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GOVERNMENT OF INDIA MINISTRY OF ROBINGF AND TELLS. DEPARTMENT & SUBNOT AND TELLS THE INCLUSION BHAVAN NEW METHAGE TO

Dated: 10-09-2014

No. INT/FRG/DAAD/P-238/2014

ORDER

Sanction of the President is hereby accorded for implementation of the Indo-German (DST-DAAD) joint research project entitled "Towards a better mechanistic understanding of colonization: Biogeographic analysis and population genetics of two highly invasive Asteraceae species" at a total cost of Rs. 7,23,000/-(Rupees Seven Lac Twenty Three Thousand Only). The duration of the project shall be 2 years from date of issue of this sanction order. The requests for extension of the project beyond this validity shall NOT be considered in any case.

The composition of the project team is as below-

2. The composition of the project team is as below.	-
Indian side	German side
i.) Dr. Manzoor A. Shah, Sr. Assistant Professor, Professor for Plant Ecology, Department of Botany, Institute of Biology. University of Kashmir, Srinagar, J&K ii.) Zafar A Reshi iii.) Naiera Bhat	i.) Dr. Isabell Hensen, Professor, Institute of Biology, Martin-Luther-University of Hulle- Wittenberg ii.) Christoph Rosche, Ph.D. Student

The change replacement of project participants is not allowed. The participating scientists should be working on the project and affiliated with the Institute/University holding the indicated position at the time of start of the project as well as at the time of exchange visits under the project. The expenditure related to approve visits of participating scientists, as mentioned above, only can be met from the project grant.

4. The break-up of estimated expenditure is as indicated below and no re-appropriation shall be allowed under this project:-

	Estimated expe	nditure(s)	
<u>Headings</u>	1 st year	2 nd year	Total
1. Expenses for Indian scientists to visit Germany under the project International air fure (by IATA excursion/ economy class by shortest route) including surface travel from place of work in India to place of work in Germany & back; Visal charges. Medical Insurance etc @ Rs. 65000/- per visit	(2 visits) (30&60 days) 1,30,000/-	(1 visit) (15 days) 65,000/-	(3 visits) 1,95,000/-
2. Expenses for German scientists to visit India under the project (i) Accommodation charges a Rs. 3500/- per day. (ii) Per-diem charges a Rs. 2500/- per day.	(2 visits) (14 days each) 98,000/- 70,000/-	(1 visit) (60 days) 2,10,000/- 1,50,000/-	(3visits) 5.08.000- 2.20.000-
3. Total	2,98,000/-	4,25,000/-	7,23,000/-

(Rupees Seven Une Twenty Three Thousand Only)

Contd. p/2

<u>C.2.</u>



Central Himalayan Environment Association (CHEA)

06, Waldorf Compound, Mallital, Nainital-263001

Telefax: = 91 5942-233099 Emsil: http.pnm.ches/agmail.com : cheaindia/agmail.com

To,

Prof. Zafar.A. Reshi Principal Investigators (PI) Indian Himalayan Timberline Research Project (IHTRP) University of Kashmir, Srinagar Jammu& Kashmir

Letter no: 1886/XII-86/2016

Date: 12/05/2016

Subject: Description of sanctioned budget for first year

Dear Sir,

This has reference to the project sanctioned to PMU-CHEA under National Mission of Himalayan Studies (NMHS) entitled "Timberline and Altitudinal Gradient Ecology of Himalayas, and Human Use Sustenance in a Warming Climate". We are happy to inform you that your sub project entitled "Plant diversity and community structure along altitude gradient in three sites of Indian Himalayan region" submitted by you has been sanctioned. As you are aware that the project focuses on timberline zones of three Indian Himalayan state viz. Uttarakhand, Jammu & Kashmir and Sikkim where diverse studies/research have to be carried out during next three years.

Kindly take reference of 02 days "Inception Workshop-cum-Discussion Meeting" held on 14-15th April 2016 at Naukuchiyatal. As agreed during meeting the overall budget allocated/sanctioned for your project is Rs.44,88,000.00 excluding equipments. The detail of budget for first year is given hereunder:

SI.	Particular	Budget for ist year (Rs.)
1	Salary	6,91,200.00
2	Travel	2,50,000.00
3	Consumable	2,00,000.00
4	Contingencies	1,00,000.00
5	Other cost	1,64,000.00
[Total	14,05,200.00

Kindly send your duly signed acceptance along with bank details duly signed by competent authority. You are also requested to send a certificate that you have not applied to any other funding agency nor received any grant for the above project.

Thanking you in advance in anticipation of kind support in this regard.

Thanking you

Yours sincerely

(Dr. Pankaj Tewari) Executive Director (In charge) CHEA, Nainital





No. BT/PR5525/PBD/16/980/2012 **GOVERNMENT OF INDIA** MINISTRY OF SCIENCE & TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY

> Block 2, 6-8th Floors CGO Complex, Lodhi Road, New Delhi- 110 003 Dated:20/1/127ン

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules ,1978 , for the implementation of the project entitled "Tissue Culture Based Network Programme on Saffron (Crocus sativus L.)" for a period of 5 Year 0-Month at a total cost of Rs. 10471000 (Rupees One Crores Four Lakhs Seventy One Thousand Only) on the terms and conditions detailed here under:-

2 The Project:

2.1 Title: "Tissue Culture Based Network Programme on Saffron (Crocus sativus L.)"

2.2 Project Investigator:

Dr. Azra Nahaid Kamili

Coordinator & PI Centre of Research for Development University of Kashmir Hazratbal, Srinagar -190006, Jammu And Kashmir

Dr. Irshad A Nawchoo

Scientist Department of Biotechnology University of Kashmir Hazratbal, Srinagar -190006, Jammu And Kashmir

Dr. Madhu Sharma Sr. Principal Scientist Biotechnology INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY --, Palampur -176061, Himachal Pradesh

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Page No. [1 / 7]

Mc. BT/PR5534/P8D/16/1006/2012 **GOVERNMENT OF INDIA** MINISTRY OF SCIENCE & TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY

> Block 2, 6-8th Floors CGO Complex, Lodhi Road, New Delhi- 110 003 Dated: 08/01/2013

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules ,1978 , for the implementation of the project entitled "CHARACTERIZATION OF MICROFLORA OF RHIZOSPHERE ASSOCIATED WITH SAFFRON WITH A TARGET TO DEVELOP CONSORTIA OF BENEFICIAL MICROBES" for a period of 3 Year 0 Month at a total cost of Rs. 14992800 (Rupees One Crores Fourty Nine Lakhs Ninety Two Thousand Eight Hundred Only) on the terms and conditions detailed here under:-

2 The Project:

2.1 Title:

"CHARACTERIZATION OF MICROFLORA OF RHIZOSPHERE ASSOCIATED WITH SAFFRON WITH A TARGET TO DEVELOP CONSORTIA OF

BENEFICIAL MICROBES"

2.2 Project Investigator:

Dr. Jyoti Vakhlu

Associate Professor School of Biotechnology University of Jammu , Jammu -

180006, Jammu And Kashmir

Dr. Arvind Gulati

Senior Principal Scientist Hill Area Tea Science Division Institute of Himalayan Bioresource Technology Post Box No. 6, Palampur -176061, Himachal Pradesh

Prof. K K Koul

Coordinator Вотапу Jiwaii University , Gwalior -474011, Madhya Pradesh

Prof. K K Koul

Professor

School of Studies in Botany

Jiwaji University

, Gwalior -

474011, Madhya Pradesh

Prof. Zaffar A Reshi

Professor

Department of Botany

University of Kashmir

, Srinagar -

190006, Jammu And Kashmir

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No. BT/PR5409/PBD/16/977/2012

GOVERNMENT OF INDIA MINISTRY OF SCIENCE & TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY

> Block 2, (6-8th Floors) CGO Complex, Lodhi Road, New Delhi- 110 003 Date: 06 /02 / 2013

RELEASE ORDER

In continuation of this Department's sanction order of even number dated Jan 08, 2013 sanction of the President is hereby accorded, under Rule18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. 1892400.00 (Rupees Eighteen Lakhs Ninety Two Thousand Four Hundred Only) being the first year release for the project entitled "Induction of variability for genetic improvement of Kashmir Saffron", being implemented by

Dr. Ajaz Ahmad Wani, University of Kashmir, Hazratbal, Srinagar - 190006, Jammu And Kashmir

Prof. Manoi Kumar Dhar, University of Jammu, B.R. Ambedkar Road, Jammu - 180006, Jammu And Kashmir

The detailed break-up is as given below:

Institute Name			Recu	ırring			Total Release Amount (Rs)
	Manpower	Consumable	Travel	Contingency	Others	Overhead	
University of Jammu	412800.00	500000,00	50000.00	50000.00	0.00	50000.00	1062800.00
University of Kashmir	429600.00	200000.00	50000.00	75000.00	0.00	75000.00	829600.00
	University of Jammu University of	Manpower University of Jammu 412800.00 University of 429600.00	Manpower Consumable University of Jammu 412800.00 500000.00 University of 429600.00 200000.00	Manpower Consumable Travel University of Jammu 412800.00 500000.00 50000.00 University of 429600.00 200000.00 50000.00	Manpower Consumable Travel Contingency University of Jammu 412800.00 500000.00 50000.00 50000.00 University of 429600.00 200000.00 50000.00 75000.00	Manpower Consumable Travel Contingency Others University of Jammu 412800.00 500000.00 50000.00 50000.00 0.00 University of 429600.00 200000.00 50000.00 75000.00 0.00	Manpower Consumable Travel Contingency Others Overhead University of Jammu 412800.00 50000.00 50000.00 50000.00 0.00 50000.00 University of 429600.00 200000.00 50000.00 75000.00 0.00 75000.00

2. The amount of Rs. 1892400.00 /-(Rupees Eighteen Lakhs Ninety Two Thousand Four Hundred Only) will be drawn by the Drawing & Disbursing Officer, DBT, from the Pay & Accounts Officer, DBT, and disbursed through RTGS as per following details:

1 Rs.829600.00/- (Rupees Eight Lakhs Twenty Nine Thousand Six Hundre Only) to The Dean Research, University of Kashmir, Hazratbal, Srinagar - 190006, Jammu And Kashmir

Eank Name : Canara Bank Ltd.

Branch Name: Srinagar

A/c No. -: 1190201001837 IFSC Code : CNRB0001190

MICR Code : 190015002

2. Rs.1062800.00/- (Rupees Ten Lakhs Sixty Two Thousand Eight Hundred Only) to The Registrar, University of Jammu, , Jammu - 180006, Jammu And Kashmir

Bank Name : Jammu & Kashmir Bank Ltd.

Branch Name: New University Campus

A/c No. : 0345010100000001

IFSC Code : JAKAOCANAAL

MICR Code : 180051018

3. The expenditure involved is debitable to:

Hoonabula'

C-SA

80. BT/PR5409/PBD/16/977/2012
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

New Delhi- 110 003 Dated: 1[7-p]7-2013

ORDER

Sanction of the President is hereby eccorded, under Rule 18 of the Delegation of Financial Powers Rules ,1978, for the implementation of the project entitled "Induction of variability for genetic improvement of Kashmir Saffron" for a period of 3 Year O Month at a total cost of Rs. 9074800 (Rupees Ninety Lakhs Seventy Four Thousand Eight Hundred Only) on the terms and conditions detailed here under:

2 The Project:

5.40, 33

"Induction of variability for genetic improvement of Kashmir Saffron" 2.1 Title :

2.2 Project Investigator:

Prof. Manoj Kumar Dhar Professor Department of Biotechnology University of Jammu B.R. Ambedkar Road, Jammu 180006, Jammu And Kashmir Dr. Ajaz Ahmad Wani

Sr. Assistant Professor Department of Botany University of Kashmir Hazratbai, Srinagar 190006, Jammu And Kashmir

CO-PI:

Dr. Bashir Ahmad Ganal Associate Professor Department of Biochemistry University of Kashmir Hazratbal, Srinagar - 190006, Jammu And Kashmir

Field Assistant SRs.7000/- p.m.	P .	84000.00	84000.00	84000.00	252000.0
consolicated			345600.00		E91200.0
Bunlor Research Fellow ORS 12000/- +20% HRA for I and		345600.00	343000.00		2,22,000
Ti Year	j	 	<u> </u>	403200.00	403200,0
ellow ORS.14000/-	Ţ.,				
rear Constinct		429600.00	429500.00	487200.00	1346400.0

 Univers 	University of Kashmir								
Equipment	1155000.00			1155000.00					
Manpower	429500,00	429600.00	487200.00	1346400,00					
Overhead	75000.00	75000.00	75000.00	225000.00					
Travel	50000.00	50000.00	. 50000.00	150000.00					
Consumables	200000.00	200000.00	200000.00	600000.00					
Contingency	75000.00	75000.00	75000.00	225000.00					
Total (Rs.)	1984600.00	829600.00	887200.00	3701400.00					

2.6 Equipment:

The details of the equipment sanctioned for the implementation of the project at Annexure-I

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4oES/P.O.(Geosci)/16/2013 Government of India Ministry of Earth Sciences

Prithvi Bhavan, Lodhi Road, New Delhi- 110003 Dated: 28/03/2016

ADMINISTRATIVE ORDER

Subject: (Geological characterization of the Kashmir Valley with the objective of quantifying probabilistic hazard and risk in high risk areas of the valley using a logically integrated set of geoscientific investigations?

Approval of the Competent Authority is hereby conveyed under rule 18 of the Delegation of Financial Power Rules, 1978 for implementation of the joint project entitled "Geological characterization of the Kashmir Valley with the objective of quantifying probabilistic hazard and risk in high risk areas of the valley using a logically integrated set of geoscientific investigations" to be implemented by Department of Earth Sciences, University of Kashmir, Srinagar, and CSIR-FOURTH PARADIGM INSTITUTE, BANGALORE (Erstwhile CSIR-CMMACS), at an estimated cost of Rs. 2,49.20,430/- (Rupees two crores forty nine lakhs twenty thousand four hundred and thirty only) for three years during 2015-16 to 2017-18 (Rs 1.57.58.410/- during 2015-16, Rs56.08.410 during 2016-17 and Rs 35.53.610 during 2017-18) as per the details of the project given below :-.

