

# National Mission on Himalayan Studies (NMHS)

## Large Grants (LG) Projects

### 1. LG Projects Approved for Financial Year 2016-17

| S.No.        | Project Title                                                                                                                          | Project Proponent                                                                  | Total Grants<br>(in Rs.) | 1 <sup>st</sup> Installment<br>(in Rs) |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------|----------------------------------------|
| 1.           | Coping with Uncertainty: Building Community Resilience and Ecosystem Based Adaptation to Climate Change in The Indian Himalayan Region | Dr. J.S. Rawat<br>International Union for Conservation of Nature (IUCN), New Delhi | 5,36,31,800              | 2,22,25,200                            |
| <b>Total</b> |                                                                                                                                        |                                                                                    | <b>5,36,31,800</b>       | <b>2,22,25,200</b>                     |

### 2. LG Projects Approved for Financial Year 2015-16

| S.No.        | Project Title                                                                                                                                                  | Project Proponent                                                                                                                | Total Grants<br>(in Rs.) | 1 <sup>st</sup> Installment<br>(in Rs) |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------|
| 1.           | Rejuvenation of Springs and Spring-fed Streams in Mid-Himalayan Basins using Spring Sanctuary Concept                                                          | Er. Soukhin Tarafdar,<br>Garhwal Unit, GBPIHED,<br>Srinagar-Garhwal                                                              | 3,76,16,000              | 1,93,89,600                            |
| 2.           | Biodiversity Assessment through Long-term Monitoring Plots in Indian Himalayan Landscape                                                                       | Dr. Paramjit Singh,<br>Botanical Survey of India<br>CGO Complex, Block D& F,<br>3rd MSO Building Sector-1,<br>Salt Lake, Kolkata | 3,43,71,200              | 1,11,94,400                            |
| 3.           | Timberline and Altitudinal Gradient Ecology of Himalayas, and Human Use Sustenance in a Warming Climate                                                        | Prof. S.P. Singh, Central<br>Himalayan Environment<br>Association, Nainital                                                      | 6,41,25,200              | 3,02,38,800                            |
| 4.           | Human-Wildlife Conflict Resolution Mechanism in Indian Himalayan Region: Risk Assessment, Prediction, and Management Through Research and Community Engagement | Dr. G S Rawat, Faculty of<br>Wild Life Sciences, Wildlife<br>Institute of India,<br>Chandrabani, Dehradun                        | 4,44,88,800              | 2,24,36,400                            |
| 5.           | Dynamics of Himalayan Ecosystem and its Impact under Changing Climate Scenario                                                                                 | Prof. A. P. Dimri, Dept. of<br>Env. Sciences, Jawaharlal<br>Nehru University, New<br>Delhi                                       | 2,10,02,000              | 1,27,50,000                            |
| 6.           | Technology Development, Management, and Long-Term Monitoring of Shifting Cultivation and Coal Mining in North-Eastern India                                    | Prof. S.K. Barik,<br>Department of Botany,<br>North-Eastern Hill<br>University, Shillong                                         | 2,85,65,600              | 96,17,600                              |
| <b>Total</b> |                                                                                                                                                                |                                                                                                                                  | <b>23,01,68,800</b>      | <b>10,56,26,800</b>                    |

# National Mission on Himalayan Studies (NMHS)

## **Medium Grants (MG) Projects**

### 1. MG Projects Approved for Financial Year 2016–17

| S.No. | Project Title                                                                                                                                                                            | Project Proponent                                                                                                                                         | Total Grants<br>(in Rs.) | 1 <sup>st</sup> Installment<br>(in Rs) |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------|
| 1.    | Community-Managed Conservation of Orchid Biodiversity and Tribal Livelihood Improvement in Manipur Hill Area                                                                             | Dr. A.N. Rao<br>Foundation for Environment and Economic Development Services Hengbung, Kangpokpi, Senapati Manipur                                        | 2,22,80,000              | 89,49,000                              |
| 2.    | Anthropogenic impacts and their management options in different ecosystems of the Indian Himalayan Region                                                                                | Dr. J.C.Kuniyal<br>Himachal Unit, G B Pant National Institute of Himalayan Env and Sustainable Dev (GBPNIHESD) Mohal, Kullu, Himachal Pradesh             | 2,67,68,400              | 1,46,77,300                            |
| 3.    | Innovative Technologies for Climate Change Mitigation and Biodiversity Conservation with alternate livelihood opportunities for mountain communities in North Western Himachal Himalayas | Dr. Lal Singh<br>Director Himalayan Research Group (HRG) Umesh Bhavan, Chota Shimla Himachal Pradesh                                                      | 86,87,000                | 34,14,000                              |
| 4.    | Capacity Building Strategies for Managing Complex Disasters in the face of Climate Change                                                                                                | Dr. Shyamli Singh<br>Indian Institute of Public Administration (IIPA), I P Estate New Delhi                                                               | 81,60,000                | 32,20,000                              |
| 5.    | Integrated Mountain Development Interventions in the Indian Himalayan Region                                                                                                             | Dr. Sushil Ramola<br>Integrated Mountain Initiative (IMI)<br>315/215/274 2nd Floor, Westend Marg, M. B. Road Saidul Ajaib New Delhi-110030                | 93,60,000                | 44,30,000                              |
| 6.    | Developing Disaster Resilience Action plan through GIS and prioritizing actions for Natural Disaster Risk Reduction in Urban Agglomerations of Shillong & Gangtok.                       | Dr. Jyoti Parikh<br>Executive Director IRADe, Integrated Research and Action for Development, C-80, Shivalik Main Road, Shivalik Malviya Nagar, New Delhi | 1,27,64,600              | 44,01,700                              |

