branch Name</b>	Jammu and Kashmir Bank Limited University Campus Hazratbal Srinagar 190006 Jammu and Kashmir
<b>Amount</b>	INR 1150000/-
<b>In Rupees</b>	Eleven Lakh Fifty Thousand
<b>UTR No</b>	RBI2362207259789
<b>Transaction Date</b>	23 August, 2022

**SERB Reference Number:**

Bill No GIA/3229/2022-23

Diary No / Finance No : SERB/F/3916/2022-2023

Confirmation of receipt of funds may be sent by email only.

**IMPORTANT:**

- 1. SEPARATE Utilization Certificates (UCs) for Recurring and Non Recurring (even if DISBURSED BY SERB THROUGH ONE SANCTION ORDER for your project) should be sent directly to the grant Sanctioning Authority by name (signatory of the sanction order) within twelve months of the closure of the financial year in which the grants were released irrespective of whether the subsequent instalment of grant is due for release or not.**
- 2. However, if any unspent balance is to be refunded, kindly ensure that the unutilized amount may be refunded immediately by way of an a/c payee cheque/DD drawn in favour of "Fund for Science & Engineering Research", payable at New Delhi and forwarded to the undersigned at the address given below:**



## Utilization certificate and Statement of expenditure for year 2022-23

KU2023-0

**REQUEST FOR ANNUAL INSTALLMENT WITH UP-TO-DATE STATEMENT OF EXPENDITURE**

1. SERB Sanction Order No and date : No. CRG/2020/000053 Date: 31- Dec-2020
2. Name of the PI : Dr. Irfan Rashid
3. Total Project Cost : Rs. 58,17,040.00
4. Revised Project Cost (if applicable) : Rs. Nil
5. Date of Commencement : 31<sup>st</sup> December- 2020
6. Statement of Expenditure : 2022-23  
(Month wise expenditure incurred during current financial year)

Month & year	Expenditure incurred
1 <sup>st</sup> April 2022 To 31 <sup>st</sup> March 2023	Rs.11,62,131.00

1. Grant received in each year:
  - a. 1st Year : Rs.30,50,000.00
  - b. 2nd Year : Rs.11,50,000.00
  - c. 3rd Year : Rs. NA
  - d. Interest, if any : Rs. 20,824.00+11,797.00+15,717=48,338.00
  - e. Total (a+b+c+d) : Rs. 42,48,338.00

**RECURRING**  
**GFR 12 - A**  
 [(See Rule 238 (1))]  
**UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2022-23**  
 in respect of **RECURRING**  
 as on 31/03/2023 to be submitted to SERB  
 The UC is Audited

*(Submitted for the financial year from 1<sup>st</sup> April 2022 to 31<sup>st</sup> March 2023)*

1. Name of the grant receiving Organization: **University of Kashmir, Srinagar (J&K)**
2. Name of Principal Investigator(PI): **Dr. Irfan Rashid**
3. SERB Sanction order no. & date : **CRG/2020/000053 Dated: 31- Dec-2020**
4. Title of the Project: **"Permafrost distribution and dynamics over Jammu and Kashmir Himalaya from remote sensing in-situ measurement and machine learning"**
5. Name of the SERB Scheme: **CRG**
6. Whether recurring or non-recurring grants: **Recurring**
7. Grants position at the beginning of the Financial year (Grants released by SERB)ca
  - i. Cash In Hand/Bank /Carry forward from previous financial year :Rs. 1,72,114.00
  - ii. Others, if any :Rs. Nil
  - iii. Total :Rs. 1,72,114.00

**8. Details of grants received, expenditure incurred and closing balances: (Actuals)**

Unspent Balance of Grants received previous years [figure as at Sl. No. 7(ii)]	Interest earned thereon	Interest deposited back to the SERB	Grants received during the year			Total Available funds (1+2-3+4)	Expenditure incurred	Closing Balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
1	2	3	4	5	6	7		
1,72,114.00	15,717.00	-	CRG/2020/000053	17-Aug-2022	11,50,000.00	13,37,831.00	10,65,243.00	2,72,588.00

**Component wise utilization of grants:**

Grants-in-aid-General	Total
10,65,243.00	10,65,243.00

**Details of grants position at the end of the year**

- i. Cash in Hand/Bank :Rs. 2,72,588.00
- ii. Refunded to SERB, if any :Rs. Nil
- iii. Balance (Carry forward to next financial year) :Rs. 2,72,588.00

<p><i>[Signature]</i>          Signature of PI: .....  <b>Dr. Irfan Rashid</b>          Assistant Professor          Department of Geoinformatics          University of Kashmir</p>	<p><i>[Signature]</i>          Signature with Seal: .....          Name: .....  <b>Chief Finance Officer</b>          (Head of Finance)</p>	<p><i>[Signature]</i>          Signature with Seal: .....          Name: .....  <b>Head of Organization</b></p> <p align="center"><b>Dean Research</b>          University of Kashmir</p>	<p><i>[Signature]</i>          Signature Chartered Accountant</p>
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**GFR 12 - A**  
**[(See Rule 238 (1))]**  
**UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2022-23**  
**in respect of RECURRING**  
**as on 31/03/2023 to be submitted to SERB**  
**The UC is Audited**

(Submitted for the financial year from 1<sup>st</sup> April 2022 to 31<sup>st</sup> March 2023)

Certified that I have satisfied that the conditions on which grants were sanctioned have been duly fulfilled/are being fulfilled and that I have exercised following checks to see that the money has been actually utilized for the purpose for which it was sanctioned:

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (vii) It has been ensured that the physical and financial performance under CRG (Name of the scheme has been according to the requirements, as prescribed in the guidelines issued by Govt. of India and the performance/targets achieved statement for the year to which the utilization of the fund resulted in outcomes given at Annexure- I duly enclosed.
- (viii) The utilization of the fund resulted in outcomes given at Annexure - II duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/specifications.)
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries is enclosed at Annexure- II (to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date:

Place: Srinagar

<p><i>[Signature]</i>                  Signature with Seal: .....                  Name: .....                  Chief Finance Officer                  (Head of Finance)</p>	<p><i>[Signature]</i>                  Signature with Seal: .....                  Name: .....                  Head of Organization</p>	<p><i>[Signature]</i>                  Signature                  Chartered Accountant</p>
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(Strike out inapplicable terms)

Dean Research  
 University of Kashmir

**NON RECURRING**  
**GFR 12 – A**  
 [(See Rule 238 (1))]  
**UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2022-23**  
**In respect of NON RECURRING**  
**as on 31/03/2023 to be submitted to SERB**  
 The UC is *Audited*

*(Submitted for the financial year from 1<sup>st</sup> April 2022 to 31<sup>st</sup> March 2023)*

1. Name of the grant receiving Organization: **University of Kashmir, Srinagar (J&K)**
2. Name of Principal Investigator(PI): **Dr. Irfan Rashid**
3. SERB Sanction order no. & date : **CRG/2020/000053 Dated: 31- Dec-2020**
4. Title of the Project: **"Permafrost distribution and dynamics over Jammu and Kashmir Himalaya from remote sensing in-situ measurement and machine learning"**
5. Name of the SERB Scheme: **CRG**
6. Whether recurring or non-recurring grants: **Non Recurring**
7. Grants position at the beginning of the Financial year (Grants released by SERB)
  - i. Cash In Hand/Bank /Carry forward from previous financial year : **Rs. 98,941.00**
  - ii. Others, if any : **Rs. Nil**
  - iii. **Total** : **Rs. 98,941.00**

8. Details of grants received, expenditure incurred and closing balances: (Actuals)

Unspent Balance of Grants received previous years [figure as at Sl. No. 7(ii)]	Interest earned thereon	Interest deposited back to the SERB	Grants received during the year			Total Available funds (1+2-3+4)	Expenditure incurred	Closing Balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
1	2	3	4	5	6	7		
98,941.00	-	-	CRG/2020/000053	17-Aug-2022	-	98,941.00	96,888.00	2,053.00

Component wise utilization of grants:

Grants-in-aid-Creation for Capital assets	Total
96,888.00	96,888.00

Details of grants position at the end of the year

- i. Cash in Hand/Bank : **Rs. 2,053.00**
- ii. Refunded to SERB, if any : **Rs. Nil**
- iii. Balance (Carry forward to next financial year) : **Rs. 2,053.00** ✓

 <b>Dr. Irfan Rashid (PI)</b> SERB-DST Sponsored Project Department of Geoinformatics University of Kashmir	 Signature with Seal Name: ..... Chief Finance Officer (Head of Finance)	 Signature with Seal Name: ..... Head of Organization	 Signature Chartered Accountant
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**Dean Research**  
**University of Kashmir**

**GFR 12 – A**  
**[(See Rule 238 (1))]**  
**UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2022-23**  
**In respect of *NON RECURRING***  
**as on 31/03/2023 to be submitted to SERB**  
**The UC is *Audited***  
*(Submitted for the financial year from 1<sup>st</sup> April 2022 to 31<sup>st</sup> March 2023)*

Certified that I have satisfied that the conditions on which grants were sanctioned have been duly fulfilled/are being fulfilled and that I have exercised following checks to see that the money has been actually utilized for the purpose for which it was sanctioned:

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (vii) It has been ensured that the physical and financial performance under **CRG** (Name of the scheme has been according to the requirements, as prescribed in the guidelines issued by Govt. of India and the performance/targets achieved statement for the year to which the utilization of the fund resulted in outcomes given at Annexure- I duly enclosed.
- (viii) The utilization of the fund resulted in outcomes given at Annexure – II duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/specifications.)
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries is enclosed at Annexure- II (to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date:

Place: Srinagar

 Signature with Seal: ..... Name: <b>Rashid (P)</b> Chief Finance Officer (Head of Finance) SERB-DST Sponsored Project Department of Geoinformatics University of Kashmir	 Signature with Seal: ..... Name: ..... Head of Organization 	 Signature Chartered Accountant 
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**Dean Research**  
**University of Kashmir**

**Statement of Expenditure**  
(Submitted for the financial year 1st April 2022 to 31st March 2023 of that financial year 2022-23)

S.NO	Sanctioned Heads	Total Funds Allocated (Indicate Sanctioned or revised)	Expenditure Incurred			Total Expenditure Incurred	Balance as on 31st March 2023	Requirement of Funds upto 29th December 2023	Remarks
			1st Year (DOS*31st December 2020 To 31st March 2021)	2nd Year (1st April 2021 To 31st March 2022)	3rd Year (1st April 2022 To 31st March 2023)				
	II	III	IV	V	VI	VII=IV+V+VI	VIII=III-VII	IX	X
1	Manpower	₹ 2,189,040.00	₹ -	₹ 610,659.00	₹ 612,989.00	₹ 1,223,648.00	₹ 965,392.00	₹ 563,300.00	
2	Consumables	₹ 320,000.00	₹ -	₹ 85,237.00	₹ 49,695.00	₹ 134,932.00	₹ 185,068.00	₹ 160,000.00	
3	Travel	₹ 800,000.00	₹ -	₹ 276,872.00	₹ 251,309.00	₹ 528,081.00	₹ 271,919.00	₹ 220,000.00	
4	Contingencies	₹ 150,000.00	₹ -	₹ 47,000.00	₹ 31,350.00	₹ 78,350.00	₹ 71,650.00	₹ 50,000.00	
5	Other Cost	₹ 200,000.00	₹ -	₹ 63,059.00	₹ -	₹ 63,059.00	₹ 136,941.00	₹ 87,000.00	
6	Equipment	₹ 1,490,000.00	₹ -	₹ 1,551,059.00	₹ 96,888.00	₹ 1,647,947.00	₹ 2,051.00	₹ -	
7	Overhead	₹ 528,000.00	₹ 177,680.00	₹ -	₹ 120,000.00	₹ 297,680.00	₹ 230,320.00	₹ 230,320.00	
<b>8</b>	<b>Total</b>	<b>₹ 5,817,040.00</b>	<b>₹ 177,680.00</b>	<b>₹ 2,613,886.00</b>	<b>₹ 1,162,131.00</b>	<b>₹ 3,973,697.00</b>	<b>₹ 3,843,343.00</b>	<b>₹ 1,310,620.00</b>	

Name: Dr. Arif Rashid (CA)  
 Designation: SERB-DST Sponsored Project  
 Department: Geoinformatics  
 University of Kashmir



Signature of Consistent Financial authority

(With Seal)

Date

**Note:**

- Expenditure under the sanctioned heads, at any point of time, should not exceed funds allocated under that head, without prior approval of SERB i.e. Figures in Column (VII) should not exceed corresponding figures in Column (III)
- Utilization Certificate (Annexure III) for each financial year ending 31<sup>st</sup> March has to be enclosed along with request for carry-forward permission to the next financial year.

## Fourth release of payment

FILE NO. CRG/2020/000053  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
(A statutory body of the Department of Science & Technology, Government of India)

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

Dated 05-Jul-2023

### ORDER

Subject: Research project entitled "Permafrost distribution and dynamics over Jammu and Kashmir Himalaya from remote sensing, in-situ measurements and machine learning" under the guidance of Dr. Irfan Rashid, Earth Sciences, Kashmir University, Hazratbal Rd, Hazratbal, Srinagar, JK, Srinagar, Jammu and Kashmir-190006.

1. This is in continuation of SERB's sanction order No. "CRG/2020/000053" dated "31 December, 2020" of Science and Engineering Research Board (SERB).
2. Sanction of the competent authority is hereby accorded to the payment of a sum of Rs. 1000000/- (Rupees Ten Lakh only) under 'Grants-in-aid General' to Dean, Research, Kashmir University, Hazratbal Rd, Hazratbal, Srinagar, JK being the 4th grant for the financial year 2023-2024 for implementation of the above said project.
3. Sanction of the competent authority is also accorded to the carry forward of unspent balance of Rs. 274641/- (Rupees Two Lakh Seventy Four Thousand Six Hundred and Forty One only) (Recurring Rs. 272588 and Non-Recurring Rs. 2053) to Kashmir University, Hazratbal Rd, Hazratbal, Srinagar, JK from FY 2022-2023 to FY 2023-2024 for the same purpose for which it was sanctioned.
4. 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)).
5. It is certified that provision of GFR 212 relating to Utilization Certificates (UCs) for the funds released under the grant have been satisfied and the UC/s is/are enclosed herewith.
6. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) This release is being made under Core Research Grant. (PAC Earth & Atmospheric Sciences)
7. The Sanction has been issued to Kashmir University, Hazratbal Rd, Hazratbal, Srinagar, JK with the approval of the competent authority under delegated powers on 03 July, 2023 and vide Diary No. SERB/E/3445/2023-2024 dated 04 July, 2023
8. The release amount of Rs. 1000000/- (Rupees Ten Lakh only) (Recurring Rs. 1000000 and Non-Recurring Rs. 0) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

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 190006 Jammu and Kashmir
IFSC/RTGS Code	JAKA0NASEEM
Email id of A/C Holder	deanresearch@uok.edu.in
Email id of PI	irfan@kashmiruniversity.ac.in

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 installment of the grant.

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

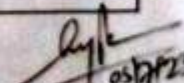
11. The institute will furnish to the SERB, Utilization certificate (separate for Recurring & Non- Recurring ) and its audited statement of accounts pertaining to the grant immediately after the end of each financial year.
12. After completion of the project unspent balance if any should be returned as Demand Draft drawn in favour of 'Fund for Science and Engineering Research' payable at New Delhi.
13. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.
14. 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 the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.