2.0 Objectives:

The objective of the proposal is to quantify geological hazard and risk in high-risk areas of the valley using a logically integrated set of geo-scientific investigations: up-to-date knowledge of the tectonics and kinematics of the region, vulnerability of various structural typologies prevalent in the valley and specialized high resolution scientific investigations now well established and globally adopted for hazard quantification.

The above objective is proposed to be accomplished through the following work elements.

- 1. Geological mapping and generation of 2-D geological cross-sections across the high risk areas of the valley, along with a search for pene-contemporaneous deformation features and their subsequent characterization (nature and extent of slips, dates)
- 2. Sedimentological analysis of the sediments, complemented with borehole data for the high risk areas of the valley and geotechnical investigations.
- 3. Characterizing the subsurface geology of the valley in its various structural settings by measuring and analyzing the characteristics of environmentally generated random vibrations on the surface, using passive sensors.
- 4. Preparation of a hazard map of the valley using state of the art simulations—incorporating site-characteristics.
- 5. Preparation of a vulnerability map of the high risk areas of the valley based on demography, building typologics, structural analysis, geotechnical and user-friendly setting of infrastructure systems and available geophysical knowledge.

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6. Preparation of an earthquake risk map for the high risk areas of the Kashmir Valley as well as the design of a demonstrably reliable scientific protocol for risk assessment of critical structures and public infrastructure.

2.1 Programme & Implementation Plan:

The proposed study is chiefly focused on the assessment of geological hazard modeled on the basis of the ambient structural features and lithological variations across the high risk areas of the valley. A basic element of the proposed work that would constitute the primary data for most of the other elements of the proposal, will be the preparation of a detailed geological map of the valley and its bounding structures together with 2-D subsurface geological profiles across its various tectonic zones, as well as the geotechnical characterization of soils, especially the Karewa sediments of varying lithologies of the areas. It was considered prudent to pursue complementary approaches that can be more speedily implemented, and would expectedly provide the first order knowledge product that would be capable of being further refined as new data is gained.

It is proposed to accomplish this work through detailed geological mapping and preparation of 2-D sub-surface geological profiles along some selected cross-sections. The consequential structural elements of the valley and geotechnical characteristics of its sediment cover will be complementarily investigated along with another independent approach to analyze the characteristics of the environmentally generated random ground noise on the surface above, using an array of passive sensors, as well as selected suites of borehole data. With these investigations, would be carried out a vulnerability analysis of structures in high risk areas.

2.2 Collaborating Investigators/Institutions

This interdisciplinary initiative is multi-partnered and would be conducted jointly by the Department of Earth Sciences. University of Kashmir as the lead partner and scientists of CSIR-FOURTH PARADIGM INSTITUTE. BANGALORE (Erstwhile CSIR, C-MMACS, Bangalore). The Principal Investigator shall be responsible for the coordination of laboratory and field investigations with specific tasks assigned to each of the Co-investigators.

2.3 Implementing Organization:

Department of Earth Sciences, University of Kashmir, Srinagar, and CSIR, C-MMACS, Bangalore would be implementing this project.

2.4 Estimated Project Cost:

Total estimated cost of the joint project is Rs. 2,49,20,430/- only (Rupees two crores forty nine lakhs twenty thousand four hundred and thirty only) for three years. The first year fund requirement is Rs. 1,57,58,410/- (Rupees one crore fifty seven takhs fifty eight thousand four hundred and ten only). The year-wise/item-wise fund requirement is given below:

S.N.	Item Name	1º Year	2 nd Year	3 rd Year	Total (In Rs.)
UR H	esearch Man Power:)Kashmir Univ. (A(1) @Rs. RF (4) @Rs. (i)C-MMACS:	9,66,010	9,66,010	10,48,810	29,80,830

May

S NO UD

No. DST/INT/AUS/P-55/2013
Government of India
Ministry of Science & Technology
International Division

10.10.2013

ORDER

Sanction of the President is nereby accorded for incurring an expenditure not exceeding Rs. 48.82,800/- (Rs. Forty eight takk eighty two thousand eight hundred only) in connection with implementation of the Indo-Australian Joint Project on "Inter-dependencies of deep crustal and surficial geological processes during continental collision" by Prof Tatat Ahmad. Dept of Earth Sciences, University of Kashmir Srinagai - 190006 in collaboration with Dr. Jonathan Clement Aitchison, School of Geosciences, The University of Sydney for a total duration of three years from the date of receipt of the DD of initial grant which has to be intimated by the grantee institution.

2. The composition of the project team is as below:

Indian Side	Australian Side
i) Prof Talat Ahmad, Dept of Earth Sciences, University of Kashmir, Srinagar – 19006 ii) Prof Santanu Bhowmik Institute of Technology, Khargoar iii) Prof. Somnath Dasgupta Assam University, Silchar iv) Dr. Reyaz Ahmad Dar Dept of Earth Sciences, University of Kashmir	i) Dr. Jonathan Clement Atchison School of Geosciences The University of Sydney, Australia ii) Prof. Gordon Stuart Lister Australian National University iii) Prof Trevor Russell Ireland Australian National University iv) Dr. Margaret Anne Forster Australian National University v) Prof. Geoffrey Leslie Clarke University of Sydney

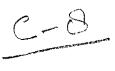
The change/replacement of project participants is not allowed. The participating scientists should be working on the project and affiliated with the Institute/University holding the indicated position at the time of start of the project as well as at the time of exchange visits under the project. The expenditure related to approve visits of participating scientists, as mentioned above, only can be met from the project grant.

3. The breakup of estimated expenditure is as indicated below and re-appropriation of funds from one budget head to the other is NOT permitted under this project:

Items of Expenditure	1 st Year	2 nd Year	3 rd Year	Total (Rs.)
A. Manpower (RA-1 position; @ Rs.22000/-+	3 16,800/-	3 16,800/-	3,16,800v-	9,50,400/-
20% HRA = 26400/- JRF - 2 position @ Rs.16000/- + 20% HRA = 19200 per month	4 60.800/	4 60,800/-	4.60,800/-	13.82 400/-
B - Local Field Work	1,50,000/-	1,50,000/-	1,50,000/-	4.50,000/-
C,- Consumables	1,00,000/-	1,00,000/-	1,00,000/-	3,00,000/-
D - Cost for visits by Indian scientists to	3 visits	3 visits	3 visits	9 visits
Australia by lowest	3,00,000/-	3,00,000/-	3,00,000/-	9.00,000/-

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No. BT/PR5397/PBD/16/974/2012
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (6-8th Floors) CGO Complex, Lodhi Road, New Delhi- 110 003

Date: 18/7/2013

RELEASE ORDER

In continuation of this Department's sanction order of even number dated Jul 18, 2013 sanction of the President is hereby accorded, under Rule18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. 9800000.00 (Rupees Ninety Eight Lakhs Only) being the first year release for the project entitled "Functional genomics approaches in understanding the regulation of synthesis and accumulation of apocarotenoids in saffron crocus (Crocus sativus L.)", being implemented by

- 1. Dr. Ashwani Pareek, Associate Professor, School of Life Sciences, Jawaharlal Nehru University, New Delhi 110067, Delhi
- 2. Dr. Manoj Kumar Dhar, Professor, Department of Biotechnology, University of Jammu, Tawi, Jammu 180006, Jammu and Kashmir
- 3. Dr. Mukesh S Jain, Staff Scientist, National Institute of Plant Genome Research, Aruna Asaf Ali Marg, New Delhi 110067, Delhi
- 4. Prof. Nikhil Kumar Chrungoo(Project Co-ordinator), Department of Botany, North Eastern Hill University, Shillong 793022
- 5. Dr. Raies Ahmad Qadiri, Associate Professor, Department of Biotechnology, University of Kashmir, , Srinagar 190006, Jammu And Kashmir

The detailed break-up is as given below:

Institute Name	Non R	ecurring	Total Release Amount (Rs)	
,	Equipment	Other		
Jawaharlal Nehru University	1650000.00	0.00	1650000.00	
4	······································	1	<u> </u>	
National Institute of Plant Genome Research	850000.00	0.00	850000.00	
North-Eastern Hill University	2000000.00	0.00	2000000.00	
University of Jammu	2300000.00	0.00	2300000.00	
University of Kashmir	3000000.00	0.00	3000000.00	
	Jawaharlal Nehru University	Pawaharlal Nehru University 1650000.00 National Institute of Plant Genome 850000.00 Research North-Eastern Hill University 2000000.00 University of Jammu 2300000.00	Pawaharlal Nehru University 1650000.00 0.00 National Institute of Plant Genome 850000.00 0.00 Research North-Eastern Hill University 2000000.00 0.00 University of Jammu 2300000.00 0.00	

2. The amount of Rs. 9800000.00 /-(Rupees Ninety Eight Lakhs Only) will be drawn by the Drawing & Disbursing Officer, DBT, from the Pay & Accounts Officer, DBT, and disbursed through RTGS as per following details:

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भारत सरकार अन्तरिक्ष विभाग

राष्ट्रीय सुदूर संवेदन केन्द्र

बालानगर, हैदराबाद-500 625, आं.प्र. भारत ਟੇਜ਼ਿਲੀਰ: +04C-23879572-76

+040-23879261-65

फेक्स: +040-23878648



Government of India Department of Space

National Remote Sensing Centre

Balanagar, Hyderabad-500 625, AP. India

Telephone +040-23879572-76

+040-23879261-65

fax: +040-23878648

Dr. C. S. Jha

Group Director, Forestry and Ecology Group

Ph: +91 40 23884219, FAX: +91 40 2388 4259.--

email: jha_cs@nrsc.gov.in

NRSC/ FEG/ VCP

Dear Dr. Anzar A Khuroo

July 03, 2015

Sub: IGBP - NCP - VCP Phase-II MoU and Release of Funds - Reg.

I am writing to thank you for your agreement to continuing the collaboration between our organisations in the ISRO Geosphere Biosphere Program - National Carbon Project - Vegetation Carbon Pool Assessment of India activity.

Kindly find enclosed herewith a copy of signed MoU and a DD No. 083630 for Rs. 5,19,300 towards the first year activity.

We request you to kindly acknowledge this with a receipt for the amount received. Please note the following conditions as required by NRSC financial procedure:

- The amount should not be used for the purpose other than, for which it is sanctioned
- Unspent balance, if any is to be refunded to NRSC by means of a DD drawn in favour of Pay and Accounts Officer, NRSC payable at Hyderabad
- Utilisation Certificate should be furnished in the format mentioned in GFR as FORM 19-A along with the expenditure details every year on their Letter Head with Seal of the officer signing the Utilisation Certificate.

We are also enclosing the list of the sample points selected for inventory and a copy of the request letter for the PCCF permission for the field studies in forested areas of your study area (for your information).

We look forward to a successful collaboration, once again.

Thanking you With best regards Purwarded to S.O (Cours) for Confirmations whether there amount of Rs. 5,19,300) yours sincerely has been received from Enjoyed (es. tha) funding agency of RPG, for GO, FEG

Dr. Anzar A Khuroo

Senior Assistant Professor

Centre for Biodiversity and Taxonomy (CBT),

Department of Botany,

University of Kashmir, Srinagar,

Jammu ənd Kashmir - 190 006, İndia

तीय अन्तरिक्ष अनुसंधान संगठन

Indian Space Research Organization

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Yorwarded to SO(Research) 1800 the remarks that an ormound Rs. 3925000/ has been Credited

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ORDER

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Non-recurring Head

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(Ry, in labelie) Year 1 30 15 Equipment's 39 15 Total

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are involved is debitable to

Denomination Budgettackers

Other Scientific Research (Maper Lorent

Others (Sub Major Head)

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Research and Desclopment

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ad had 16 17 18 Grant for creation of Capital assets 2013-16 (Plan-

The amount of Rs. 39.25 likhs (Rupees Thirty Nine Lalds and Twenty Five Timexand only) will be drawn by the DDO. DBT from PAO, DBT and will be dishumed to the Registrate From the of Risbani, Srinngar, Janimu & Kashmur as pes details eiven below:

Name of the Bank

Janung & Kashulo Bank Limited

Buck A. & No

000070405000000057

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Michaloge

94498,440

- In case the singulationed amount for distinct ement made, this satisfied is not account in the late. training the of estac of the struction, you may animate the sact, with details of the 200 Date (see S. Sact) the Food Secretary and Lindowick Advisor at the e-mail address linearly alst diving granificing to a color of the the matter processforms a
- Non-recurring grant is to be utilized within 18 months of sunction.
- This is first release of the project so no UC/SE is pending with the project.
- As per rule 211(4) of GPR, the negionns of all grance Institutions shall be open to inspection in the saffetiveness and arity audit

Confd. 26

<u>C-II</u>

GOVERNMENT OF INDIA MINISTRY FOR SCIENCE & TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY

RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY THIRUVANANTHAPURAM 695014

An Autonomous National Institute for Discovery, Innovation & Translation in Biotechnology and Disease Biology

6242-P67/RGCB/PMD/DBT/MBUH/2015

July 29th 2015

ORDER

- In continuation to letter Number: DO.No.BT/Med/Pilot Project Cancer/2014 dated June 26th 2015, Rajiv Gandhi Centre for Biotechnology (RGCB) will function as the Project Management Group for the PILOT PROJECT GRANT FOR YOUNG INVESTIGATORS IN CANCER BIOLOGY being funded by the Department of Biotechnology, Government of India
- 2. Sanction is hereby accorded on instructions from the Department of Biotechnology, Government of India for the implementation of the project entitled: "Upregulation of Pyruvate Kinase M2 in human colorectal cancer: Role of post-transcriptional regulatory elements.",under PILOT PROJECT GRANT FOR YOUNG INVESTIGATORS IN CANCER BIOLOGY at a total cost of Rs. 25,50,000/- (Rupees Twenty Five Lakhs Fifty Thousand Only) on the terms & conditions explained in Office Memorandum No: BT/Z/2015-IFD dated14th July, 2015 from the Department of Biotechnology, Government of India and the following conditions detailed below.
- 3. Title of the Project: "UPREGULATION OF PYRUVATE KINASE M2 IN HUMAN COLORECTAL CANCER: ROLE OF POST-TRANSCRIPTIONAL REGULATORY ELEMENTS

PRINCIPAL INVESTIGATOR: MAHBOOB UL HUSSAIN, (mahboob@kashmiruniversity.ac.in)
The University of Kashmir, Department of Biotechnology, Ground floor, Science Block,
University Campus, Hazratbal, Srinagar, Kashmir (J&K)-190006
Telephone: 09797291711, Fax: 0194-2428723

CO-INVESTIGATOR I: DR SYED MUDASIR.. (syed mudassar@skims.ac.in
Department of Clinical Biochemistry, Sheri-Kashmir Institute of Medical Science (SKIMS),
Soura, Srinagar, Kashmir (J&K)-190011
Telephone: +91-9419016201

4. Objectives

- Expression analysis of PKM in colorectal cancer samples
- Analysing the 5'-UTR of PKM2 mRNA for mediating cap-independent translation
- Expression analysis ofheterogeneous nuclear ribonucleoprotein (hnRNPA1), also known as polypyrimidine tract binding protein (PTB) in normal and cancerous samples
- Role of polypyrimidine tract binding protein (PTB) in mediating cap-independent translation of PKM2.
- Expression analysis of various microRNAs (miR-133a, miR-133b, miR-326, etc.) in human colorectal cancer samples and their adjacent normal and their correlation with PKM2 expression

No. BT/PR11394/PBD/16/1077/2014

GOVERNMENT OF INDIA

LAND DEPARTMENT OF BIOTECHNO.