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|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|
| 7.           | Strengthening State Training Institutions for Enhancing Capacities of Functionaries and Communities in Four Himalayan States                                                                                               | Dr. Ruchi Pant<br>UNDP India Post Box No. 3059, 55 Lodhi Estate<br>New Delhi - 110 003                                                                                | 3,26,99,000         | 1,37,75,400        |
| 8.           | Creating Communities of Practice and resilient village ecosystems in the mountain region of Uttarakhand                                                                                                                    | Dr. Lalit Pande<br>Director, Uttarakhand seva Nidhi Paryavarn Shikasa Sansthan Jakhan Devi, Mall Road Almora, Uttarakhand                                             | 94,53,250           | 44,51,200          |
| 9.           | Study and Monitoring of Climate Change Impacts and Health of the Environment of the Trans Himalayan region of Ladakh and the Designing of effective Development Strategies and Interventions for Adaptation and Mitigation | Mr. Jigmet Tapka<br>Ladakh Renewable Energy Development Agency Ladakh Autonomous Hill Development Council Block II, 1st Floor, Council Secretariat, Leh- Ladakh (J&K) | 3,71,42,400         | 1,71,60,000        |
| <b>Total</b> |                                                                                                                                                                                                                            |                                                                                                                                                                       | <b>16,73,14,650</b> | <b>7,44,78,600</b> |

## 2. MG Projects Approved for Financial Year 2015–16

| S.No. | Project Title                                                                                                                                                                                                                 | Project Proponent                                                                                                                                         | Total Grants (in Rs.) | 1 <sup>st</sup> Installment (in Rs) |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------|
| 1.    | Environmentally Sustainable Smart Synthesis of Carbon Nano material along with the production of High Value Added Fuel and Additives for the Concrete Mixture from Waste Plastic, Hazardous Waste Around the Himalayan Region | Dr. Nanda Gopal Sahoo, Nanoscience and Nanotechnology center, Department of Chemistry, Kumaun University, Nainital                                        | 1,97,88,800           | 1,37,40,000                         |
| 2.    | Collection, evaluation and conservation of native crops germplasm from Uttarakhand hills and pre-breeding through community participation.                                                                                    | Dr. Anand Singh Jeena, Professor, Directorate of Experiment Station, G.B. Pant University of Agriculture & Technology, Pantnagar, U.S. Nagar, Uttarakhand | 50,53,800             | 24,72,600                           |
| 3.    | Enhancing livelihood of Himalayan communities through action research and transforming wild produces into high value products                                                                                                 | Dr. Rajendra Dobhal, Uttarakhand State Council For Science & Technology (U-COST), Department of Science & Technology, Govt. of Uttarakhand, Dehradun      | 2,49,96,000           | 1,11,52,000                         |
| 4.    | Establishment of Gene Pool, Propagation and Ex-Situ Conservation of selected sensitive                                                                                                                                        | Dr. P. Prasad, High Altitude Plant Physiology Research                                                                                                    | 20796000              | 1,34,05,600                         |