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

To,  
 Under Secretary  
 SERB, New Delhi

Copy forwarded for information and necessary action to:-

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Dr. Irfan Rashid Earth Sciences Kashmir University, Hazratbal rd, hazratbal, srinagar, Jk, Srinagar, Jammu and kashmir-190006 Email: irfangi@kashmiruniversity.ac.in Mobile: 919018889992
5.	Dean, Research, Kashmir University, Hazratbal Rd, Hazratbal, Srinagar, JK

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



## Utilization certificate and Statement of expenditure for year 2023-24

### REQUEST FOR ANNUAL INSTALLMENT WITH UP-TO-DATE STATEMENT OF EXPENDITURE

1. NFRB Sanction Order No and date : No.C/RG/2020/000053 Date: 31- Dec-2020
2. Name of the PI : Dr. Irfan Rashid
3. Total Project Cost : Rs. 88,17,040.00
4. Revised Project Cost (if applicable) : Rs. Nil
5. Date of Commencement : 31<sup>st</sup> -December- 2020
6. Statement of Expenditure : 2023-24  
(Month wise expenditure incurred during current financial year)

Month & year	Expenditure incurred
1 <sup>st</sup> April 2023 To 30 <sup>th</sup> September 2023	Rs. 3,33,252.00

#### 1. Grant received in each year:

- a. 1st Year : Rs.30,50,000.00
- b. 2nd Year : Rs.11,50,000.00
- c. 3rd Year : Rs.10,00,000.00
- d. Interest, if any : Rs. 20,824.00+11,797.00+5,717+3,680.00= 52,018.00
- e. Total (a+b+c+d) : Rs. 82,52,018.00

**RECURRING**  
GFR 12 - A  
[(See Rule 238 (1))]  
**PROVISIONAL UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2023-24**  
in respect of **RECURRING**  
as on 30/09/2023 to be submitted to SERB  
The UC is **Audited**

(Submitted for the financial year from 1<sup>st</sup> April 2023 to 30<sup>th</sup> September 2023)

1. Name of the grant receiving Organization: **University of Kashmir, Srinagar (J&K)**
2. Name of Principal Investigator(PI): **Dr. Irfan Rashid**
3. SERB Sanction order no. & date : **CRG/2020/000053 Dated: 31- Dec-2020**
4. Title of the Project: **"Permafrost distribution and dynamics over Jammu and Kashmir Himalaya from remote sensing in-situ measurement and machine learning"**
5. Name of the SERB Scheme: **CRG**
6. Whether recurring or non-recurring grants: **Recurring**
7. Grants position at the beginning of the Financial year (Grants released by SERB)ca

I. Cash In Hand/Bank /Carry forward from previous financial year :Rs. 2,72,588.00  
 ii. Others, if any : Rs. Nil  
 iii. **Total** :Rs. 2,72,588.00

8. Details of grants received, expenditure incurred and closing balances: (Actuals)

Unspent Balance of Grants received previous years [Figure as at Sl. No. 7(ii)]	Interest earned thereon	Interest deposited back to the SERB	Grants received during the year			Total Available funds (1+2-3+4)	Expenditure incurred	Closing Balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
1	2	3	4	5	6	7		
2,72,588.00	3,680.00	-	CRG/2020/000053	15-Jul-2023	10,00,000.00	12,76,268.00	3,33,252.00	9,43,016.00

Component wise utilization of grants:

Grants-in-aid-General	Total
3,33,252.00	3,33,252.00

Details of grants position at the end of the year

i. Cash in Hand/Bank :Rs. 9,43,016.00  
 ii. Refunded to SERB, if any : Rs. Nil  
 iii. Balance (Carry forward to next financial year) :Rs. 9,43,016.00

<p><i>Luzuloo</i> Signature of PI: .....</p> <p><b>Dr. Irfan Rashid (PI)</b> SERB-DST Sponsored Project Department of Geoinformatics University of Kashmir</p>	<p><i>[Signature]</i> Signature with Seal..... Name:..... Chief Finance Officer (Head of Finance)</p>	<p><i>[Signature]</i> Signature with Seal..... Name:..... Head of Organization Dean Research University of Kashmir</p>	<p><i>[Signature]</i> Signature..... Chartered Accountant</p>
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**GFR 12 - A**  
**[(See Rule 238 (1))]**  
**PROVISIONAL UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2023-24**  
**In respect of NON RECURRING**  
**as on 30/09/2023 to be submitted to SERB**  
**The UC is Audited**

(Submitted for the financial year from 1<sup>st</sup> April 2023 to 30<sup>th</sup> September 2023)

Certified that I have satisfied that the conditions on which grants were sanctioned have been duly fulfilled/are being fulfilled and that I have exercised following checks to see that the money has been actually utilized for the purpose for which it was sanctioned:

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (vii) It has been ensured that the physical and financial performance under CRG (Name of the scheme has been according to the requirements, as prescribed in the guidelines issued by Govt. of India and the performance/targets achieved statement for the year to which the utilization of the fund resulted in outcomes given at Annexure- I duly enclosed.
- (viii) The utilization of the fund resulted in outcomes given at Annexure - II duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/specifications.)
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries is enclosed at Annexure- II (to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date:

Place: Srinagar

<p style="text-align: center;"><i>L. Rashid</i>  <b>Signature of PI:</b>  <b>Dr. Irfan Rashid (PI)</b>  SERB-DST Sponsored Project  Department of Geoinformatics  University of Kashmir</p>	<p style="text-align: center;"><i>[Signature]</i>  <b>Signature with Seal:</b>  <b>Name:</b> .....  <b>Chief Finance Officer</b>  <b>(Head of Finance)</b></p>	<p style="text-align: center;"><i>[Signature]</i>  <b>Signature with Seal:</b>  <b>Name:</b> .....  <b>Head of Organization</b></p> <p style="text-align: center;"><b>Dean Research</b>  <b>University of Kashmir</b></p>	<p style="text-align: center;"><i>[Signature]</i>  <b>Signature</b>  <b>Chartered Accountant</b></p>
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**NON RECURRING**

GFR 12 - A

[[See Rule 238 (1)]]

**PROVISIONAL UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2023-24**

In respect of **NON RECURRING**

as on 30/09/2023 to be submitted to SERB

The UC is **Audited**

*(Submitted for the financial year from 1<sup>st</sup> April 2023 to 30<sup>th</sup> September 2023)*

1. Name of the grant receiving Organization: University of Kashmir, Srinagar (J&K)
2. Name of Principal Investigator(PI): Dr. Irfan Rashid
3. SERB Sanction order no. & date : CRG/2020/000053 Dated: 31- Dec-2020
4. Title of the Project: "Permafrost distribution and dynamics over Jammu and Kashmir Himalaya from remote sensing in-situ measurement and machine learning"
5. Name of the SERB Scheme: CRG
6. Whether recurring or non-recurring grants: Non Recurring
7. Grants position at the beginning of the Financial year (Grants released by SERB)
  - i. Cash In Hand/Bank /Carry forward from previous financial year :Rs. 2,053.00
  - ii. Others, if any : Rs. Nil
  - iii. Total : Rs. 2,053.00
8. Details of grants received, expenditure incurred and closing balances: (Actuals)

Unspent Balance of Grants received previous years [Figure as at Sl. No. 7(iii)]	Interest earned thereon	Interest deposited back to the SERB	Grants received during the year			Total Available funds (1+2-3+4)	Expenditure incurred	Closing Balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
1	2	3	4	5	6	7		
2,053.00	-	-	CRG/2020/000053	15-Jul-2023	-	2,053.00	-	2,053.00

Component wise utilization of grants:

Grants-in-aid-Creation for Capital assets	Total
-	-

Details of grants position at the end of the year

- i. Cash in Hand/Bank : Rs. 2,053.00
- ii. Refunded to SERB, if any : Rs. Nil
- iii. Balance (Carry forward to next financial year) : Rs. 2,053.00

<p><i>Lushko</i> Signature of PI: .....</p> <p><b>Dr. Irfan Rashid (PI)</b> RD-DST Sponsored Project Department of Geoinformatics University of Kashmir</p>	<p><i>[Signature]</i> Signature with Seal: .....</p> <p><b>Chief Finance Officer</b> (Head of Finance)</p>	<p><i>[Signature]</i> Signature with Seal: .....</p> <p><b>Head of Organization</b></p> <p><i>[Signature]</i> Dean Research University of Kashmir</p>	<p><i>[Signature]</i> Signature Chartered Accountant</p> <p><i>[Seal]</i></p>
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**GFR 12 - A**  
**[(See Rule 238 (1))]**  
**PROVISIONAL UTILIZATION CERTIFICATE (UC) FOR THE YEAR: 2023-24**  
**In respect of RECURRING**  
**as on 30/09/2023 to be submitted to SERB**  
**The UC is Audited**

(Submitted for the financial year from 1<sup>st</sup> April 2023 to 30<sup>th</sup> September 2023)

Certified that I have satisfied that the conditions on which grants were sanctioned have been duly fulfilled/are being fulfilled and that I have exercised following checks to see that the money has been actually utilized for the purpose for which it was sanctioned.