No. BT/PR11394/PBD/16/1077/2014

GOVERNMENT OF INDIA

DEPARTMENT OF BIOTECHNO. whether the sound RPE second

Block 2, (6-8th Floors CGO Complex, Lodhi Road New Delhi- 110 00

Date:

RELEASE ORDER

In continuation of this Department's sanction order of even number dated Feb 10, 2015 sanction the President is hereby accorded, under Rule18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. 1535000.00 (Rupees Fifteen Lakhs Thirty Five Thousand Only) being the first yea release for the project entitled "Characterization and conservation of Apricot (Prunus armeniaca L.) germplasm in Jammu and Kashmir State", being implemented by

- Dr. Aijaz Ahmad Wani, University of Kashmir, Department of Botany, University of Kashmir, Srinagar 190006,
- Dr. Faizan Ahmad, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Subject Matter Specialist, KVK, SKUAST K Kargil Ladakh 194103, J&K India, Srinagar - 190025, Jammu And Kashmir The detailed break-up is as given below:

SNo	Institute Name	Non R	ecurring	Total Release Amount (Rs)
	Target and the second	Equipment	Other	
	Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir	290000.00	0.00	290000.00
	The funds under Non-recurring hearelease.	ad should be utiliz	zed within 18 mor	ths from the date of
2	University of Kashmir	1245000.00	, 0.00	1245000.00
	The funds under Non-recurring hear release.	ad should be utiliz	zed within 18 mor	ths from the date of

- 2. The amount of Rs. 1535000.00 /-(Rupees Fifteen Lakhs Thirty Five Thousand Only) will be drawn by the Drawing & Disbursing Officer, DBT, from the Pay & Accounts Officer, DBT, and disbursthrough RTGS as per following details:
 - 1 Rs.1245000.00/- (Rupees Twelve Lakhs Fourty Five Thousand Only) to The Registrar, University of Kashn Hazratbal, Srinagar - 190006, Jammu And Kashmir

Bank Name : Jammu and Kashmir Bank

Branch Name: University Campus, Naseem Bagh, Hazratbal

A/c No. : 0007040500000057 IFSC Code : JAKAONASEEM

MICR Code : 190051042

2. Rs.290000.00/- (Rupees Two Lakhs Ninety Thousand Only) to The Comptroller, Sher-e-Kashmir University Agricultural Sciences and Technology of Kashmir, Shalimar, Srinagar - 191121, Jammu And Kashmir

Bank Name : Jammu and Kashmir Bank

Branch Name: SKUAST K Shalimar Campus

A/c No. : 0242040500004451

IFSC Code : JAKAOSKUAST MICR Code : 190051064

3. The expenditure involved is debitable to:

Page No. [1 / 3]

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File No. DST/CCP/PR-18/2012 (G) Government of India Ministry of Science & Technology Department of Science & Technology

Technology Bhavan New Mehrauli Road New Delhi 110016

ORDER

Sub: Financial support and release of 1" instalment for project proposal entitled "The Himalayan Cryosphere: Science and Society - Inter-University Consortium" by Jawaharlal Nehru University, New Delhi

Name of the Project Coordinator : Prof Bharat H Desai, SIS, INU

Principal Investigator:
Pl-1: Dr. Milap Chand Sharma, Associate Professor, JNU
Pl-2: Prof. R.K Ganjoo, Professor, University of Jammu
Pl-3: Prof. Shakil Romshoo, Professor, University of Kashmir
Pl-4: Dr Uttam Lal, Assistant Professor, Sikkim University

Sanction of the President is hereby accorded for the amount of ₹ 18,02,04,000/- only (₹ Eighteen Crore Two Lakh four Thousnad only) with break-up of ₹4,11,58,000/- (₹ Four crore Eleven Lakh Fifty Eight Thousnad only) under General head and of ₹ 13,90,46,000/- (₹ Thirteen Crore Ninty Lakh forty six Thousnad only) under Capital head for carrying out project proposal entitled "The Himalayan Cryosphere: Science and Society - Inter-University Consortium" by Inter-University Consortium 'of INU, University of Jammu, University of Kashmir and Sikkim University. The duration of the project is for 5 years.

The year-wise budget break-up for the sanctioned amount is as follows

Γ.	Item			Budget			Total
-		1" Year	2° Yr	3" Yr	4ª Yr	5° Yr	
Ā.	Recurring	1			ļ		
1	Salaries/wages	\$280000	5280000	5568000	5568000	5568000	27264000
2	Field Measurement and Exploration	1600000	1600000	1600000	1600000	1600000	8000000
4	3. Travel other than field	400000	400000	400000	400000	400000	2000080
Б	Review Meetings of IUCCC at JNU	50000	50000	50000	50000	NJL	200000
Б	5. Chemicals for lab	200000	NIL	HIL	NIL	NIL	200000
·	6.Contingency	300000	300000	300000	000000	294000	1494000
7	Overhead (Each Univ. 1.00 Lakh per year)	400000	400000	400000	400000	400000	2000000
₿,	Equipment	139046000	NIL	NIL	ИIL	NIL	139046000
	Grand Total (A+B).	147276000	8030000	8318000	8318000	8268000	180204000

Table 1C: The details of the proposed budget for University of Kashmir are as follows;

	liem			Budget			(Rupres
_		l" Year	2 rd Year	3'd Year	4" Year	5" Year	Total
A.	Recurring		K.96				1
	Supries/wages 2-RA @23000 3- JRF/SRF	552000 576000	552000	552000 648600	552000 648000	552000 648000	276000
-	<u> </u>		<i>7</i> .				
	@16000 / 18000 2 P. Assts@ 8000	192000	192000	192000	192,000	192000	- 960000
	2.Field Measurement and Exploration	400000	400000	- 400000	400000	400000	2000000
	3. Travel other than field	100000	100000	100000	100000	100000	500000
ĺ	5. Chemicals for Lab	60000	NIL	NIL	NIL	NIL	. 60000
1	Contingency	75000	75000	75000	75000	75000	375000
	Inst Overhead	100000	100000	100000	100000	100000	508000
В	Equipment	72766000	NIL	NIL	NIL	NIL	72760000
1	Grand Total (A+B)	74821000	1995000	2067000	2067000	2067000	83917000

TO PROPERTY

CILL

MoES/P.O.(Seismo)/1(152)/2012 Government of India Ministry of Earth Sciences

Prithvi Bhawan, Lodhi Road, New Delhi-110003 27.01.2014

ORDER

Project: Seismic hazard assessment in the Kashmir Himalaya using geological, seismological and geodetic data.

PI: Prof. Mrinal K. Sen, Director, National Geophysical Research Institute, Uppal Road, Hyderabad-500007.

PI: Prof. G.M. Bhat, Dept. of Geology, University of Jammu, Jammu-180006.

PI: Dr. Bikram Singh Bali, Dept. of Earth Science, University of Kashmir, Srinagar-190006.

Sanction of the President is hereby conveyed for the above mentioned project at a total cost of ₹17,48,52,600/-(Rupees seventeen crores forty eight lakhs fifty two thousand and six hundred only), for a period of three years. The items of expenditure for which the total allocation of ₹17,48,52,600/-has been approved are given below:

NGRI Component

	***************************************		Revised Bud	get in Rupees			,
	Item	1st Year	2 nd Year	3 rd Year	4th Year	5 th Year	Total
A	Recurring						
î a	Research Associate (One), @ Rs. 22,000/- and 30% HRA for reaming years	3,42,200/-	3, 12,200/-	3,42,200/-	3,42,200/-	3,42,200/-	17,11,000/-
b	JRF (Five), @ Rs. 16,000/- +30% HRA for first and second year and Rs. 18,000/- +30% HRA for reaming years	12,48,000/-	12,48,000/-	14,04,000/-	14,04,000/-	14,04,000/-	67,08,000/-
c.	Project Asstt. (Three) @ Rs. 10,000/- p.m (fixed)	3,60,000/-	3,60,000/-	3,60,000/-	3,60,000/-	3,60,000/-	18,00,000/-
1	Consumables a. Computer peripherals, storage devices, standards and chemicals, CDs, DVDs, stationery, maps, satellite images, general	2,00,000/-	1,50,000/-	1,50,000/-	1,50,000/-	1,50,000/-	8,00,000/-

Jammu University Component

		F	Revised Budget	in Rupees			
	Item	1st Year	2 nd Year	3 rd Year	4 th Year	5 th Year	Total
Α	Recurring						
i a	Salary JRF (Two)@ Rs. 16,000/- +20% HRA for first and second year and Rs. 18,000/- +20% HRA	4,60,800/-	4,60,800/-	5,18,400/-	5,18,400/-	5,18,400/-	24,76,800/-
b	Project Assist. (One), @ Rs. 10,000/-	1,20,000/-	1,20,000/-	1,20,000/-	1,20,000/-	1,20,000/-	6,00,000/-
ii	Consumables	1,00,000/-	1,00,000/-	1,00,000/-	1,00,000/-	1,00,000/-	5,00,000/-
iii	Travel Travel, Field work, fuel, vehicle hire, transportation of instruments, contingency	2,00,000/-	1,50,000/-	1,50,000/-	1,00,000/-	1,00,000/-	7,00,000/-
iv	Other Costs/contingency watch-ward for 20 sites (BB +GPS+SMA) @ 5000 pm		11,00,000/-	11,00,000/-	11,00,000/-	11,00,000/-	44,00,000/-
	Total A	8,80,800/-	19,30,800/-	19,88,400/-	19,38,400	19,38,400/-	86,76,800/-
В	Equipment			11	11 - 3	1 - 1 - 1 - 1 - 2	,
a	GPR	60,00,000/-					60,00,000/~
	Total B	60,00,000/-	****				60,00,000/-
C	Overhead	1,00,000/-	1,00,000/-	1,00,000/-	1,00,000/-	1,00,000/-	5,00,000/-
	Grand Total A+B+C	69,80,800/-	20,30,800/-	20,88,400/-	20,38,400/-	20,38,400/-	1,51,76,800/-

Kashmir University Component

			Revised Budg	get in Rupees			
	Item	1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year	Total
A	Recurring						
i a	Salary JRF (Two)@ Rs. 16,000/- +20% HRA for first and second year and Rs. 18,000/- +20% HRA	4,60,800/-	4,60,800/-	5,18,400/-	5,18,400/-	5,18,400/-	24,76,800/-
b	Project Assist. (One), @ Rs. 10,000/-	1,20,000/-	1,20,000/-	1,20,000/-	1,20,000/-	1,20,000/-	6,00,000/-
ii	Consumables	1,00,000/-	1,00,000/-	1,00,000/-	1,00,000/-	1,00,000/-	5,00,000/-
iii	Travel	2,00,000/-	1,50,000/-	1,50,000/-	1,00,000/-	1,00,000/-	7,00,000/-
iy	Other Costs						

4. The expenditure may be booked under the following head:

3425 - Other Scientific Research (Major Head)
60 - Others (Sub-Major Head)
60.200 - R&D in other scientific fields (Minor Head)
49 - Seismological Research (Sub-Head)
49.00.31 - Grants-in-aid for the year 2013-14 (Plan expenditure)

- 5. Sanction of the grant is subject to the conditions as detailed in the enclosed Guidelines for Implementing Research Project.
- 6. Overhead expenses are meant for the host institute towards the cost for providing infrastructural facilities and benefits to the staff employed in the project, etc.
- 7. The provisions of GFR 211(1) relating to U.C.'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.
- 8. As per rule 212(1) of GFRs, the account of the Grantee institution shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
- 9. It is desirable to have MoES nominee in the selection process for recruitment of JRF/SRF/RAs/scientists in the project.
- 10. The position of project staff is co-terminus with the duration of the project & MoES would have no liability towards such manpower costs beyond the duration of the project.
- 11. The assets acquired wholly or substantially out of government grants by the implementing agencies will not be disposed off without obtaining the prior approval of MoES.
- 12. Data acquired under the project needs to be sent to Ministry regularly and it should not be shared with any private agency/foreigner, without prior approval of MoES.
- 13. Project may be implemented as per the guidelines of MoES (copy attached)
- 14. All the future correspondence regarding the project may be addressed to Advisor & Head, Geosciences/ Seismology Division.
- 15. This order has been noted at serial No.43, page no.07 of ECR for the year 2013-14.
- 16. The equipments shall be transferred to NCS after completion of the project.
- 17. Data would be made available to INCOIS/IMD in real-time.
- 18. This issues under the powers delegated to this Ministry and with the concurrence of IF Division of MoES, vide Dy. No. 1322 dated 15-01-2014 and approval of Secretary, MoES vide Dy. No. 802/Secy/13 dated 12-12-2013.