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|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|
|              | high altitude Medicinal and Aromatic plant species and Nature Interpretation Site (NIS) for creating Awareness among the various stakeholders                                                                                                                                                                | Centre (HAPPRC)<br>Hemwati Nandan Bahuguna Garhwal University (A Central University Srinagar (Garhwal))                         |                     |                    |
| 5.           | A Sustainable Approach for livelihood improvement by Integrated Natural Resource Management in the central Himalaya                                                                                                                                                                                          | Dr. D.S. Rawat, Scientist 'F', GBPIHED, Kosi-Katarmal, Almora, Uttarakhand                                                      | 2,41,97,600         | 1,32,67,600        |
| 6.           | Sustainable use of Sikkim Himalayan Biodiversity for socioeconomic development of mountain villages with special reference to <i>Ophiocordyceps sinensis</i> , <i>Hippophaesalicifolia</i> , <i>Docyniaindica</i> and <i>Rhuschinensis</i> : Technology development, alternative livelihood and conservation | Dr. Dhani Raj Chhetri, Associate Professor, Dept. of Botany, Sikkim University, 6th Mile, Samdur, P.O. Tadong, Gangtok, Sikkim  | 94,19,600           | 38,02,400          |
| 7.           | Multidisciplinary studies in Floristic assessment, ecological analysis, ecosystem services, conservation and sustainable management of selected National Parks in Western Himalaya                                                                                                                           | Dr. Paramjit Singh<br>Director Botanical Survey of India CGO Complex, Block D& F, 3rd MSO Building Sector-1, Salt Lake, Kolkata | 70,70,000           | 30,07,400          |
| <b>Total</b> |                                                                                                                                                                                                                                                                                                              |                                                                                                                                 | <b>11,13,21,800</b> | <b>6,08,47,600</b> |

# National Mission on Himalayan Studies (NMHS)

## Small Grants (SG) Projects

### 1. SG Projects Approved for Financial Year 2016-17

| S.No. | Project Title                                                                                                                                                                                                | Project Proponent                                                                                                                                                                         | Total Grants<br>(in Rs.) | 1 <sup>st</sup> Installment<br>(in Rs) |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------|
| 1.    | Ecological monitoring and status of fish fauna in hydropower affected Alaknanda- Bhagirathi- Ganga Rivers                                                                                                    | Prof. Prakash Nautiyal<br>Department of Zoology & Biotechnology HNB Garhwal University<br>Srinagar, Uttarakhand.                                                                          | 23,08,000                | 7,11,000                               |
| 2.    | Environmental monitoring and assessment of climate change of tourism affected Himalayan sub regions of Shimla and Chamba (HP)                                                                                | Dr.Sunil Mittal<br>Centre for Environmental Science and Technology<br>Central University of Punjab, Bathinda.                                                                             | 32,21,600                | 15,30,000                              |
| 3.    | Capacity building on bamboo treatment techniques for promotion of Earthquake Resilient Housings and Structures in Hill regions of Tripura                                                                    | Dr. Pawan K. Kausik<br>Centre for Forest-based Livelihoods & Extension Shal Bagan Forest Campus, PO- Gandhigram Agartala, Tripura                                                         | 29,61,250                | 14,25,000                              |
| 4.    | Conservation of local ecology, and degraded or wasteland management through "Rambans" (Agave) plantation and generation of availability of resources in villages for providing base to livelihood activities | Sh. Satish Kandwal<br>Girish Grih Udyog<br>Evam Resha Utpadn<br>Samit Kimsar,<br>Kaleshwar Press,<br>Badrinath Marg,<br>Kotdwar Pauri<br>Garhwal, Uttarakhand                             | 34,29,300                | 14,69,000                              |
| 5.    | Bamboo bricks/laminates from BMFs (Bamboo Micron Fibres) for low cost housing structures for North Eastern Himalayan region                                                                                  | Dr. S. Halder<br>Department of Mechanical Engineering NIT Silchar Assam                                                                                                                   | 44,91,000                | 20,72,000                              |
| 6.    | Livelihood improvement and empowerment of rural poor through quality bulb production in cut flowers under temperate conditions of Kashmir Valley                                                             | Dr. Z.A. Bhat<br>Division of Floriculture and Landscape Architecture Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir<br>Shalimar, Srinagar,<br>Jammu & Kashmir | 44,25,000                | 24,06,200                              |
| 7.    | Promotion of High Value-Low volume crops based enterprises in Higher Himalayas of Uttarakhand                                                                                                                | Sh. B.M. Kandpal<br>Society for Integrated Management of All Resources Village- Haat Kalyani, Post Office: Dewal Uttarakhand                                                              | 27,94,200                | 9,31,400                               |

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|--------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| 8.           | Restoration of Ecosystem Services by Community Involvement in Rudrasagar Lake of Tripura | Dr. Sourabh Deb<br>Department of Forestry and Biodiversity Tripura University,<br>Suryamaninagar,<br>West Tripura, Tripura<br>799022 | 24,47,200          | 8,72,200           |
| <b>Total</b> |                                                                                          |                                                                                                                                      | <b>2,60,77,550</b> | <b>1,14,16,800</b> |