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (vii) It has been ensured that the physical and financial performance under CRG (Name of the scheme has been according to the requirements, as prescribed in the guidelines issued by Govt. of India and the performance/targets achieved statement for the year to which the utilization of the fund resulted in outcomes given at Annexure- I duly enclosed.
- (viii) The utilization of the fund resulted in outcomes given at Annexure - II duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/specifications.)
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries is enclosed at Annexure- II (to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date:

Place: Srinagar

<p><i>Lashoo</i></p> <p>Signature of PI: .....</p> <p><b>Dr. Irfan Rashid (PI)</b></p> <p>SERB-DST Sponsored Project</p> <p>Department of Geoinformatics</p> <p>University of Kashmir</p> <p>(Strike out inapplicable terms)</p>	<p><i>[Signature]</i></p> <p>Signature with Seal: .....</p> <p>Name: .....</p> <p><b>Chief Finance Officer</b></p> <p>(Head of Finance)</p> <p><i>[Signature]</i></p>	<p><i>[Signature]</i></p> <p>Signature with Seal: .....</p> <p>Name: .....</p> <p><b>Head of Organization</b></p> <p><i>[Signature]</i></p> <p><b>Dean Research</b></p> <p>University of Kashmir</p>	<p><i>[Signature]</i></p> <p>Signature</p> <p><b>Chartered Accountant</b></p> <p><i>[Seal]</i></p>
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**Provisional Statement of Expenditure**  
Submitted for the financial year 1st April 2022 to 30th September 2022 of the financial year 2022-23

S.No	Sanctioned Heads	Total Funds Allocated (Indicate sanctioned or revised)	Expenditure incurred				Total Expenditure Incurred	Balance as on 30th September 2022	Requirement of Funds upto 30th December 2022	Remarks
			1st Year (001*51st December 2020 To 31st March 2021)	2nd Year (1st April 2021 To 31st March 2022)	3rd Year (1st April 2022 To 31st March 2023)	4th Year (1st April 2023 To 30th September 2023)				
I	II	III	IV	V	VI	VII	VIII=VII	X	XI	
1	Manpower	₹ 2,189,040.00	₹ -	₹ 610,659.00	₹ 612,989.00	₹ 231,252.00	₹ 1,454,900.00	₹ 734,140.00	₹ 563,300.00	
2	Consumables	₹ 300,000.00	₹ -	₹ 85,237.00	₹ 49,685.00	₹ -	₹ 134,922.00	₹ 165,078.00	₹ 110,000.00	
3	Travel	₹ 800,000.00	₹ -	₹ 276,872.00	₹ 251,209.00	₹ -	₹ 528,081.00	₹ 271,919.00	₹ -	
4	Contingencies	₹ 150,000.00	₹ -	₹ 47,000.00	₹ 31,350.00	₹ -	₹ 78,350.00	₹ 71,650.00	₹ 50,000.00	
5	Other Cost	₹ 200,000.00	₹ -	₹ 63,059.00	₹ -	₹ -	₹ 63,059.00	₹ 136,941.00	₹ 50,000.00	
6	Equipment	₹ 1,650,000.00	₹ -	₹ 1,551,059.00	₹ 96,888.00	₹ -	₹ 1,647,947.00	₹ 2,027.00	₹ -	
7	Overhead	₹ 528,000.00	₹ 177,680.00	₹ -	₹ 120,000.00	₹ 100,000.00	₹ 397,680.00	₹ 130,320.00	₹ 130,320.00	
8	Total	₹ 5,817,040.00	₹ 177,680.00	₹ 2,633,886.00	₹ 1,162,131.00	₹ 332,252.00	₹ 4,306,949.00	₹ 1,810,070.00	₹ 951,620.00	

Name and Signature of Principal Investigator: *Lashooz*  
**Dr. Irfan Rashid (PI)**  
SERB-OST Sponsored Project  
Department of Geoinformatics

Date: **25/10/23**

*OSK*  
Signature of Competent Financial Authority  
With Seal

Date: \_\_\_\_\_

- Note:**
- Expenditure under the sanctioned heads, at any point of time, should not exceed funds allocated under that head, without prior approval of SERB i.e. Figures in Column (VII) should not exceed corresponding figures in Column (III)
  - Utilisation Certificate (Annexure III) for each financial year ending 31<sup>st</sup> March has to be enclosed along with request for carry-forward permission to the next financial year.

**“An integrating approach for assessing the impact of light absorbing particles (LAPs) on snow depletion and glacier recession in Kashmir Himalaya using remote sensing, field investigation and geochemistry”**

**Funding agency: J&K Science Technology & Innovation Council  
Department Of Science & Technology, Government of Jammu & Kashmir.**

## Release Approval

GOVERNMENT OF JAMMU & KASHMIR  
J&K SCIENCE TECHNOLOGY & INNOVATION COUNCIL  
Department of Science & Technology

SDA Colony, Bemina, Srinagar, 5-B/C Gandhi Nagar, Jammu  
e-mail jkstic89@gmail.com www.jkstic.jk.gov.in

Dr. Irfan Rashid  
Assistant Professor  
Department of Geo Informatics  
Kashmir University, Sgr

No: JKST&IC/SRE/160-64

Dated: 22-01-2024

Sub: Funding of Research Projects – Approval thereof.

Sir,

Apropos to the subject, the undersigned is directed to inform that your project titled " **An integrated approach for assessing the impact of light absorbing particles (LAPs) on snow depletion and glacier recession in Kashmir Himalaya using remote sensing field investigation and geochemistry** " has been approved by the expert/Technical committee for funding which shall be released in phased manner as per the availability of funds over a period of two years. In the first instance an amount of **Rs.128000/= lakhs (40% of the 1st instalment of Rs. 3,20,000/= Lakhs)** has been sanctioned and released vide Government Order No. 45-JK(ST) of 2023 dated 22-12-2023 in the official account of your institution. The terms and conditions governing the funding of the project are as below.

### Terms and Conditions

1. PI's who have submitted more than one project or is already running JKST&IC project have been recommended for undertaking only one research project at a time.
2. The PI shall complete the research projects within the budget recommended by the Technical Evaluation / Advisory Committee and within stipulated time.
3. PI of the projects must be working as permanent Scientists/ Academicians.
4. International travel if any, is not permitted under the programme.
5. The overhead expenses (if any) will be given to the maximum 10% of the yearly budget excluding the cost of permanent equipment.
6. Any equipment procured under the said project shall be allowed to be used by any other research agency as and when needed.
7. Stock Register for any purchase made under the project should be properly maintained for audit purposes or as and when needed.
8. Laptops, DSLR's, cameras, printers not allowed to be procured.



9. Physical and financial progress of the projects should be communicated after every three months, or whenever asked for.
10. Funds for approved proposals shall be released only as per rules of the JKST&IC.
11. PI must submit Utilization Certificate, Project report, and other relevant documents, duly audited and authenticated by the Competent Authority, to JKST&IC on the completion of the project or as and when asked for in case of official exigency.
12. Publication of results/presentation of papers should clearly acknowledge the funding from the JKST&IC, UT of J&K and should also contain a disclaimer that the JKST&IC is not responsible for any result interpretations expressed in the report/study.
13. The time period for the project and utilization of approved funds shall be two years, commencing from the date of release of funds, i.e., from January 2024 to January 2026 and the utilization certificate of the funds may be submitted as and when asked for.
14. Annual report of the work done under the project in MS word, along with the high resolution/Geo tagged photographs must reach this office on yearly basis for publications of report.
15. The investigators should clearly understand and accept the Terms and Conditions regulating the grants released by the JKST&IC.