(Sandesh Saxena)

Under Secretary to Govt. of India

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the remarks That any

No. BT/PR8979/NDB/39/303/2013 GOVERNMENT OF INDIA and of Rs 867600 Laministry of Science & TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY

beau Credited to RPE, He llinguage frampfor on 19/12/15.

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Block 2, (6-8th Floors) CGO Complex, Lodhi Road, New Delhi- 110 003

Date:

In continuation of this legislithant's sanction order of even number dated Dec 14, 2015 sanction of the President is heaping accorded, under Rule18 of the Delegation of Financial Powers Rule, 1978, for the release or Rs. 867,600.00 (Rupees Eight Lakhs Sixty Seven Thousand Six Hundred Only) being the first year reached the the project entitled "SEARCH FOR NOVEL ANTICANCER BIOACTIVES FROM THE KASHMIR HIMALAYAN MUSHROOMS", being implemented by

Or, Manzoor Ahrnad Shah, University of Kashmir, Department of Botany University of Kashmu, Shnagar - 190006, Jammu And Kashmir

The defined break up is as given below:

られら							Total Release Amount (Rs)	
		Manpower	Consumable	Travel	Contingency	Others	Overhead	
	Catheraty of Naster of	456000.00	200000 00	50000.00	50000.00	0.00	111600.00	867660.C0
	W - THE SQUARE PLANE BY AMERICAN MANAGEMENT		***************************************					

2. The arreant of Rs. 867600.00 /-(Rupees Eight Lakhs Sixty Seven Thousand Six Hundred Only) will be drawn by the Drawing & Disbursing Officer, DBT, from the Pay & Accounts Officer, DBT, and disbarded Pricagn RTGS as per following details:

The Registral University of Kashmir, Hazratbar, Smagar - 190006, Jammu And Kashmir

Balan Maide

Jammu and Kashmir Bank Ltd

Branch Name University Campus, Hazratbar

Arc No.

00070405000000057

IFSC Code

JAKAONASEEM

MICH Code

190001042

3. The expenditure involved is debitable to:

Demand No. 88 Department of Biotechnology		
3425	Other Scientific Research 2015-2016	
3425.60	Omers (Sub Major Head)	
3425.60.200	Assistance to other Scientific Bodies (Minor Head)	
3425.60.200.29	Assistance for Research & Development	
3425.60.200.29.17	Assistance for Research & Development	
3425.60.200.29.17.31	Gradis of Ald General	

- 4. The Registran University of Kasminic, Shinagan, Jaminio And Kashmir will submit audited utilization certificates and statements of experiditure in respect of the above-mentioned amount.
- 5. The Accounts of grantee inscitution shall be open to inspection by the sanctioning authority/audit whenever the institute is called upon to do so by the sanctioning authority.

No. BT/PR16348/BPA/118/174/2016

GOVERNMENT OF INDIA

MINISTRY OF SCIENCE & TECHNOLOGY

DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors CGO Complex, Lodhi Road, New Delhi- 110 003 Dated: 11/12/2017

ORDER

tion of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers ; ,1978, for the implementation of the project entitled: "Creating a Genomics platform Apple research in India - Phase II" for a period of 3 Year 0 Month at a total cost of Rs. 20400 (Rupees One Crores Ninety Eight Lakhs Twenty Thousand Four Hundred Only) on the s and conditions detailed here under:-

Project:

Title: "Creating a Genomics platform for Apple research in India - Phase II"

Details of the Investigatiors:

Project Cordinator

Dr. Ramesh K Aggarwal

Chief Scientist
Molecular Genetics Lab
Centre For Cellular And Molecular Biology
Uppal Road, Tarnaka,
Hyderabad- 500007 Andhra Pradesh

Principal Investigators:

Dr. Ramesh K Aggarwal

Chief Scientist
Molecular Genetics Lab
Centre For Cellular And Molecular Biology
Jppal Road, Tarnaka,
Hyderabad-500007,Andhra Pradesh

Dr. Aijaz Ahmad Wani

Associate Professor
Department of Botany
University of Kashmir, Hazratbal,
Srinagar- 190006 Jammu & Kashmir

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FD Dia y No.2685 Dated- 31-08-2016

UNIVERSITY GRANTS COMMISSION **BAHADUR SHAH ZAFAR MARG NEW DELHI-110 002**

No.F. 194-1/2016(IC)

The Under Secretary (FD-III) University Grants Commission Bahadur Shah Zafar Marg New Dethi-110 002

Subject:

Release of Grants-in-aid to University of Kashmir, Hazratball, Srinagar - 190006 for the year 2016-

2017 under plan.

Sir.

I am directed to convey the sanction of the University Grants Commission for payment of grant of Rs.47,17,500/-(Rupees Forty Seven Lacs Seventeen Thousand Five Hundred only) to University of Kashmir, Hazratbal, Srinagar - 190006, as first installment for the joint project entitled *Proactive Management models for the effects of climate change on the range expansion of invasive species" between University of Kashmir, Hazratbal, Srinagar - 190006 and Montana Tech, Butte, USA under Indo-US 21st Century Knowledge Initiative Programme for the year 2016-2019 and expenditure to be incurred during 2016-17.

SI. NO.	kems	Allocated amount	Head of account	Grant now being release	Total grant
A)	PROGRAM EXPENSES:				
	international Travel	3300000		900000	900000
8	m-Country *fravel Overseas	1260000		420000	420000
Ü	ta-Country Travel in India	1170000		390000	390000
٥	local transportation	225000		75000	75000
j	Lodging meals, and incidental expenses	1365000		455000	455000
ė	Educational Material/Electronic Equipment Communication	1140000	4(iii)	1140000	1140000
f	Faculty Development Stipends for US teachers or researchers [see Tab D, Section 1 (fr) List names or positions and the total number of days (or each.)	585000	7(11)	195000	195000
	Project Coordination Stipends for US participants [see Tab D, Section 1 (g)]	900000		300000	300000
ĥ	interpretation Fees (not to exceed 5% of total grant request)			0	Ô
	Visa Charges				
	Visitor visa Fees for US Participants	125000		0	0
:	J-1vsa Fees for Indian Participants	195000		97500	97500
	Fees for cutside consultants reporting on the project [maximum \$300/ Rs.15000: per day, maximum 5% of total grant request.]			Ĵ	0
	Other Contributions* cost share only	40005000		3070500	3070500
B)	ADMINISTRATIVE EXPENSES:	10265000	!	3972500	3972500
Dj	andian Participant Salary Replacement Costs as specified under Tab D.	000000		200000	200000
	Section 1.1a) [Faculty replacement and/or graduate student stipends] List names or positions and the total number of days for each [900000	1	300000	300000
	Other Direct Administrative Costs [as defined under allowable costs, Section 2, 172], not to exceed 20% of total grant request[]. Include	0	•	0	0
	- Administrative salanes	360000		120000	120000
	- Communications	225000	•	75000	Marine Constitution of the
	- Supplies	45000D	•	150000	150000
. m.	Indirect Administrative Costs to the Indian grantee institution [not to exceed 5 -6% of total grant request]	300000	•	100000	100000
	Other Contributions' cost share only				er i samma a sama a
	Total (B)	2235000	7	745000	745000
	Grand Total (A+B)	12500000	• •	4717500	4717500
	The second secon		d		·



- The sanctioned amount is debitable to under the head of account 4(iii) and is valid for payment during the financial year 2016-2017 only.
- The amount of the Grant shall be drawn by the EO (DDO) UGC on the Grants-in-aid bill and shall be disbursed to and credited to the University of Kashmir, Hazratbal, Srinagar 190006 through Electronic mode as per the following details:

a	Details (Name & Address) of Account Holder	Registrar, University of Kashmir, Hazratbal, Srinagar – 190 006
; b	Account No.	0007010100001451
C	Name & address of Bank branch	Jammu and Kashmir Bank limited University Campus, Hazratbal, Srinagar
d	MICR Code	190051042
e	IFSC Code	JAKA0NASEEM
f	Type of Account	Current

4 The Grant is Subject to the adjustment on the basis of Utilization Certificate in the submitted by the University/Institution.

prescribed proforma

- 5 The University / Institution shall maintain proper accounts of the expenditure out of the Grants which shall be utilized only on the approved items of expenditure.
- The University / Institution may follow the General Financial Rules, 2005 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2005 and those don't have their own approved manuals on financial procedures may adopt the provisions of GFRs, 2005 and instructions/guideline there under from time to time.
- 7 The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to UGC as early as possible after the close of current financial year.
- 8 The assets acquired wholly for substantially out of University Grants Commission's Grant shall not be disposed or encumbered or utilised for the purposes other than those for which the grants was given without proper sanction of the UGC and should at any time the University ceased to function, such assets shall revert to the University Grants Commission.
- 9 A Register of Assets acquired wholly or substantially out of the grant shall be maintained by the University in the prescribed proforma.
- 10 The grantee institution shall ensure the utilization of grants-in-aid for which it is being sanctioned / paid. In case of non-utilization/part utilization thereof, simple interest @ 10% per annum, as amended from time to time on the unutilized amount from the date of drawal to the date of refund as per provisions contained in General Financial Rules of Govt. of India, will be charged.
- 11 The University / Institution shall follow strictly the Government of India / UGC's guidelines regarding implementation of the reservation policy [both vertical (for SC, ST & OBC) and horizontal (for persons with disability etc.)] in teaching and non-teaching posts.
- 12 The University / Institution shall fully implement the Official Language Policy of Union Government and comply with the Official Language Act, 1963 and Official Languages (Use for Official Purposes of the Union) Rules, 1976 etc.
- 13 The sanction is issued in exercise of the delegation of powers vide UGC Order No. 69/2014 [F.No. 10-11/12 (Admn. IA & B)] dated 26-3-2014.

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- The University /Institution shall strictly follow the UGC Regulations on curbing the menace of Ragging Higher Education Institutions, 2009.
- TyThe University / Institution shall take immediate action for its accreditation by National Assessment & Accreditation Council (NAAC).
- 16 The accounts of the University / Institution will be open for audit by the Comptroller & Auditor General of India in accordance with the provisions of General Financial Rules, 2005.
- 17 The annual accounts i.e. balance sheet, income and expenditure statement and statement of receipts and payments are to be prepared strictly in accordance with the Uniform Format of Accounting prescribed by Government.
- 18 This issues with the concurrence of IFD vide Diary No.2469 (IFD) dated 04-08-2016.
- 19 This issues with the approval of Secretary, UGC vide Diary No.61416 dated 16-08-2016.

ours faithfully,

(Mriganka Sekhar Sarma) Education Officer

Copy forwarded for information and necessary action for:-

- 1. The Registrar, University of Kashmir, Hazratbal, Srinagar 190006
- 2. **Dr. Manzoor A. Shah,** Sr. Assistant Professor, Department of Botany, University of Kashmir, Hazratbal, Srinagar 190006
- 3. Office of the Director General of Audit, Central Revenue, AGCR Building I.P. Estate, New Delhi 110002
- 4. Accountant General, Government of Jammu and Kashmir.

Guard File

(Dharam Vir Yadav) Section Officer

ì

8.No 18

DST/CCP/PR-18/12

Government of India Ministry of Science & Technology Department of Science & Technology (SPLICE- Climate Change Programme)

> Technology Bhavan, New Delhi Dated, the 14.11.2018

Order

Sub: Financial assistance to the project titled "Himalayan Cryosphere: Science and Society" under the National Mission for Sustaining Himalayan Ecosystem (NMSHE) being implemented jointly by Jawaharlal Nehru University, Jammu University, University of Kashmir and Sikkim University – Approval no cost extension of the project for another six months till 31.03.2019.

In reference to this Department's sanction letter no. DST/CCP/PR-18/12 (G) dated 07.03.2013, competent authority has accorded the no cost extension of the project for a period of another six months till 31.03.2019 without any additional cost.

(Rabindra K Panigrahy) Sc.-C/Ph. 26590441

To, PAO, DST, New Delhi

Copy forwarded for information and necessary action to:

- 1. The Director of Audit (CW and M-II), Indraprastha Estate, AGCR Building, New Delhi
- 2. Cash section (3 copies).
- 3. Sanction folder, Climate Change Programme (CCP)
- 4. Head, SPLICE
- 5. Prof. Bharat Desai, SIS, JNU, New Delhi
- 6. Dr. Milap Chand Sharma, Professor, JNU, New Delhi
- 7. Prof. Pankaj K Srivastava, Professor, University of Jammu
- 8. Prof. Shakil Romshoo, Professor, University of Kashmir
- 9. Dr Uttam Lal, Assistant Professor, Sikkim University

CIB

File No. DST/CCP/PR-18/2012 (C) Government of India Ministry of Science & Technology Department of Science & Technology

Technology Bhavan New Mehrauli Road New Delhi 110016 Dated 07 -03-2013

ORDER

Sub: Financial support and release of 1st instalment for project proposal entitled "The Himalayan Cryosphere: Science and Society – Inter-University Consortium" by Jawaharlal Nehru University, New Delhi

Name of the Project Coordinator: Prof Bharat H Desai, SIS, JNU

Principal Investigator:

PI-1: Dr. Milap Chand Sharma, Associate Professor, JNU
PI-2: Prof. R.K Ganjoo, Professor, University of Jammu
PI-3: Prof. Shakil Romshoo, Professor, University of Kashmir
PI-4: Dr Uttam Lal, Assistant Professor, Sikkim University

With reference to the Sanction Order No DST/CCP/ PR-18/2012 (G) dated 07-03-2013, sanction of the President is hereby accorded for the amount of ₹12,20,00,000/- only (₹ Twelve Crore Twenty lakh only) under creation of capital asset budget head for carrying out project proposal entitled "The Himalayan Cryosphere: Science and Society – Inter-University Consortium" by Inter-University Consortium of JNU, University of Jammu, University of Kashmir and Sikkim University.