## 2. SG Projects Approved for Financial Year 2015–16

| S.No. | Project Title                                                                                                                                                                    | Project Proponent                                                                                                                                                                                            | Total Grants (in Rs.) | 1 <sup>st</sup> Installment (in Rs) |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------|
| 1.    | Geomorphic characterization of flash floods and mass wasting in upper Ganga terrain of Garhwal Himalaya: role of climate - tectonic interaction in gradation processes"          | Dr. A.K. Pandey, CSIR, National Geophysical Research Institute Uppal Road, Hyderabad                                                                                                                         | 49,20,000             | 25,72,400                           |
| 2.    | Development of psychrophilic earthworms for bio-waste conversion in Guraj and Tulail valleys of Jammu & Kashmir                                                                  | Dr. Tahir Ahmad Sheikh, Assistant professor (Agronomy), Chief Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Shalimar, Srinagar, J&K                                          | 14,40,000             | 4,79,000                            |
| 3.    | Identification, assessment and enhancement of soil carbon and nitrogen sequestration potential of different ecosystems in the central Himalayan through a participatory approach | Shri. V.S. Meena, Scientist (Soil Science), ICAR-VPKAS, Almora, Uttarakhand                                                                                                                                  | 33,46,000             | 12,29,000                           |
| 4.    | Conservation strategies for Taxus wallichiana and Ulmus wallichiana by DNA markers and geospatial technology                                                                     | Dr. Pankaj Bhardwaj, Centre for Plant Sciences, Central University of Punjab Mansa Road, Bathinda, Punjab                                                                                                    | 34,94,600             | 17,60,000                           |
| 5.    | Fish Faunal Diversity, Habitat Ecology and their Conservation strategies of the Kameng River system in Arunachal Pradesh                                                         | Dr. Dandadhar Sarma, Associate Professor, Department of Zoology, Gauhati University, Guwahati, Assam<br>Dr. Dandadhar Sarma, Associate Professor, Department of Zoology, Gauhati University, Guwahati, Assam | 24,66,750             | 10,80,400                           |
| 6.    | Population dynamics and Biogeography of Himalayan Mouse-Hare Ochotona roylei in relation to their impact on the medicinal flora of Western Himalaya                              | Prof. S.N. Bahuguna, Department of Zoology & Biotechnology, H.N.B Garhwal University, Srinagar-Garhwal, Uttarakhand                                                                                          | 26,54,200             | 12,47,200                           |

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|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| 7.           | Survey and Mapping of Medicinal and Aromatic Plants (MAPS) and other RET/NTFPs on alpine regions of Uttarakhand and developing Uttarakhand-Alpine Information System (UK-AIS)                               | Dr. Gajendra Singh, Uttarakhand Space Application Centre, Dehradun, UK                                                                                                  | 36,50,400          | 19,60,800          |
| 8.           | Understanding the degradation and loss of primary forest in the Teesta valley of the Sikkim Himalaya: a framework for recovery and management of biodiversity and bioresources                              | Dr. Robert Jhon Chandran, Indian Institute of Science Education and Research, Kolkata (WB)                                                                              | 23,11,200          | 8,31,500           |
| 9.           | Post-Fire Management in the Pine Forests of Indian Himalayan Region By studying, conserving and distributing cultivable microbial biota to increase ecological succession and to revive forest productivity | Prof. Adesh K Saini, Center of Himalayan Research on Himalayan Sustainability and Development, Shoolini university of Biotechnology and Management Sciences, Solan (HP) | 40,26,000          | 21,61,200          |
| 10.          | Drinking Water Security for Rural Areas in Uttarakhand Himalayas by Riverbank Filtration, Robust Disinfection Systems and Community Participation                                                           | Er. P.S. Patwal Cooperation Centre for Riverbank Filtration (CCRBF), Dehradun.                                                                                          | 49,90,200          | 24,12,000          |
| 11.          | Vegetation heterogeneity and impacts of changing climatic and land use patterns on two contrasting timberline ecotones of Upper Chenab catchment, J & K and conservation strategies thereof                 | Prof. Anil K Raina, Professor and Head, Department of Environmental Sciences, University of Jammu, Baba Saheb Ambedkar Road, New University Campus Jammu (J&K)          | 25,21,400          | 11,42,800          |
| <b>Total</b> |                                                                                                                                                                                                             |                                                                                                                                                                         | <b>3,58,20,750</b> | <b>1,68,76,300</b> |