**Expenditure breakup for utilization of funds.**

S.No.	Particulars (for a period of two years).
1	Consumables up to <b>Rs. 2.00</b> lakhs.
2	Minor equipment up to <b>Rs.2.50</b> lakhs
3	Travel for attending/participating in conferences/workshops/project related work up to <b>Rs.0.50</b> lakhs.
4	Manpower up to <b>Rs.0.20</b> lakhs per month
5	Others/contingency up to <b>Rs.0.50</b> lakhs per year.

For any other clarification please feel free to contact preferably through e-mail [jkstic89sre@gmail.com](mailto:jkstic89sre@gmail.com)

Yours faithfully,  
  
 (Bilal Ahmad)  
 Joint Director

Copy to the:

1. Principal Secretary to Govt. Science & Technology Department, Civil Sectt. Jammu/Srinagar.
2. Additional Director, JKST&IC for Inf.
3. Registrar University of Kashmir for information
4. P.A to Vice Chancellor University of Kashmir for information of the VC.

## Budget allocation



**OFFICE OF THE DEAN RESEARCH**  
UNIVERSITY OF KASHMIR, HAZRATBAL  
NAAC ACCREDITED A+

### ORDER

Sub: Authorization for Utilization/Allocation of grant of Rs.1,28,000/- under JKST&IC Sponsored Research Project entitled "An integrated approach....."  
Ref: No. KU/2024-DGEI-4353, Dated: Nil

Dr. Irfan Rashid, Principal Investigator, Department of Geo-informatics is authorized to utilize the 1<sup>st</sup> instalment of Rs.1,28,000/- (Rupees One Lac Twenty Eight Thousand Only) released by the JKST&IC under the sponsored project entitled "An integrated approach....." as per the following break-up, subject to the adherence of all project guidelines/codal procedure as in vogue.

S.No	Budget Head/Items	Amount (INR)
1	Manpower Salary:- 1. Junior Project Fellow (JPF)	Rs.80,000/-
2	Travel/Fieldwork	Rs.10,000/-
3	Consumables	Rs.10,200/-
4	Contingency	Rs.15,000/-
5	Overhead Charges@10%	Rs.12,800/-
	Total	Rs.1,28,000/-

By Order;

*Irfan Rashid*  
Assistant Registrar  
(RESEARCH PROJECTS)  
14/3/24

No. 10 Utilization-1<sup>st</sup> Instalment) DRE/S&D/24  
Dated: 14<sup>th</sup> Mar, 2024.

Copy for:

1. Principal Investigator, Department of Geo-informatics;
2. Concerned D.A. Accounts Unit, Dean Research Office;
3. Master file;
4. File.

**“Hyperspectral Imaging for sharper definitions of Himalayan Ecosystems  
and its high value plant species under climate uncertainties”**

**Funding agency: National Mission on Himalayan Studies, Ministry of  
Environment, Forest & Climate Change, Government of India.**

# First release of payment



**"NATIONAL MISSION ON HIMALAYAN STUDIES"**  
**C. R. Post National Institute of Himalayan Environment and Sustainable Development**  
**(GNPNIHESD)**  
 Kosi-Kabarnah, Almora - 263642, Uttarakhand, India

Ref. No.: GNPNIHESD/2017/18742/16

Date: 26/11/2018

To,  
**Dr. Prashant Kumar Srivastava**  
 Institute of Environment and Sustainable Development  
 Banaras Hindu University, Varanasi  
 Uttar Pradesh

Subject: Approval of the Budget Grant (BG) for the project entitled "Hyperspectral Imaging for sharper definitions of Himalayan Ecosystems and its high value plant species under climate uncertainties"

It is directed to convey the approval of the Competent Authority for the above mentioned project of a total cost of **Rs.2,23,74,540.00/- (Rupees Two Crore Twenty Three Lakh Seventy Four Thousand Five Hundred Sixty only)** for a period of three years, as per the Break-up given below:

Head	1 <sup>st</sup> year (In Rs.)	2 <sup>nd</sup> year (In Rs.)	3 <sup>rd</sup> year (In Rs.)	Total
<b>A. Retaining:</b>				
(i) Salary of staff @ Rs.16,000 per month + 10% DA + 2% 1500/- per month + 10% DA for three years (1.00 @ Rs.25,000/- + 10% DA for first two years and Rs.25,000/- + 10% DA for third year) (2.00 @ Rs.25,000/- + 10% DA for first two years and Rs.25,000/- + 10% DA for third year) and 12 Lab. Assistant @ Rs.17,000/- per month for three years	2231690.00	2231690.00	2231200.00	6694580.00
(ii) Travel	25000.00	25000.00	25000.00	75000.00
(iii) Contingencies	50000.00	50000.00	50000.00	150000.00
(iv) Conferences	50000.00	50000.00	40000.00	140000.00
(v) Activities & other project cost: Field surveys, Lab work, Conduction of Conferences, seminars/workshop and other cost including hiring of field rate under the project expenditure.	80000.00	75000.00	75000.00	230000.00
(vi) Institutional charges/Overhead	0.00	20000.00	20000.00	40000.00
<b>B. Non Retaining</b>				
(i) Equipment: Hyperspectral Radiometer (18 items with all accessories) to be procured.	800000.00	0.00	0.00	800000.00
<b>Grand Total Rs.00</b>	<b>3481690.00</b>	<b>3231690.00</b>	<b>3481200.00</b>	<b>10194580.00</b>

Grantee Contribution should be 10% of the project cost.

काशी हिन्दू विश्वविद्यालय  
 कुनसविय पर्यटन विकास  
 काशी-221005

पत्रांक: काशी/वि.प.07/683/

69899

दिनांक: 02.11.2018

परिशिष्ट अनुसंधान एवं आरक्षण बजट के हेतु पत्रिका

- ✓ विदेशी पर्यटकों एवं भारतीय विकास संस्थान, का.हि.वि.वि.।
- ✓ डॉ. प्रशान्त कुमार श्रीवास्तव, प्रधान अध्येक्षक, पर्यटन एवं धारणीय विकास संस्थान, का.हि.वि.वि.।
- ✓ महायन्त्र कुनसविय (दिलीप शर्मा), परिशोधन, पत्रा विभाग, का.हि.वि.वि.।
- ✓ श्री गुलाम नसर, अतिरिक्त महायन्त्र, विकास विभाग, का.हि.वि.वि.।

डॉ. के.एस.एस.एस.  
 महायन्त्र कुनसविय (दिलीप शर्मा)  
 का.हि.वि.वि.  
 26/11/18



## First release of payment

काशी हिन्दू  
विश्वविद्यालय

BANARAS HINDU  
UNIVERSITY



Institute of Environment &  
Sustainable Development

Ref: NMHS/HIS/Revised001

September 11, 2018

Dear Sir,

**Sub:** National Mission on Himalayan Studies, G.B. Pant National Institute of Himalayan Environment and Sustainable Development (GNPNIHESD), Ministry of Environment Forest & Climate Change, Govt. of India project approval and fund allocation to co-investigators


I am happy to inform you that your "**Hyperspectral Imaging for sharper definitions of Himalayan Ecosystems and its high value plant species under climate uncertainties**" has been approved for funding for 3 years. The first year budget heads allocated to your institute are given in the table below.

Budget Head	1st Year (in Rs.)
1 JRF (a Rs. 25000/-pm for 1st and 2nd year and a Rs. 28000 - pm for 3rd year) 8% dHRA	324000
Contingency	100000
Consumable	50000
Travel	50000
<b>Total</b>	<b>524000</b>

An amount of **Rs. 524000/-** has been transferred to your institute through accounts office BHS, Varanasi. You are requested to send us quarterly progress reports and utilization certificates every year of the project.