2. The budget break-up for the sanctioned amount is as follows

S.L	Heads/ Equipment	1st Year	2nd year	3rd Year	Total
1	JNU	27760000	- 1 -		27760000
2	University of Jammu	33260000			33260000
3	University of Kahsmir	55720000	17046000		72766000
4	Sikkim Unversity	5260000			5260000
	Grand Total	12,20,00,000	17046000		13,90,46,000

- 3. The sanction of the President is also conveyed to the payment of ₹12,20,00,000/- only (₹ Twelve Crore Twenty Lakhs only) under creation of capital asset budget head to Inter university consortium being the first instalment of grant for the year 2012-13 for implementation of the said research project. The details for break-up of first release is as follows
 - JNU : `2,77.60,000/- under creation of capital asset budget head
 - Univ. of Jammu: `3,32,60,000/- under creation of capital asset budget head
 - Kashmir University: `5,57,20,000/- under creation of capital asset budget head
 - Sikkim University: `52,60,000/- under creation of capital asset budget head

11. It has been entered at S. No. 56 in the Register of Grant (2012-2013). Rajesh Kumar Scientist "D" To, PAO, DST, New Delhi Copy forwarded for information and necessary action to: 1. The Director of Audit (CW and M-II), Indraprastha Estate, AGCR Building, New Delhi 2. Copy with a spare copy of sanction of the Drawing and Disbursing Officer, DST, Cash section for making necessary payment to Grantee. 3. Integrated Finance Division (IFD), DST, New Delhi

- 4. Accounts Section, DST, New Delhi
- 5. Head & Advisor, Climate Change Programme (CCP), DST
- 6. Sanction folder, climate change Programme (CCP)
- 7. Vice Chancellor, JNU, New delhi
- 8. Vice Chancellor, University of Jammu, Jammu
- 9. Vice Chancellor, University of Kashmir, Srinagar
- 10. Vice Chancellaor, Sikkim University, Gangtok
- 11. Dr. Milap Chand Sharma, Associate Professor, JNU
- 12. Prof. R.K Ganjoo, Professor, University of Jammu
- 13. Prof. Shakil Romshoo, Professor, University of Kashmir

14. Dr Uttam Lal, Assistant Professor, Sikkim University

Rajesh Kumar Scientist "D"

8.NO.19



"NATIONAL MISSION ON HIMALAYAN STUDIES"

Speed post/E. Mail

G.B. Pant National Institute of Himalayan Environment and Sustainable Development (GBPNIHESD)

Kosi-Katarmal, Almora - 263643, Uttarakhand, India

Ref. No.: NMHS-2017-18/MG-02/478

Date: 22-12-2017

To,

Prof. Shakil Ahmad Romshoo Department of Earth Science University of Kashmir Hazratbal, Srinagar-190006, J&K

Subject: Approval of the Medium Grant (MG) for the project entitled "Integrated System dynamical model to design and Testing Alternative intervention strategies for Effective Remediation & Sustainable water Management for two selected river basins of Indian Himalaya"

Sir,

I am directed to convey the approval of the Competent Authority for the above-mentioned project at a total cost of Rs. 2,47,15,680/- (Rupees Two crore forty seven lakh fifteen thousand six hundred eighty only) for a period of three years, as per the break-up given below:

Expenditure Head	1 st year (in Rs.)	2 nd year (in Rs.)	3 rd year (in Rs.)	Total (in Rs.)
A. Recurring				
(i) Salary:- 04 JPF @ Rs.16,000/- + HRA @ 8% or Minimum Rs.1,800/- per month for first two years and @ Rs.18,000/- + HRA @ 8% or Minimum Rs.1,800/- per	2464800.00	2464800.00	2686080.00	7615680.00
month for 3 rd year, 03 JRF @ Rs.25,000/- + HRA @ 16% per month				
for first two years and Rs.28,000/- + HRA @ 16% for 3 rd years, 04 Field Assistant/ Technical Assistant @ Rs.10,000/- + HRA @ 8% or Minimum				
Rs.1,800/- per month for three years			1-24	
(ii) Travel (Domestic):	400000.00	500000.00	400000.00	1300000.00
(iii) Expendables/Consumables:	600000.00	700000.00	600000.00	1900000.00
(iv) Contingency:	400000.00	400000.00	500000.00	1300000.00
(v) Activity & Other Project Cost: Data: IMD, satellite data, hyper spectral images, Lab analysis (soils and water quality), Capacity and awareness	1500000.00	1400000.00	1400000.00	4300000.00
(vi) Institutional/ Overhead charges	Nil	Nil	500000.00	500000.00
B. Non Recurring				



(i) Equipments: Network attached storage of 500 TB, Software for SDM, GIS up gradation- 4 Nos, Workstation- 4 nos, Desktop -01 nos, Laptop- 01 nos, Rain Gauges along with calibrator gauge- 12 nos, Pressure based AWLR with barometric compensators-2 nos, Double ring infiltrometer- 3 nos, 10 m ET- A W S (automatic weather station)-2 nos, Handheld temperature and RH sensor- 2 nos, Handheld temperature and RH	7800000.00	Nil	Nil	7800000.00
sensor-2 nos, Portable air quality sensor (SPM sensors) and up gradation and maintenance of existing hydro met network in Kosi and Upper Jhelum basin				
Total (A+B):	13164800.00	5464800.00	6086080.00	24715680.00

2. The approval of the project is subject to incorporation of following points:

- The study should use **suitable existing models** (used by NITI Aayog or others) for water resource planning in terms of drinking water supply, irrigation water supply, etc. for two watersheds.
- There should be a **peer-review** of the findings and models in collaboration with an established knowledge centre before it is recommended to line agencies.
- PI should also consult ICAR-Water Technology Centre for modeling expertise.
- The Periodic Progress Report of the NMHS Project needs to be submitted and updated on the Online
 Portal of the NMHS (http://nmhsportal.org) by the PI/ Project Proponent on Quarterly basis
 consistently. Monitoring indicators for the project should be able to quantify the difference made on
 ground.
- Certificates should be provided that this work is not the repeat of earlier work (as a mandatory exercise).
- The roles and responsibilities of each implementing partners should be delineated properly with their budget. The budget allocations to partners should be done in accordance with the MOEF&CC guidelines (Max. 30% for salary, 30% for equipment and 5% contingency). The same should be communicated to NMHS-PMU, before start of project.
- The PI must also submit **all the supporting data generated** under the NMHS Project along with the quarterly progress report to NMHS-PMU.
- On completion of the study, a Seminar/ Conference/ Workshop should essentially be organized by the PI/ Proponent to discuss and disseminate the findings among the experts and concerned stakeholders.
- 3. The project objectives, quantifiable deliverables and monitoring indicators will be as below:

Project Objectives	Quantifiable Deliverables	Monitoring Indicators
 Development, Testing and validation of a System Dynamics Model of the Upper Jhelum and Kosi Basins; Projection of water budget, forest and agro-ecosystem under different 	System Dynamical models (by integrating water budget, Crop models, socio- economic models, WRF-land- canopy model and etc.) for 2 Himalayan watersheds for effective remediation &	Monitoring in comparison to the baseline information to be provided by proponent: No. of System Dynamics Models tested/ customized for the Himalayan watersheds; No. of high resolution climate scenarios developed based on the

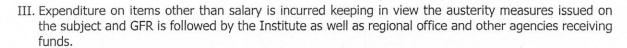
- LVN
- environmental and social scenarios;
- Assessment of the outcome of alternate policy and technological interventions for conservation of river and associated ecosystems;
- Capacity and awareness building of stake holder for enhanced decision making on water management.
- sustainable water management;
- Developing reliable high resolution past climate and future climate scenarios for the two river basins over Indian Himalaya;
- Developing a decision support system by integrating SDM on GIS platform.

- past database/sets;
- No. of high-resolution future scenario prediction/ visualization based on the data dynamics analysis;
- Outputs of Decision-support System developed, integrating SDM on GIS platform;
- No. of Policy Guidelines and Legislative Mechanisms: Prepared and/ or Communicated;
- Publications and knowledge products (Nos.).
- 4. Sanction of the Competent Authority is also hereby conveyed for the release of Rs. 1,31,64,800/-(Rupees One crore thirty one lakh sixty four thousand eighty hundred only) towards Grants-in-Aid to Registrar, University of Kashmir, Srinagar-190006, J&K for the above NMHS MG project for the financial year 2017-18 Plan/recurring being 1st installment of grants as per break-up below mentioned.

Expenditure Head	Amount (In Rs.)		
A. Recurring (as Above)			
(i) Salary	2464800.00		
(ii) Travel	400000.00 600000.00 400000.00 1500000.00		
(iii) Consumables/Expendables			
(iv)Contingency			
(v) Activities & Other Project Cost			
(vi)Institutional/ Overhead charges	Nil		
B. Non Recurring			
(i) Equipment (as Above)	7800000.00		
Total (In Rs.)	13164800.00		

- 5. The Grants-in-Aid will be regulated in accordance with the provisions contained in the guidelines of the Ministry of Environment, Forest & Climate Change, New Delhi. The Grants-in-aid is also subject to chapter 9 of the General Financial Rules, 2005, as amended from time to time, read with Government of India's decisions incorporated there under and any other guidelines which may be issued in this regard, and in particular to the following conditions:-
- I. Separate ledger is maintained for the purchasing of equipments as per the provision of GFRs.
- II. Engagement of staff as per the provision of GFRs and MoEF&CC guidelines given in **Appendix A**. The emoluments for the retired persons hired for the project should not exceed **Rs. 30,000/-consolidated (fixed) per month** as stipulated in the MoEF&CC guidelines.

CIN



- IV. All account maintained by the concerned Organization will be subject to audit by the C&AG or internal auditors. On termination of the project, statements of accounts duly certified by the Competent Authority of the Organization shall be submitted and the unspent balance, if any, in the funds sanctioned will be refunded to the G. B. Pant National Institute of Himalayan Environment and Sustainable Development, Kosi, Katarmal, Almora, Uttarakhand.
- V. No cash payment is made exceeding Rs. 20,000/- to anybody for any expenditure. The taxes and dues are recovered and deposited in Government Account as per law.
- VI. 2nd installment will be considered only after the expenditure of 80% of the first installment release and on receipts of UC as per GFR format along with the Statement of Expenditure (item-wise) and signed by the Competent Authority. The UC shall also be verified and signed by Chartered Accountant/Finance Officer along with cash flow statement.
- VII. The UC shall be submitted along with up to date physical progress report (annual/ half yearly) indicating progress made against each objective and quantifiable deliverables, both online and offline, certified by the authorized person, along with data, photographs/satellite pictures, etc.
- VIII. Assets acquired wholly or substantially out of Government grants shall not be disposed of without obtaining the prior approval of the sanctioning authority of Grants-in-aid and separate sheet should be enclosed with details of Assets with cost.
- IX. The accounts of concerned Organization shall be audited by C&AG or by any person/agency authorized by it on its behalf in accordance with the provisions laid down in section 14 of the C&AG (DPC) Act, 1971 as amended from time to time.
- X. The internal audit party of the Principal Accounts Office of the Ministry or Department may also inspect the accounts whenever it is called upon to do so.
- XI. Grants-in-aid will be spent exclusively in pursuance of the objectives for the project entitled "Integrated System dynamical model to design and Testing Alternative intervention strategies for Effective Remediation & Sustainable water Management for two selected river basins of Indian Himalaya" as given above and for the purpose it is being sanctioned.
- XII. Grants-in-aid is subject to the Economy Instruction issued from time to time by the Ministry of Finance or by the Competent Authority.
- XIII. The sanction of the grant is subject to the terms and conditions given in **Annexure-I** and signing of bond with NMHS-PMU in the prescribed format (**Appendix B**). Compliance of all conditions mentioned in the bond and **Annexure I** must be ensured.
- XIV. On the basis of the terms and conditions given in **Annexure-I**, action is being taken up for the drawal of the sanctioned amount of the first installment of the first year's grant during the financial year 2017-18.
- XV. The sanction of the grant is subject to the whole details with nature of work of this project under "NMHS" clearly mentioned in the website/knowledge products of the Grantee.
- XVI. A separate saving bank account is to be opened for NMHS Project as per the provision Direct Beneficiary Account (DBA) as laid out by the Govt. of India and also facilitate the audit of accounts.

The interest earned out of the NMHS project funds should be reported clarify in the utilization certificate.