Regards,

To,  
Dr Irfan Rashid  
Department of Earth Science  
University of Kashmir

  
Dr. Prashant K. Srivastava  
Principal, Institute of Environment & Sustainable Development  
Banarasi Campus  
Varanasi - 221005  
U.P. India



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## Utilization certificate and Statement of expenditure for year 2018-19

### UTILIZATION CERTIFICATE MINISTRY OF ENVIRONMENT AND FORESTS

For the period from 11-09-2018 to 31-03-2019 financial year (2018-19)

1.	Title of the project/Scheme/Programme	"Hyperspectral Imaging for sharper delineations of Himalayan Ecosystems and its High Value Plant Species under Climate Uncertainties"
2.	Name of the Principle Investigator & Organization.	Dr Infaq Rashid, Dept. Of Earth Science, University of Kashmir, Srinagar, J & K India
3.	Ministry of Environment & Forests Letter No. and date of sanctioning the project	NMHS/HIS/002 Dated:- 11-09-2018
4.	Amount brought forward from the previous financial year, quoting the Ministry of Environment & Forests Letter No. and date on which the Authority to carry forward the said amount was given	Rs. Nil
5.	Amount received from Ministry of Environment & Forests during the financial year No. & Date.	Rs. 5,76,000.00 NMHS/HIS/002 Dated:- 11-09-2018
6.	Accrued bank Interest	Rs. 904.00
7.	Total amount that was available for expenditure (Excluding commitments) incurred during the financial year (2018-19) (S.No.4+5)	Rs. 5,77,304.00
8.	Actual expenditure (Excluding commitments) incurred during the financial year (2018-19).	Rs. 1,02,572.00
9.	Unspent Balance amount refunded, if any: [Please give details of cheque no. etc.]	Rs. Nil
10.	Balance amount available at the end of financial year (2018-19)	Rs. 4,74,732.00
11.	Amount allowed to be Carried forward to the next financial year	Rs. 4,74,732.00

Certified that the expenditure of **Rs.1,02,572.00 (Rupees One Lakh Two Thousand Five Hundred Seventy Two Only)** mentioned against Sr. no.8 was actually incurred on the project/scheme for the purpose it was sanctioned.

Date:

  
**Dr. Irfan Rashid (PI)**  
MoEF&CC Sponsored Project  
on Hyperspectral Imaging  
Department of Earth Sciences  
University of Kashmir  
(Principal Investigator)

  
(Finance Officer)  
Director Finance  
(DR, Accounts)  
University of Kashmir

  
(Dean Research)  
Dean Research  
University of Kashmir

For Amir Jinn & Associates  
Chartered Accountants  
FRN: 021909 N  
(Chartered Accountant)  
Arshad Hussain (Partner)  
M. No. 5214/7

OUR REF. No. NMHS/RIS/002  
Dated: 11-09-2018

ACCEPTED AND COUNTERSIGNED

Date:

COMPETENT AUTHORITY  
NATIONAL MISSION ON HIMALAYAN STUDIES (GBPNIHESD)

NMHS-PMU

Page 2 of 2



**EXPENDITURE STATEMENT**  
**MINISTRY OF ENVIRONMENT & FORESTS (NMHS PROJECT)**  
 Statement showing the expenditure of the period from 11-09-2018 to 31-03-2019

Sl. No. & Date: NMHS/BS/MS/2018/04-11-09-2018

Total outlay of the project: Rs. 16,01,968.00

1. Date of Start of the Project: 3 Years (Three Years)

2. Duration: 3 Years (Three Years)

3. Date of Completion: -

4. Amount received during the financial year (2018-19): Rs. 5,76,400.00

5. Unspent amount carried forward from previous financial year (2018-19): Rs. Nil

6. Interest earned / accrued (2018-19): Rs. 16,903.00

Total amount available for Expenditure (4+5+6): Rs. 5,93,303.00

S.No.	Budget head	Amount Carried forward	Amount received during the year	Other receipts / interest earned	Total amount Available for Expenditure	Expenditure Incurred	Amount Balance / Excess Expenditure
I	II	III	IV	V	VI(III+IV+V)	VII	VIII(VI-VII)
1	Salaries	-	1,24,000.00	-	1,24,000.00	48,283.00	75,717.00
2	Contingency	-	1,00,000.00	-	1,00,000.00	2,807.00	97,193.00
4	Consumables	-	50,000.00	-	50,000.00	-	50,000.00
5	Travel	-	14,000.00	-	14,000.00	-	14,000.00
6	Overhead	-	12,400.00	-	12,400.00	12,400.00	-
7	Accrued bank interest	-	-	904.00	904.00	-	904.00
8	Total	-	5,76,400.00	904.00	5,77,304.00	1,62,577.00	4,14,727.00

*Dr. Brian Rashid*  
**Dr. Brian Rashid (PI)**  
 MoEF/CC Sponsored Project  
 On Hyperspectral Imaging  
 Dept. of Environment & Forests  
 University of Kashmir

*Arshad Hussain*  
**Arshad Hussain**  
 Finance Officer  
 MoEF/CC Sponsored Project  
 On Hyperspectral Imaging  
 Dept. of Environment & Forests  
 University of Kashmir

*Dr. B. Rashid*  
**Dr. B. Rashid**  
 Dean Research  
 Dept. Research  
 University of Kashmir

For Approval - 31-03-2019  
 Arshad Hussain (PI)  
 W. No. 52141

## Utilization certificate and Statement of expenditure for year 2020-21

### PROVISIONAL UTILIZATION CERTIFICATE MINISTRY OF ENVIRONMENT AND FORESTS

For the period from 01-04-2020 to 30-09-2020 financial year (2020-21)

1.	Title of the project/Scheme/Programme	"Hyperspectral Imaging for sharper definitions of Himalayan Ecosystems and its high Value Plant Species under Climate Uncertainties".
2.	Name of the Principle Investigator & Organization.	Dr Irfan Rashid, Dept. Of Earth Science, University of Kashmir, Srinagar, J & K India
3.	Ministry of Environment & Forests Letter No. and date of sanctioning the project	NMHS/HIS/002 Dated:- 11-09-2018
4.	Amount brought forward from the previous financial year, quoting the Ministry of Environment & Forests Letter No. and date on which the Authority to carry forward the said amount was given	Rs. 1,65,753.00
5.	Amount received from Ministry of Environment & Forests during the financial year No. & Date	Rs. Nil
6.	Accrued bank Interest	Rs. 2,747.00
7.	Total amount that was available for expenditure (Excluding commitments) incurred during the financial year (2019-20) (S.No.4+5)	Rs. 1,68,500.00
8.	Actual expenditure (Including commitments/Bills Under Process/ PO) incurred during the financial year (2020-21).	Rs. 1,38,624.00
9.	Unspent Balance amount refunded, if any: (Please give details of cheque no. etc.)	Rs. Nil
10.	Balance amount available at the end of financial year (2020-21)	Rs. 29,876.00
11.	Amount allowed to be Carried forward to the next financial year	Rs. 29,876.00

Certified that the expenditure of **Rs. 1,38,624.00 (Rupees One Lakh Thirty Eight Thousand Six Hundred & Twenty Four Only)** mentioned against Sr. no.8 was actually incurred on the project/scheme for the purpose it was sanctioned.

Date:

  
Dr. Irfan Rashid (PI)  
MoEF&CC Sponsored Project  
(Principal Investigator)  
Department of Earth Sciences  
University of Kashmir

  
(Director Finance)  
Chief Accounts Officer  
University of Kashmir  
Srinagar

  
(Dean Research)  
Dean Research  
University of Kashmir  
  
(Chartered Accountant)

OUR REF. No. NMHS/HIS/002  
Dated:- 11-09-2018

ACCEPTED AND COUNTERSIGNED

Date:

COMPETENT AUTHORITY  
NATIONAL MISSION ON HIMALAYAN STUDIES (GBPNIHESD)

NMHS-PMU

Page 2 of 3

**PROVISIONAL EXPENDITURE STATEMENT**  
**MINISTRY OF ENVIRONMENT & FORESTS**

Statement showing the expenditure of the period from: 01-04-2020 to 30-09-2020

NAMHS/HIS/002 Dated:- 11-09-2018

Sanction No. & Date

Total outlay of the project

1. Date of Start of the Project  
Duration

2. Date of Completion

a. Amount received during the financial year (2020-21)

b. Unspent amount carried forward from previous financial year :

c. Interest earned / accrued (2020-21):

Total amount available for Expenditure (a+b+c)

S.No.	Budget head	Amount carried forward	Amount received during the year	Other receipts/ interest earned	Total Amount Available for Expenditure	Expenditure Incurred / PQ/Bills Under Process	Amount Balance / Excess Expenditure
I	II	III	IV	V	VI=(III+IV+V)	VII	VIII=(VI-VII)
1	Salaries	₹ 9,515.00	₹ -	₹ -	₹ 9,515.00	₹ -	₹ 9,515.00
3	Contingency	₹ 87,113.00	₹ -	₹ -	₹ 87,113.00	₹ 87,000.00	₹ 113.00
4	Consumables	₹ 15,995.00	₹ -	₹ -	₹ 15,995.00	₹ 15,864.00	₹ 131.00
5	Travel	₹ 37,760.00	₹ -	₹ -	₹ 37,760.00	₹ 35,760.00	₹ 2,000.00
6	Overhead	₹ -	₹ -	₹ -	₹ -	₹ -	₹ -
7	Accrued bank interest	₹ 15,370.00	₹ -	₹ 2,747.00	₹ 18,117.00	₹ -	₹ 18,117.00
8	<b>Total</b>	₹ 1,65,753.00	₹ -	₹ 2,747.00	₹ 1,68,500.00	₹ 1,38,624.00	₹ 29,876.00

Note: Last fellowship Drawn upto January 2020 - amount to be claimed from February 2020 to September 2020 i.e Rs.2,67,840/-

Fellowship of the JRF has been revised by MoEF&CC vide order no. 38/J/2017-RE dated: 24/7/2019 wef 1/1/2019 and arrears from Feb 2019 to Jan 2020 as per the revised guidelines i.e. 77760/-

*Dr. Inan Rashid (PI)*  
MoEF&CC Sponsored Project  
Principal Investigator  
Department of Earth Sciences  
University of Kashmir

*Director Finance*  
Chief Accounts Officer  
The University of Kashmir  
Srinagar

*Dean Research*  
University of Kashmir



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Certified that the expenditure of **Rs. 1,38,624.00 (Rupees One Lakh Thirty Eight Thousand Six Hundred & Twenty Four Only)** mentioned against Sr. no.8 was actually incurred on the project/scheme for the purpose it was sanctioned.

Date:

  
Dr. Irfan Rashid (PI)  
MoEF&CC Sponsored Project  
(Principal Investigator)  
Department of Earth Sciences  
University of Kashmir

  
(Director Finance)  
Chief Accounts Officer  
The University of Kashmir  
Srinagar

  
(Dean Research)  
Dean Research  
University of Kashmir  
  
(Chartered Accountant)  


OUR REF. No. NMHS/HIS/002  
Dated:- 11-09-2018

ACCEPTED AND COUNTERSIGNED

Date:

COMPETENT AUTHORITY  
NATIONAL MISSION ON HIMALAYAN STUDIES (GBPNIHESD)

NMHS-PMU

Page 2 of 3

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## Utilization certificate and Statement of expenditure for year 2020-21

UTILIZATION CERTIFICATE MINISTRY OF ENVIRONMENT AND FORESTS	
For the period from 01-04-2020 to 31-03-2021 financial year (2020-21)	
1.	Title of the project/Scheme/Programme "Threat spectral imaging for changes detection of Himalayan Ecosystems and its High Value Plant Species under Climate Change Resilience".
2.	Name of the Principle Investigator & Organization, Dr. Vikas Bhatia, Dept. Of Earth Science, University of Western Australia, 2 & 8, India.
3.	Ministry of Environment & Forests Letter No. and date of sanctioning the project MMS/2020/002 Dated- 11.09.2019
4.	Amount brought forward from the previous financial year, quoting the Ministry of Environment & Forests Letter No. and date on which the Authority to carry forward the said amount was given Rs. 1,65,700.00
5.	Amount received from Ministry of Environment & Forests during the financial year No. & Date Rs. 2,14,300.00
6.	Accrued bank interest Rs. 4,702.00
7.	Total amount that was available for expenditure (Excluding commitments) incurred during the financial year (2020-21) (S.No.4+5+6) Rs. 3,85,245.00
8.	Actual expenditure (Excluding commitments) incurred during the financial year (2020-21). Rs. 2,93,845.00
9.	Unspent balance amount refunded, if any: (Please give details of cheque no. etc.) Rs. Nil
10.	Balance amount available at the end of financial year (2020-21) Rs. 91,390.00
11.	Amount allowed to be Carried forward to the next financial year 2021-22 Rs. 91,390.00

Certified that the expenditure of **Rs. 2,93,845.00 (Rupees Two Lakh Ninety Three Thousand Eight Hundred & Forty Five Only)** mentioned against Sr. no.8 was actually incurred on the project/ Scheme for the purpose it was sanctioned.

Date:

*Sanjay Kumar*  
(Principal Investigator)  
Dr. Sanjay Kumar (PI)  
MoE/ICCT Sponsored Project  
on Hyperspectral Imaging  
Department of Earth Sciences  
University of Kashmir

(10)

*Prof. S. K. Singh*  
(Head Research)  
Earth Research  
University of Kashmir

*Dr. Sanjay Kumar*  
(Director, Project)  
Dr. Sanjay Kumar  
Dr. Sanjay Kumar  
(Chairman)  
MoE/ICCT Sponsored Project  
on Hyperspectral Imaging  
Department of Earth Sciences  
University of Kashmir

OUR REF. No. 104/2019/102  
Date: 11-09-2019

ACCEPTED AND COUNTERSIGNED

(1)

Date:

COMPETENT AUTHORITY  
NATIONAL MISSION ON HIMALAYAN STUDIES (GNPHESD)

NMHS-PMU

Page 2 of 2

**EXPENDITURE STATEMENT**  
**MINISTRY OF ENVIRONMENT & FORESTS**

Statement showing the expenditure of the period from 01-04-2021 to 31-03-2022

Statement No. & Date: N/A

Statement No. & Date: N/A

Rs. 10,00,000.00

11.04.2021

3 Years (Three Years)

Rs. 1,14,60,000.00

Rs. 1,46,70,000.00

Rs. 4,29,200.00

Rs. 3,80,000.00

Rs. 4,29,200.00

Rs. 4,29,200.00

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Rs. 4,29,200.00

Rs. 4,29,200.00

Rs. 4,29,200.00

Sl. No.	Budget head	Amount (Original)	Amount (Actual)	Amount (Actual)	Other charges/ items actual	Total amount available for expenditure	Expenditure incurred	Amount Reported (Less Expenditure)
1	Salaries	₹ 5,15,000	₹ 5,15,000	₹ 5,15,000		₹ 5,15,000	₹ 5,15,000	₹ 0
2	Grants	₹ 4,11,100	₹ 4,11,100	₹ 4,11,100		₹ 4,11,100	₹ 4,11,100	₹ 0
3	Contractual	₹ 13,29,000	₹ 13,29,000	₹ 13,29,000		₹ 13,29,000	₹ 13,29,000	₹ 0
4	Travel	₹ 37,500	₹ 37,500	₹ 37,500		₹ 37,500	₹ 37,500	₹ 0
5	Interest	₹ 13,29,000	₹ 13,29,000	₹ 13,29,000		₹ 13,29,000	₹ 13,29,000	₹ 0
6	Account bank balance	₹ 1,46,70,000	₹ 1,46,70,000	₹ 1,46,70,000	₹ 4,29,200	₹ 1,46,70,000	₹ 1,46,70,000	₹ 0
7	Total	₹ 1,46,70,000	₹ 1,46,70,000	₹ 1,46,70,000	₹ 4,29,200	₹ 1,46,70,000	₹ 1,46,70,000	₹ 0

Note: An amount of Rs.15,15,000/- amount received in interest from bank during the year 2018-19 & 2019-20 has been adjusted to other head by tender agency.