- XVII. The Project commissioned under "National Mission Himalayan Studies-Medium Grant" would be for the **tenure of three years** *w.e.f.* **01.1.2018**. If the project proponent/ lead agency is able to produce the desired results after mid-term evaluation/ assessment in terms of measurable and quantifiable deliverables on the ground, the extension can be given for maximum up to 2 years.
- XVIII. The amount of **Rs. 1,31,64,800/- (Rupees One crore thirty one lakh sixty four thousand eighty hundred only)** will be drawn by the <u>Drawing and Disbursing officer, G.B. Pant National Institute of Himalayan Environment and Sustainable Development, Kosi-Katarmal, Almora (U.K) and disbursed to <u>Registrar, University of Kashmir, Srinagar-190006, J&K</u> through bank by ECS. The Grantee will open a new account in nationalized bank and send the following details to NMHS-PMU for release.</u>

Bank name Account no- FSC Code Account Holder -

- 6. The amount will be debited in the Major Head 3435.03.104.11.04.31 Grant-in-Aid-General-NMHS.
- 7. Please send your acceptance for the terms and conditions of this Sanction Letter so that above grant could be transferred to the Head of Implementing Agency through Bank transfer on designated account.
- 8. Please note that following documents must be submitted before the start of the project activities.
 - 1. Quotations for the equipments to be procured.
 - 2. Roles and responsibilities of the partners with the budget allocated to them.
 - 3. Fair copy of Bond duly signed by authorized person of grantee (Rs. 100 stamp paper)

Encl.: Annexure-I Appendix- A Appendix- B

Yours Sincerely,

(Er. Kireet Kumar)
Director In-Charge, GBPNIHESD and
Nodal Officer, NMHS-PMU

Copy to:

1. Registrar, University of Kashmir, Hazratbal, Srinagar-190006, J&K

- 2. Dr. Subrata Bose, Additional Director (CS-I), 2nd Floor, Vayu Wing, Indira Paryavaran Bhavan, Ministry of Environment Forest & Climate Change, Govt. of India, Jorbagh Road, New Delhi.
- 3. PS to Director, G.B. Pant National Institute of Himalayan Environment and Sustainable Development, Kosi-Katarmal, Almora, Uttarakhand
- 4. Finance Officer, G.B. Pant National Institute of Himalayan Environment and Sustainable Development, Kosi-Katarmal, Almora, Uttarakhand
- 5. Principal Director of Audit, Scientific Department, AGCR Building, IP Estate, New Delhi
- 6. Guard File NMHS.

S.No. 3 C-20



G.B. Pant National Institute of Himalayan Environment and Sustainable Development (GBPNIHESD)

Kosi-Katarmal, Almora - 263643, Uttarakhand, India

Ref. No.: NMHS-2017/MG-04/480

Date: 22-12-2017

To,

Dr. K.V. Ramesh
Principal Scientist (AcSIR)
CSIR Fourth Paradigm Institute (CSIR 4PI)
NAL Belur Campus, Bangalore - 560 037

Subject: Approval of the Medium Grant (MG) for the project entitled "Enhancement of the quality of livelihood opportunities and resilience for the people in the Indian Himalayas, through Design of Intervention strategies aimed at maximizing resource potential and minimizing Risks in urban-rural ecosystem"

Sir,

I am directed to convey the approval of the Competent Authority for the above- mentioned project at a total cost of Rs.2,42,42,040.00 (Rupees two crore forty two lakh forty two thousand forty only) for a period of three years, as per the break-up given below:

Head	i st year (in Rs.)	2 nd year (in Rs.)	3 rd year (in Rs.)	Total
A. Recurring				
(i) Salary:- 01 Consultant @ Rs.30,000/- per month fix for three years, 03 JRF @ Rs.25,000/- + HRA @ 8% per month for first two years and @ Rs.28,000/- + HRA @ 8% per month for 3 rd year, 03 JPF @ RS.16,000/- HRA @ 8% or Minimum @ Rs.1,800/- per month for first two years and Rs.18,000/- + HRA @ 8% or minimum @ Rs.1,800/- per month for 3 rd year,03 Technical Assistant @ Rs.10,000/- per month fix for three years.	2332800.00	2332800.00	2521440.00	7187040.00
(ii) Travel (Domestic)	600000.00	700000.00	600000.00	1900000.00
(iii) Contingency:	400000.00	400000.00	400000.00	1200000.00
(iv) Consumables:	400000.00	300000.00	225000.00	925000.00
(v) Activity & other project Cost:. Data:IMD, satellite data hyper spectral images, socio-economic data, Lab analysis (soils and water quality), Capacity and awareness building/workshops, Meeting and	1900000.00	1800000.00	1800000.00	5500000.00

Page 1 of 6

MHS Livelihood

- Test and validate the intervention strategies through development of a system dynamical model to enhance Livelihood of the selected Himalayan Habitats.
- Enhancement of human-natural resources management to achieve environmental and economic benefits whilst minimizing their carbon footprint
- To provide policy options to achieve better quality of life for the selected Habitats and their prototypes in a sustained manner.
- Capacity and awareness building through stake holder interactions and design of viable intervention strategies for decision making and implementation that is also informed by the specificities of their traditional lifestyle.
- Development of integrated System
 Dynamical model to test the behavioural response of Himalayan communities and specific ecosystem elements to different Socio-economic and environmental stresses;
- Developing a decision support system by integrating SDM on GIS platform driven by the observed field and survey data related to various processes and phenomena for 3 main commercial crops in 3 states.

validated;

- No. of Baseline surveys performed;
- No. of Decision-support System developed for No. of Commercial Crops in IHR States;
- No. of Policy Guidelines and Legislative Mechanisms: Prepared and/ or Communicated;
- Publications and knowledge products (Nos.).

4. Sanction of the Competent Authority is also hereby conveyed for the release of Rs.1,26,62,800/-(Rupees one crore twenty six lakh sixty two thousand eight hundred only) towards Grants-in-Aid to Director, CSIR Fourth Paradigm Institute (CSIR 4PI), (Formerly CSIR Centre for Mathematical Modelling and Computer Simulation C-MMACS), NAL Belur Campus, Bangalore -560 037 for the above NMHS MG project for the financial year 2017-18 Plan/recurring being 1st installment of grants as per break-up below mentioned.

Head	Amount
A. Recurring (as Above)	
(i) Salary	2332800.00
(ii) Travel	600000.00
(iii) Contingency	400000.00
(iv) Consumable	400000.00
(v) Activities & other project cost	1900000.00
(vi) Institutional/ Overhead charges	Nil
B. Non Recurring	^
(i) Equipment (as Above)	7030000.00
Total	12662800.00

5. The Grants-in-Aid will be regulated in accordance with the provisions contained in the guidelines of the Ministry of Environment, Forest & Climate Change, New Delhi. The Grants-in-aid is also subject to

- XIV. On the basis of the terms and conditions given in **Annexure-I**, action is being taken up for the drawal of the sanctioned amount of the first installment of the first year's grant during the financial year 2017-18.
- XV. The sanction of the grant is subject to the whole details with nature of work of this project under "NMHS" clearly mentioned in the website/ all knowledge products of the Grantee.
- XVI. A separate saving bank account is to be opened for NMHS Project as per the provision Direct Beneficiary Account (DBA) as laid out by the Govt. of India and also facilitate the audit of accounts. The interest earned out of the NMHS project funds should be reported clarify in the utilization certificate.
- XVII. The Project commissioned under "National Mission Himalayan Studies-Medium Grant" would be for the **tenure of three years** *w.e.f.* **01.1.2018**. If the project proponent/ lead agency is able to produce the desired results after mid-term evaluation/ assessment in terms of measurable and quantifiable deliverables on the ground, the extension can be given for maximum up to 2 years.
- XVIII. The amount of Rs.1,26,62,800/- (Rupees one crore twenty six lakh sixty two thousand eight hundred only) will be drawn by the <u>Drawing and Disbursing Officer</u>, G.B. Pant National Institute of Himalayan Environment and Sustainable Development, Kosi-Katarmal, Almora (U.K) and disbursed to <u>Director</u>, <u>CSIR Fourth Paradigm Institute</u> (CSIR 4PI), NAL Belur Campus, <u>Bangalore 560 037</u> through bank by ECS. The Grantee will open a new account in nationalized bank and send the following details to NMHS-PMU for release.

Bank name

Account no-

FSC Code

Account Holder

- 6. The amount will be debited in the Major Head 3435.03.104.11.04.31 Grant-in-Aid-General-NMHS.
- 7. Please send your acceptance for the terms and conditions of this Sanction Letter so that above grant could be transferred to the Head of Implementing Agency through Bank transfer on designated account.
- 8. Please note that following documents must be submitted before the start of the project activities.
 - 1. Quotations for the equipments to be procured.
 - 2. Roles and responsibilities of the partners with the budget allocated to them.
 - 3. Fair copy of Bond duly signed by authorized person of grantee (Rs. 100 stamp paper)

Encl.: Annexure-I Appendix- A

Appendix- B Yours Sincerely,

(Er. Kireet Kumar)
Director Incharge, GBPNIHESD and
Nodal Officer, NMHS-PMU

Copy to:

1. The Director, CSIR Fourth Paradigm Institute (CSIR-4PI), NAL Belur Campus, Bangaluru

 Dr. Subrata Bose, Additional Director (CS-I), 2nd Floor, Vayu Wing, Indira Paryavaran Bhavan, Ministry of Environment Forest & Climate Change, Govt. of India, Jorbagh Road, New Delhi S.NO 4 C-21

No. DST/INT/AUS/P-55/2013 Government of India Ministry of Science & Technology International Division

10.10.2013

ORDER

Sanction of the President is hereby accorded for incurring an expenditure not exceeding Rs. 48,82,800/- (Rs. Forty eight lakh eighty two thousand eight hundred only) in connection with implementation of the Indo-Australian Joint Project on "Inter-dependencies of deep crustal and surficial geological processes during continental collision" by Prof Talat Ahmad, Dept of Earth Sciences, University of Kashmir, Srinagar - 190006 in collaboration with Dr. Jonathan Clement Aitchison, School of Geosciences, The University of Sydney for a total duration of three years from the date of receipt of the DD of initial grant which has to be intimated by the grantee institution.

2. The composition of the project team is as below:

Indian Side	Australian Side		
i) Prof Talat Ahmad, Dept of Earth Sciences,	i) Dr. Jonathan Clement Aitchison		
University of Kashmir, Srinagar – 190006	School of Geosciences		
ii) Prof. Santanu Bhowmik	The University of Sydney, Australia		
Institute of Technology, Khargpur	ii) Prof. Gordon Stuart Lister		
iii) Prof. Somnath Dasgupta	Australian National University		
Assam University, Silchar	iii) Prof Trevor Russell Ireland		
iv) Dr. Reyaz Ahmad Dar	Australian National University		
Dept of Earth Sciences, University of Kashmir	iv) Dr. Margaret Anne Forster		
	Australian National University		
	v) Prof. Geoffrey Leslie Clarke		
	University of Sydney		

The change/replacement of project participants is not allowed. The participating scientists should be working on the project and affiliated with the Institute/University holding the indicated position at the time of start of the project as well as at the time of exchange visits under the project. The expenditure related to approve visits of participating scientists, as mentioned above, only can be met from the project grant.

3. The breakup of estimated expenditure is as indicated below and re-appropriation of funds from one budget head to the other is NOT permitted under this project:

Items of Expenditure	1 st Year	· 2 nd Year	3 rd Y [*] ear	Total (Rs.)
A. Manpower (RA- 1 position) @ Rs.22000/-+ 20% HRA = 26400/-	3,16,800/-	3,16,800/-	3,16,800/-	9,50,400/-
JRF 2 position @ Rs.16000/- + 20% HRA = 19200 per month	4,60,800/-	4,60,800/-	4,60,800/-	13,82,400/-
B - Local Field Work	1,50,000/-	1,50,000/-	1,50,000/-	4,50,000/-
C Consumables	1,00,000/-	1,00,000/-	1,00,000/-	3,00,000/-
D - Cost for visits by Indian scientists to Australia by lowest	3 visits	· 3 visits	3 visits	9 visits
,	3,00,000/-	3,00,000/-	3,00,000/-	9,00,000/-

C.C. Pary. Rougho.

grand.

The grantee Institute/University shall maintain separate accounts for the project and the amount of grant will be kept in a blank account earning interest. The interest earned should be reported to DST while submitting the SE/UC. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of grant.

- As per rule 211 (1) of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
- Grants-in-aid will be utilized for scientific research only. . 11.
- 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 GFRs, shall not be disposed of without obtaining the prior approval of DST.
- Grant released are proprietary in nature and DST reserves proprietary rights on the assets created out of grants.
- The expenditure involved will be debitable to Demand No. 85

- Other Scientific Research (Major Head)

60.798 - International Cooperation (Minor Head)

- Cooperation with Other Countries

12.00.31 - Grants-in-aid general during the current financial year 2013-2014 (Plan Expenditure)

- This sanction order being 1st instalment for implementation of this project no SE/UC is due from the grantee institute against this project at this stage.
- This issues under the delegated powers to the Ministries/Departments and with the financial concurrence of JS & FA, vide Dy. No. 1392/2013-2014 dated 04.10.2013

This Sanction Order has been entered in Grant-in-aid Register at S. No.2 69 17.

> (Naveen Vasishta) Scientist 'D'

To

The Pay & Accounts Officer, Dept. of Science and Technology, New Delhi

Copy to:

- 1. Office of the Principal Director & Audit IIIrd Floor, AGCR Bldg., IP Estate, New Delhi-
- 2. Cash Section (3 copies), DST
- 3. I.F. Division/Accounts Section, DST
- 4. Registrar, University of Kashmir, Srinagar, Hazratbal, Srinager Jammu & Kashmir - 190006
- 5 Prof Talat Ahmad, Dept of Earth Sciences, University of Kashmir, Hazratbal, Srinagar, Jammu and Kashmir. Pin - 190006

6. Sanction folder.

(Naveeh Vasishta) Scientist 'D

5.No. 5b C-22-23

MOU BETWEEN CSIR 4PI and UNIVERSITY OF KASHMIR

THIS MEMORANDUM OF UNDERSTANDING (hereinafter referred to as "MOU") is made and entered into on this 30th day of December Two Thousand Thirteen between:

University of Kashmir, located at Hazratbal, Srinagar - 190006, J&K, India represented by its Vice Chancellor (hereinafter called "UoK", which expression shall where the context so admits include its successors and permitted assignees) on the first part;

AND.

Council of Scientific and Industrial Research, a society registered under the Societies Registration Act "(XXI of 1860)" having its registered office at Anusandhan Bhavan, 2, Rafi New Delhi 110 001 India represented through its constituent laboratory CSIR Fourth Paradigm Institute (formerly CSIR Centre for Mathematical Modelling and Computer Simulation) located at National Aerospace Laboartories, Belur campus, Bengaluru, (hereinafter called "CSIR 4PI", which expression shall where the context so admits include its successors and permitted assignees) on the other part.

Hereinafter, both parts are individually referred to as "PARTY" and collectively as "PARTIES" in the MoU.

1. Preamble:

Whereas, **University of Kashmir is** a multi-faculty University, imparting instruction in various subjects in the Faculty of Arts, Languages, Natural Sciences, Social Sciences, Education, Commerce, Law, Medicine, Dental Surgery, Engineering, Music and Fine Arts and Non-formal Education; and,

Whereas, CSIR 4PI is center for data intensive research, mathematical modelling and computer simulation under the aegis of CSIR, Government of India presently working in the areas of Solid Earth Modelling, Ocean and Atmosphere Modelling, Network and Cyber security, Nonlinear Dynamical System and Computational Mechanics with a focus on High Performance Computing to R&D in diverse domains including Data Intensive Research and Scientific Computing using Massively Parallel Supercomputers; and

Whereas, Parties agree on the objective of creating a framework for enriching scientific endeavors in mutually agreed fields of research through collaboration in developing and implementing new academic and research programmes and faculty and students exchange. Now therefore, Parties have agreed to come together and have decided to work jointly on the following terms and conditions in certain areas of common interest as listed below:

- Lithosphere Modelling using Broadband Seismology
- Earthquake Hazard and Risk Assessment
- Crustal Deformation Study
 - · Climate Change and Atmospheric Modelling
 - Network and Cyber security
 - Nonlinear Dynamics and Computational Mechanics
 - · High Performance Scientific and Data Intensive Computing

2 Scope of th

2. Scope of the MoU

I. Academic:

- The Parties shall collaborate in developing new academic programmes and enrich existing ones towards addressing emerging issues requiring specialized knowledge and expertise.
- Collaboration shall be encouraged between various academic Departments/ groups
 of the Parties to help each other mutually advance the content and level of academic
 programmes.

II. Research:

- The Parties shall collaborate with each other in mutually agreed areas of interest towards the promotion of high quality research work
- Formulate and implement Joint Research Projects and allow joint supervision of research programmes (Ph.D).
- Design and Conduct conferences / workshops/seminars jointly with active participation of faculty members from the two Organizations.

III. Faculty Exchange:

- 1. Parties shall encourage exchange of faculty and research scientists whenever required in the furtherance of the various joint programmes.
- 2. Each Party shall encourage short visits by Faculty members/ research staff to sustain continued interaction with teachers and researchers.

IV Student Exchange:

- Each Party shall endeavour to provide local facilities to visiting scholars and trainees as well as access to advanced instrumentation systems, computers and other infrastructural facilities as per the prevailing rules and regulation of that Party for the duration of the visit.
- CSIR 4PI shall provide a few summer internships every year to meritorious students of Kashmir University to enable them work on short projects during summer/winter recess, as well as semester long projects on mutually agreed programmes without any financial commitment, within the framework of its student program SPARK.

3. Parties Obligations:

The Parties agree to cooperate and support each other for implementing this MOU effectively. They shall endeavour to facilitate the living and work of visiting scholars in every possible way.

- 1. Provide access to libraries, archives, research laboratories and other facilities to the extent possible.
- 2 Provide access to high-end instruments and equipments to the extent possible.
- 3. Encourage joint discussions on new developments, formulation of academic and writing of scientific and technical papers

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organization. Termination of this MoU shall not terminate the agreements entered between the Parties and with any third parties which the Parties may have entered into in executing the agreements under this MoU; the Parties shall continue to obtain the benefits of the MoU and agreement and fulfil their obligations for the term of each and every such agreement. After termination of MoU, neither of the Parties will be responsible for any losses, financial or otherwise, which the other Party may suffer. Upon termination or expiry of the MoU Parties are obliged to keep the information confidential, as per clause 9.

 This MOU shall be effective from the date it is signed by the University of Kashmir, Srinagar and CSIR 4PI, Bengaluru.

7. Intellectual Property Rights

No rights in Industrial and/or Intellectual Property (Including without limitation, letters, patent, registered design, software copyrights, trademark and copyright) owned by the Parties on the date of signature of this MoU and independently developed on their part are hereby granted by the owning Party to the other Party, nor shall any such rights be deemed to be granted except specified by the owning Party in writing. Each Party will have the exclusive ownership and rights on the independently developed intellectual property after the signing of MoU.

The Intellectual Property Rights in respect of joint project will be decided on case-tocase basis. Parties will mutually decide on sharing of required information by way of joint publication in journals and seminars or workshops etc. All publications resulting from the collaboration between the Parties will be mentioned in the scientific reports of the either Party.

8. GENERAL PROVISIONS

- Neither Party shall assign, or in any manner, transfer its interest or any part
 thereof in this MoU, except to wholly owned subsidiaries and agreed explicitly to
 that effect in writing. This MoU shall be binding up on and inure to the benefit of
 the Parties hereto and their respective heirs, personal representatives,
 successors and assignees; and,
- This MoU constitutes the entire understanding between the Parties relating to the subject matter hereof and supersedes and cancels any and all previous or collateral MoUs, negotiations, commitments, representations or understandings between the Parties with respect to this MoU, and the subject matter hereof. If any of the provisions of this MoU are determined to be invalid under applicable law, they are, to that extent, deemed omitted. The invalidity of any portion of this MoU shall not render any other portion invalid; and,
- No amendments or modifications of this MoU shall be valid unless the same are made in writing by both the Parties or their authorized representatives and specifically stating the same to be an amendment of this MoU. The modifications/changes shall be effective from the date on which they are made or executed unless otherwise agreed to.

- 4. Share knowledge/ information and publications/magazines/literature essential for the academic pursuit subject to prevailing rules governing copyright.
- 5. Allow utilization of services of each other's scholars and students in the conduct of archival field surveys, theoretical and computer based investigations, data generation, and exchange and setting up experimental facilities.
- Provide logistical support for setting up experimental systems in different locations of interest.
- 7. Parties will have equal access to any data generated (either observational or computational) under the aegis of this MoU with an understanding that the data will not be shared with any foreign collaborators.
- 8. Every member of both the Organizations participating in any activity under the aegis of this MoU will abide by the prevailing policies of Govt. of India with respect to classified information/data. During the tenure of this MoU and for *Five years* thereafter, Parties undertake on their behalf and on behalf of their students or subcontractors or employees or representatives or associates to maintain strict confidentiality and prevent disclosure thereof to any third party, all the information and data exchanged or generated during the operation of MoU.

4. Financial Aspects

No financial commitment from either Organization will be assumed unless a formal approval/acceptance to that effect has been accorded through signed documents by both the Organizations.

5. COMMUNICATION

Any communication or notice or intimation shall be addressed to the Nodal contacts of the respective PARTIES and sent to the registered address of the PARTIES concerned and such a communication sent by e-mail, tele-fax, registered air-mail shall be deemed to be sufficient.

6. Operationalisation of the MOU:

In order to operationalise this MOU, each organization will appoint a coordinator who will organize joint meetings at regular intervals at Bengaluru/ Srinagar and maintain records of agreements, work plan and progress. The coordinators will be responsible for ensuring strict compliance in accordance with the provisions of this MoU.

- o If any of the visiting student, scholar or faculty member commits any kind of impropriety at the host institute during the period of his/her visit, the facilities offered to him/ her may be immediately withdrawn and the visitor asked to return.
- A report regarding the impropriety committed by the concerned shall be forwarded to his/ her parent institution for initiating necessary disciplinary action under rules;
- This MOU shall remain in force for a period of three years in the first instance, where after it may be renewed on mutual consent of Parties.
- This MOU may be terminated prior to the expiry of the MOU as indicated above with three months notice and with the written consent of the Heads of the two

C,22,23

- This MoU is not intended to constitute, create, give effect to, or otherwise recognize a joint venture, partnership, or formal business organization of any kind, and the rights and obligations of the Parties shall be only those expressly set forth herein. Nothing in this MoU shall be construed to grant either Party the right to make commitments of any kind for or on behalf of the other without the other's prior written consent. At all times contemplated herein, UoK and CSIR-4PI shall remain independent entities, each responsible for its own employees. Each Party assumes no responsibility to the other for costs, expenses, risks, and liabilities arising from the efforts of the Party.
 - SEVERABILITY: The invalidity or unenforceability of any provision of this MOU shall not affect the validity or enforceability of any other provision of this MOU that shall continue in full force and effect except for any such invalid and unenforceable provision.
 - NON WAIVER: The failure or neglect by either of the PARTIES to enforce
 any of the terms of this MOU shall not be construed as a waiver of its rights
 preventing subsequent enforcement of such provision or recovery of
 damages for breach thereof.

9.0 CONFIDENTIALITY AND NON-DISCLOSURE

- 9.1 Any software/hardware material, product specifications, data, designs, financials, information, documents shall be deemed to be in private domain and it shall not be made public or shared with any third party without the prior written consent of the party which owns it.
- 9.2 The material shall be treated as confidential for a minimum period of two years after this MOU comes to an end or as agreed from time to time in writing.
- 9.3 This Confidential obligation, however, does not apply if that information:
 - a. is or becomes generally available to the public without any fault from RECEIVING PARTY; or,
 - b. is lawfully in the possession of the RECEIVING PARTY prior to a disclosure without breach of this MOU; or,
 - c. is independently developed by RECEIVING PARTY without the use of such disclosed materials; or,
 - d. has been acquired through a third party who is not obligated under this MOU; or,
 - e. is disclosed by the RECEIVING PARTY with the DISCLOSING PARTY'S prior written approval, or,
 - f. is required to disclose the information under legal or statutory or regulatory requirements by operation of law. In such a case, RECEIVING PARTY promptly informs the Disclosing PARTY well in advance and co-operate with disclosing PARTY to avoid the inadvertent and improper disclosure of confidential information.

PARTIES acknowledge that the confidential information is valuable and unique. In case of breach, the affected PARTY shall be entitled to claim injunctive relief

in addition to all other remedies available in law or equity including monetary damages.

10. FORCE MAJEURE

Neither Parties shall be held responsible for non-fulfillment of their respective obligations under this MoU due to the exigency of one or more of the Force Majeure events such as, but not limited to, the acts of God, War, Flood, Earthquake, Strikes, Lockouts, Epidemic, Riots, Civil commotions etc. provided on the occurrence and cessation of any such event the Party affected thereby shall give a notice in writing to the other Party within 30 (Thirty) days of such occurrence or cessation. If the Force Majeure conditions continue beyond 6 (six) months, the Parties shall jointly decide about the future course of action.

11. GOVERNING LAWS AND DISPUTES RESOLUTION

This **MoU** shall, in all respects, be governed by and construed in all respects in accordance with the laws of the Republic of India.

This MoU is to create a framework for enriching scientific endeavours in mutually agreed fields of research through collaboration in developing and implementing new academic and research programmes and faculty and students exchange. Hence any question, doubt or dispute arising out of the interpretation of any term or usage herein or on the implementation and functioning of the various understandings forming a part of this MoU shall be resolved by the Heads of the two organizations or their authorized representatives for the purpose mentioned herein by discussions and negotiations based on consensus in the spirit of developing and strengthening the mutual relationships. Any unresolved dispute if any, shall be referred to Sole Arbitrator in accordance with Arbitration and Conciliation Act, 1996 and rules framed thereof. Arbitrator shall be appointed on mutual consent of Parties. Arbitration shall be conducted at Bengaluru in English language. The decision of arbitrator so reached shall be final and binding on both the parties.

9. SEAL OF THE PARTIES .

In witness whereof, the PARTIES represented by their authorized representatives, set forth their hands on this the day, month and year first stated above, agreed and accepted this MoU to be signed in the presence of the following witnesses:

Signature: Signature: Musharda

Name: Man. A M SHAH

Name: M.K.SHARADA

C. 25, 25

Seal & Designation:

UN.क. जारदा/M.K. अस्ति प्रथम वैज्ञानिक पूर्व अक्रांक प्रथम वैज्ञानिक पूर्व अक्रांक प्रथम वैज्ञानिक पूर्व अक्रांक प्रथम वैज्ञानिक पूर्व अक्रांक प्रथम विज्ञानिक पूर्व अक्रांक प्रथम विज्ञानिक प्रथम रिम्बर्ग (प्रथम रिम्बर्ग (प्रथम रिम्बर्ग (प्रथम विज्ञान संस्थान CSIR-Fourth Paradigm Institute प्रथम विज्ञानिक विज्ञानि



Department of Lartn Sciences University of Kashmir, Srinagar- 190006, J. K.

Dr. Shakil Ahmad Romshoo Professor & Head

NO: F(MOU-ES)KU\15 Dated: 04-02-2015

ORDER

The following faculty members of the department are designated as Nodal Officers (shown against each MOU) for optimal utilization of the ongoing collaborations under various MOUs signed by the University with the following national institutes/organizations:

Name of the faculty	Partner Institutes/Organizations
Dr. Gh. Jeelani	National Geophysical Research Institute (NGRI), Hyderabad
Dr. Bikram Singh Bali	Geological Survey of India, Kolkata
Dr. Rakesh Chandra	CSIR 4 th Paradigm Institute (4PI) Banglore
Mr. Irfan Rashid	Indian Institute of Tropical Meteorology (IITM), CSIR, Pune

The Nodal Officers shall be responsible for the implementation and strengthening of various collaborations/schemes provided under the MOUs. The Nodal Officers shall submit six monthly progress reports about the achievements under the MOU to the Head of the Department and the same shall be reviewed annually by the committee designated for the purpose.

By order of the Vice-Chancellor,

Head of the Department

Copy to:

- 1. Dean, Academic Affairs for information:
- 2. Dean Research, University of Kashmir for information:
- 3. Registrar University of Kashmir for information;
- 4. Special secretary to vice-Chancellor for information of the Hon'ble Vice-Chancellor;
- 5. All the Executive Heads/Nodal Officers of the MOU collaborating Agencies;
- All the above faculty members for information and necessary action. A copy of the concerned MOU is enclosed for record & reference.
 - 7. File.