*Principal Investigator*  
**Dr. Uday Rastogi (PI)**  
NATURAL SCIENCE PROJECT  
on Agro-ecological Imaging  
Department of Earth Sciences  
University of Delhi, W

*Principal Investigator*  
**Dr. Uday Rastogi**  
NATURAL SCIENCE PROJECT  
on Agro-ecological Imaging  
Department of Earth Sciences  
University of Delhi, W


*Principal Investigator*  
**Dr. Uday Rastogi**  
NATURAL SCIENCE PROJECT  
on Agro-ecological Imaging  
Department of Earth Sciences  
University of Delhi, W





Certified that the expenditure of **Rs. 2,93,845.00 (Rupees Two Lakh Ninety Three Thousand Eight Hundred & Forty Five Only)** mentioned against Sr. no.8 was actually incurred on the project/scheme for the purpose it was sanctioned.

Date:

  
(Principal Investigator)  
**Dr. Irfan Rashid (PI)**  
McEF&CC Sponsored Project  
on Hyperspectral Imaging  
Department of Earth Sciences  
University of Kashmir

  
(Director Finance)  
University of Kashmir

  
(Dean Research)  
**Prof. S.A. Ramtha**  
Dean Research  
University of Kashmir



OUR REF. No. NMHS/HS/02  
Dated - 11-09-2018

ACCEPTED AND COUNTERSIGNED

Date:

COMPETENT AUTHORITY  
NATIONAL MISSION ON HIMALAYAN STUDIES (GNHESD)

## Utilization certificate and Statement of expenditure for year 2021-22

### UTILIZATION CERTIFICATE MINISTRY OF ENVIRONMENT AND FORESTS

For the period from 01-04-2021 to 30-11-2021 financial year (2021-22)

1.	Title of the project/Scheme/Programme:	"Hyperspectral Imaging for sharper definition of Himalayan Ecosystems and its High Value Plant Species under Climate Uncertainties".
2.	Name of the Principle Investigator & Organization:	Dr. Jagan Hoshid, Dept. Of Earth Science, University of Kashmir, Srinagar, J&K India
3.	Ministry of Environment & Forests Letter No. and date of sanctioning the project:	NMHS/HRS-012 Dated:- 11-09-2018
4.	Amount brought forward from the previous financial year, quoting the Ministry of Environment & Forests Letter No. and date on which the Authority to carry forward the said amount was given:	Rs. 91,300.00
5.	Amount received from Ministry of Environment & Forests during the financial year No. & Date:	Rs.1,35,000.00
6.	Accrued bank interest:	Rs. 2,256.00
7.	Total amount that was available for expenditure (Excluding commitments) incurred during the financial year (2021-22) upto Nov 2021 (X.Ms #11/0):	Rs. 2,28,556.00
8.	Actual expenditure (including commitments) incurred during the financial year (2021-22) upto Nov 2021:	Rs. 8,04,868.00
9.	Unspent Balance amount retained, if any. (Please give details of charge no. etc.):	Rs. Nil
10.	Balance amount available at the end of the period as on 30.11.2021:	(Rs. 5,76,312.00)

Certified that the expenditure of Rs. 8,84,000.00 (Rupees Eight Lakh Four Thousand Eight Hundred & Sixty Eight Only) incurred against Sr. 163 (including Committed Expenditure of Rs.6,67,000.00) was incurred as per attached schedule for the purpose it was intended.

Date:

*[Signature]*  
 Director  
 University of Kashmir  
 Jammu

*[Signature]*  
 Director  
 University of Kashmir  
 Jammu

*[Signature]*  
 Principal Investigator  
 Dr. Bhanu Baskid (PI)  
 MHRDC Sponsored Project  
 on Hypertension/Ischemic  
 Department of Earth Sciences  
 University of Kashmir

*[Signature]*  
 Dean Research  
 University of Kashmir

OUR REF. No. *[Signature]*  
 Dated: 11.06.2018

ACCEPTED AND AUTHORIZED

Date:

COMPTROLLER GENERAL OF ACCOUNTS  
 NATIONAL MONITORING & EVALUATION SYSTEM (NMES)

Page 2 of 2

STATEMENT OF EXPENDITURE  
 MINISTRY OF ENVIRONMENT & FORESTS

Statement showing the expenditure of the period from 01-04-2021 to 31-11-2021  
 Section No. & Date: *[Signature]* 11/06/2018  
 Total value of the project: Rs. 10,00,000.00  
 1. Date of Start of the Project: 15.03.2018  
 2. Duration: 3 Years (3 New Years) + Extension  
 3. Date of Completion: 30.11.2021  
 a. Amount received during the financial year (2021-22): Rs. 1,20,000.00  
 b. Unspent amount carried forward from previous financial year: Rs. 0.00  
 c. Amount received / carried forward (2021-22): Rs. 2,25,000.00  
 Total amount available for Expenditure: Rs. 3,45,000.00

S.No.	Budget head	Amount Carried forward	Amount received during the year	GRANT RECEIVED / Amount received	Total Amount Available for Expenditure	Actual Expenditure	Committed Expenditure	Total Expenditure (Actual)	Unspent Balance / Unspent Expenditure
1.	II	III	IV	V	VI (III+IV+V)	VII	VIII	IX (VII+VIII)	X (VI-IX)
1.	Salaries	₹ 0.00	₹ 1,20,000.00		₹ 1,20,000.00	₹ 1,20,000.00	₹ 1,20,000.00	₹ 2,40,000.00	₹ -1,20,000.00
2.	Contingency	₹ 25,000.00	₹ -		₹ 25,000.00	₹ 25,000.00	₹ -	₹ 25,000.00	₹ -
3.	Consumables	₹ 80,000.00	₹ -		₹ 80,000.00	₹ -	₹ -	₹ -	₹ 80,000.00
4.	Travel	₹ 3,700.00	₹ -		₹ 3,700.00	₹ -	₹ -	₹ -	₹ 3,700.00
5.	Grants	₹ -	₹ -		₹ -	₹ -	₹ 1,00,000.00	₹ 1,00,000.00	₹ -
6.	Interest	₹ 4,300.00	₹ -	₹ 2,25,000.00	₹ 2,29,300.00	₹ -	₹ -	₹ -	₹ 2,29,300.00
7.	Total	₹ 10,800.00	₹ 1,20,000.00	₹ 2,25,000.00	₹ 2,55,800.00	₹ 1,45,000.00	₹ 1,20,000.00	₹ 2,65,000.00	₹ -1,09,200.00

*[Signature]*  
 Principal Investigator  
 Dr. Bhanu Baskid (PI)  
 MHRDC Sponsored Project  
 on Hypertension/Ischemic  
 Department of Earth Sciences  
 University of Kashmir

*[Signature]*  
 Director  
 University of Kashmir

*[Signature]*  
 Dean Research  
 University of Kashmir

*[Signature]*  
 Director  
 University of Kashmir

Certified that the expenditure of **Rs. 8,04,868.00 (Rupees Eight Lakh Four Thousand Eight Hundred & Sixty Eight Only)** mentioned against Sr. no.7 (Including Committed Expenditure of Rs.6,67,636/-) was incurred on the project/Scheme for the purpose it was sanctioned.

Date:

  
(Principal Investigator) **Prof. Dr. An Rashid (PI)**  
McEF&CC Sponsored Project  
on Hyperspectral Imaging  
Department of Earth Sciences  
University of Kashmir

  
(Dean Research)  
**Dean Research**  
**University of Kashmir**

  
(Chartered Accountant)  


OUR REF. No. NMBS/110/012  
Date: 11-09-2018

ACCEPTED AND COUNTERSIGNED

Date:

COMPETENT AUTHORITY  
NATIONAL MISSION ON HIMALAYAN STUDIES (GHPNHESD)