सीएसआईआर—चौथा पैराडाइम संस्थान CSIR-Fourth Paradigm Institute

(पूर्व सीएसआईआर-सी-मैक्स / Formerly CSIR-CMMACS)

एनएएल बेल्र कैम्पस, बेंगलूर *Campus Bangalore-560.037

NAL Belur Campus, Bangalore-560 037

14th October, 2015 Bangalore

To Prof. Shakil Ahmad Romshoo, Professor and Head, Department of Earth Sciences, University of Kashmir, Hazratbal, Srinagar Kashmir, India-190006

Phone: 9419010924 (M) +91-194-2415553(O) Fax: +91-194-2414246 http://geology.uok.edu.in

Sub: Establishment of Continuous mode Global Navigation Satellite System (CGNSS) station in University of Kashmir, Srinagar.

Dear Dr. Shakil Ahmad Romshoo,

As part of establishment of CGNSS stations in Kashmir Valley, as discussed during our last field visit, we are planning to establish station with Meteorological sensor at indentified location near to Earth Sciences Dept., University Campus, Srinagar during this field visit starting October 20, 2015.

I am writing this letter to get necessary permissions from the administration for the above

Thanking You

Yours sincerely,

(Dr. Sridevi Jade)

डॉ. श्रीदेवी जडे/Dr. SRIDEVI JAL... वृष सम्बद्ध IGroup Coordinator बन पू प्रतिक्षण कार्य Solid Earth Modelling Programme सीएसआईआर-चौथा पेशडाइम संस्थान CSIR-Fourth Paradigm Institute एनएएल बेलूर केम्प्स/NAL क्रिप्प Campus वृंगलूर/Bangalore - 586 037 Allowed James works to h.



Department of Earth Sciences University of Kashmir, Srinagar-190006, J & K

Dr. Shakil Ahmad Romshoo Professor & Head

NO: F(MOU -ES) KU/15 Dated: July 27, 2015.

Dr. Rakesh Chandra, Sr. Assistant Professor, Department of Earth Sciences.

Officer for the implementation and promotion research/academic achievements as outlined under the MOU signed between the University and CSIR 4th Paradigm Institute (4PI), Banglore, you are due for submission of six monthly progress report by 04.08.2015 highlighting the achievements and your contribution in terms of order no. F(MOU-ES)KU/15 dated 04.02.2015 (copy enclosed). It is pertinent to mention here that the MOUs have been signed by the University with these prestigious national institutes to promote the core and applied disciplines of the Earth Sciences in the University. You are therefore requested to please submit the report on the due date for onward transmission/perusal of the Vice-Chancellor who is keen in knowing the contribution of every Nodal Officer in promoting the research collaborations with the partner organizations/institutes.

Head of the department

Copy to the:

1. Dean, Academic Affairs;

2. Dean, Faculty of Physical and Material Sciences;

3. Special Secretary to Vice-Chancellor for information of the Vice-Chancellor;

4. File.



Department of Earth Sciences University of Kashmir, Srinagar- 190006, J & K

Dr. Shakil Ahmad Romshoo Professor & Head

ORDER

The Vice-Chancellor has been pleased to authorize:-

- i) Dr. Rakesh Chandra, Sr. Assistant Professor, Dept. of Earth Sciences, to act as Nodal Person between the C-MMACS, Bangalore and University of Kashmir in the research collaboration for expansion of seismic observation network in the state of Jammu & Kashmir;
- ii) opening up of separate bank account in the J&K Bank, Hazratbal, for operation of funds received from C-MMACS, Bangalore and other collaborators for the execution of collaborative projects.

No:F(Project-C-MMACS)ES/Ku\2012 Dated: November 20,2012 Head of the Department

Copy to:-

- 1. PS to Vice-Chancellor for information of the Vice-Chancellor;
- 2. Manager, J & K Bank, Branch Hazratbal, Srinagar;
- V. Dr. Rakesh Chandra, Sr. Assistant Professor;
 - 4. File.

S.No.6 - C-24

No. MoES/P.O.(Geosci)/16/2013 Government of India Ministry of Earth Sciences

> Prithvi Bhavan, Lodhi Road, New Delhi- 110003 Dated: 28/03/2016

ADMINISTRATIVE ORDER

Subject: Geological characterization of the Kashmir Valley with the objective of quantifying probabilistic hazard and risk in high risk areas of the valley using a logically integrated set of geoscientific investigations.

Approval of the Competent Authority is hereby conveyed under rule 18 of the Delegation of Financial Power Rules, 1978 for implementation of the joint project entitled "Geological characterization of the Kashmir Valley with the objective of quantifying probabilistic hazard and risk in high risk areas of the valley using a logically integrated set of geoscientific investigations" to be implemented by Department of Earth Sciences, University of Kashmir, Srinagar, and CSIR-FOURTH PARADIGM INSTITUTE, BANGALORE (Erstwhile CSIR-CMMACS), at an estimated cost of Rs. 2,49,20,430/- (Rupees two crores forty nine lakhs twenty thousand four hundred and thirty only) for three years during 2015-16 to 2017-18 (Rs 1,57,58,410/- during 2015-16, Rs56,08,410 during 2016-17 and Rs 35,53,610 during 2017-18) as per the details of the project given below:-

2.0 Objectives:

The objective of the proposal is to quantify geological hazard and risk in high-risk areas of the valley using a logically integrated set of geo-scientific investigations: up-to-date knowledge of the tectonics and kinematics of the region, vulnerability of various structural typologies prevalent in the valley and specialized high resolution scientific investigations now well established and globally adopted for hazard quantification.

The above objective is proposed to be accomplished through the following work elements.

- 1. Geological mapping and generation of 2-D geological cross-sections across the high risk areas of the valley, along with a search for pene-contemporaneous deformation features and their subsequent characterization (nature and extent of slips, dates)
- 2. Sedimentological analysis of the sediments, complemented with borehole data for the high risk areas of the valley and geotechnical investigations.
- 3. Characterizing the subsurface geology of the valley in its various structural settings by measuring and analyzing the characteristics of environmentally generated random vibrations on the surface, using passive sensors.
- 4. Preparation of a hazard map of the valley using state of the art simulations incorporating site-characteristics.
- 5. Preparation of a vulnerability map of the high risk areas of the valley based on demography, building typologies, structural analysis, geotechnical and user-friendly setting of infrastructure systems and available geophysical knowledge.

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6. Preparation of an earthquake risk map for the high risk areas of the Kashmir Valley as well as the design of a demonstrably reliable scientific protocol for risk assessment of critical structures and public infrastructure.

2.1 Programme & Implementation Plan:

The proposed study is chiefly focused on the assessment of geological hazard modeled on the basis of the ambient structural features and lithological variations across the high risk areas of the valley. A basic element of the proposed work that would constitute the primary data for most of the other elements of the proposal, will be the preparation of a detailed geological map of the valley and its bounding structures together with 2-D subsurface geological profiles across its various tectonic zones, as well as the geotechnical characterization of soils, especially the Karewa sediments of varying lithologies of the areas. It was considered prudent to pursue complementary approaches that can be more speedily implemented, and would expectedly provide the first order knowledge product that would be capable of being further refined as new data is gained.

It is proposed to accomplish this work through detailed geological mapping and preparation of 2-D sub-surface geological profiles along some selected cross-sections. The consequential structural elements of the valley and geotechnical characteristics of its sediment cover will be complementarily investigated along with another independent approach to analyze the characteristics of the environmentally generated random ground noise on the surface above, using an array of passive sensors, as well as selected suites of borehole data. With these investigations, would be carried out a vulnerability analysis of structures in high risk areas.

2.2 Collaborating Investigators/Institutions

This interdisciplinary initiative is multi-partnered and would be conducted jointly by the Department of Earth Sciences, University of Kashmir as the lead partner and scientists of CSIR-FOURTH PARADIGM INSTITUTE, BANGALORE (Erstwhile CSIR, C-MMACS, Bangalore). The Principal Investigator shall be responsible for the coordination of laboratory and field investigations with specific tasks assigned to each of the Co-investigators.

2.3 Implementing Organization:

Department of Earth Sciences, University of Kashmir, Srinagar, and CSIR, C-MMACS, Bangalore would be implementing this project.

2.4 Estimated Project Cost:

Total estimated cost of the joint project is Rs. 2,49,20,430/- only (Rupees two crores forty nine lakks twenty thousand four hundred and thirty only) for three years. The first year fund requirement is Rs. 1,57,58,410/- (Rupees one crore fifty seven lakks fifty eight thousand four hundred and ten only). The year-wise/item-wise fund requirement is given below:

S.N.	Item Name	1st Year	2 nd Year	3 rd Year	Total (In Rs.)
1	Research Man Power: (i)Kashmir Univ. RA(1) @Rs. JRF (4)@Rs. (ii)C-MMACS:	9,66,010	9,66,010	10,48,810	29,80,830



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	RA(1) @Rs. JRF (2)@Rs.	8,42,400	8,42,400	9,04,800	25,89,600
2	Travel, Field work (i) Kashmir Univ. (ii)C-MMACS	15,00,000 1,00,000	15,00,000 1,00,000	9,00,000 1,00,000	39,00,000 3,00,000
3	Consumable materials (i)Kashmir Univ. (ii)C-MMACS	1,50,000 1,00,000	1,50,000 1,00,000	1,50,000 1,00,000	4,50,000 3,00,000
4	Other Costs (i) Kashmir Univ.: (Borehole drilling, satellite data)	36,00,000	18,00,000	2,00,000	56,00,000
	(ii)C-MMACS:	50,000	50,000	50,000	1,50,000
5	Permanent Equipment (i)Kashmir Univ.: (Global positioning system, computing	17,50,000	-		17,50,000
	hardware, GPS camera,bldg. material) (ii)C-MMACS: (10Micrometer recorders, 5sensros, computing hardware)	66,00,000			66,00,000
6	Overhead cost i) Kashmir Univ. (ii)C-MMACS	50,000 50,000	50,000 50,000	50,000 50,000	1,50,000 1,50,000
	Total i) Kashmir Univ. (ii)C-MMACS	80,16,010 77,42,400	44,66,010 11,42,400	23,48,810 12,04,800	1,48,30,830 1,00,89,600
	Grand Total	1,57,58,410	56,08,410	35,53,610	2,49,20,430

2.5 Time Schedule: 3 years from commencing date (2015-16 to 2017-18)

2.6 Description and proposed programme to be implemented by:

This joint project will be implemented by the Principal Investigator Dr.Rakesh Chandra, Dept. of Earth Sciences, University of Kashmir, Srinagar, as per schedule given below:

First Year: Detailed geological mapping, lithological and structural mapping of Kashmir valley, 2-D cross sections, generation of microtremor geophysical data and collection of field data for Remote sensing analysis.

Second Year: Preparation of geological map and cross-sections, determination of shear wave velocity structure of soil, collection of geotechnical data and validation of shear wave velocity structure of soil, numerical modeling and simulation of ground motion. Generation of Remote Sensing &GIS Database.

Third Year: Preparation of vulnerability map, generation of database and project report.



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2.7 Project Monitoring & Evaluation

The progress of the Project shall be monitored by Project Appraisal Monitoring Committee-Geoscience (PAMC-Geoscience) during its bi-annual meetings. In addition the progress will be reviewed against timelines through the Annual Progress Reports.

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

3425	Other Scientific Research (Major Head)
60	Others
200	Assistance to other scientific bodies (Minor Head)
52	Research, Education & Training Outreach
52.00.31	Grant-in-Aid-General for the FY 2015-16 (Plan)

2.9 Other Terms & Conditions:

- Allocation of budget is tentative and subject to changes after review of progress, both physical and financial as recommended by the Committee of Experts.
- A list of equipments procured and other assets created for this project from the funds released shall be provided to MoES in the prescribed format as per GFR 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 shall be diverted and/or disposed off without prior approval of the competent authority in MoES.
- Codal provisions for procurement of goods and services and requisition of research personnel shall be ensured.
- While implementing the programme all relevant procedures will be followed and the Ministry shall be apprised of the progress of the project from time to time.
- Utilization Certificate and statement of expenditure for the expenditure incurred on the project shall be submitted periodically in the prescribed format as per GFR 19-A.
- The interest earned on the grants should be indicated in the UCs while its submission for further release.
- The grant received should be placed in the interest bearing Account.

3.0 This issues under the powers delegated to this Ministry and with the concurrence of IFD, vide their Diary No. 1014/IFD/15 dated 17/03/2016 and approval of the Secretary, MoES vide Diary No.P-839/Secy/16 dated 21/03/2016.

(A.K.Bhattacharyya) Under Secretary to the Govt. of India

То

The Pay and Accounts Officer, Ministry of Earth Sciences, Mausam Bhawan, New Delhi-110 003

Copy to:

1. Cash Section, MoES- for information.

2. The Principal Director of Audit (Scientific Department), AGCR Building, IP Estate, New Delhi.

3. Dr.Rakesh Chandra, Dept. of Earth Sciences, University of Kashmir, Hazratbal, Srinagar, J &K -190006

4. Registrar, University of Kashmir, Hazratbal, Srinagar, J &K -190006

5. DIRECTOR, CSIR-FOURTH PARADIGM INSTITUTE, BANGALORE (Erstwhile CSIR-CMMACS), NAL Branch, HAL Airport Road, Kodihalli, Bangalore- 560017

- Dr Imtiyaj A Parvez, the Principal Investigator, CSIR-FOURTH PARADIGM INSTITUTE, BANGALORE (Erstwhile CSIR-CMMACS), NAL Branch, HAL Airport Road, Kodihalli, Bangalore- 560017
- 7. Controller of Accounts, MoES, New Delhi
- 8. JS&FA / Adv.(KJR)/ Sct. F(OPM)/Sct.E(JB), MoES.
- 9. Sanction folder/ Guard file.

((A.K.Bhattacharyya) Under Secretary to the Govt. of India