

# CSIR-4PI PROJECTS: ongoing

| <b>GRANT IN AID PROJECTS (GAP)</b> |              |  |  |                                |   |
|------------------------------------|--------------|--|--|--------------------------------|---|
| SL. NO                             | PROJECT CODE | TITLE OF THE PROJECT   | NAME OF THE AGENCY   | COST OF THE PROJECT (in Lakhs) | PROJECT DURATION                                |
| 1                                  | GAP1009      | National carbonaceous aerosols programme (NCAP): Working Group III - Carbonaceous aerosols emissions, source appointment and climate effects   | Ministry of Environment, Forest & Climate Change (MoEFCC) GOI.                                   | ₹117.012 Lakhs                 | 01/04/2017 To 31/03/2022                        |
| 2                                  | GAP1010      | Geological characterization of the Kashmir valley with the objective of quantifying probabilistic hazard and risk in the high-risk areas of the valley using a logically integrated set of geo-scientific investigation                      | Department of Earth Science, GOI   | ₹100.89 Lakhs                  | 29/03/2016 To 28/03/2019 Extended To 31/03/2021 |
| 3                                  | GAP1011      | 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 | Ministry of Environment, Forest & Climate Change (MoEFCC) GOI                                    | ₹131.103 Lakhs                 | 28/03/2018 To 31/03/2021 Extended To 28/12/2021 |
| 4                                  | GAP1012      | 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  | Ministry of Environment, Forest & Climate Change (MoEFCC) GoI.                                   | ₹94.57 Lakhs                   | 01/06/2018 To 31/05/2021 Extended To 31/12/2021 |
| 5                                  | GAP1013      | Improving the prediction of the extremes of the interannual variation of the Indian Summer Monsoon Rainfall (ISMR) by CFSv2  | Indian Institute of Tropical Meteorology, Pune, Ministry of Earth Science                        | ₹18.79 Lakhs                   | 01/9/2018 To 31/08/2021                         |
| 6                                  | GAP1014      | Hyperspectral imaging for sharper definitions of Himalayan ecosystems and its high value plant species under climate uncertainties   | Banaras Hindu University, Varanasi Funding from Ministry of Environment, Forest & Climate Change | ₹15.506 Lakhs                  | 27/12/2018 To 26/12/2021                        |
| 7                                  | GAP1015      | Analysis of urban 'heat islands', air pollution dynamics and extreme heat wave phenomena in India and Russia   | Department of Science & Technology.  | ₹24.052 Lakhs                  | 14/02/2019 To 13/02/2021                        |

|    |         |  |   |               | Extended To<br>01/07/2021 |
|----|---------|--|---|---------------|---------------------------|
| 8  | GAP1016 | Assessment of regional hydrology using space borne gravity observations: Robust estimation of deformation due to hydrological loading in NE-India and Upper Ganga river basin.                                       | Department of Science & Technology  | ₹19.118 Lakhs | 27/05/2019 To 26/05/2022  |
| 9  | GAP1017 | Developing a Public Health Informatics Platform in India for a systems View of Health and Diseases” under Epidemiology Data Analytics (EDA) of Interdisciplinary Cyber Physical Systems (ICPS) Programme of DST, GoI | Department of Science & Technology  | ₹57.42 Lakhs  | 17/05/2019 To 16/05/2022  |
| 10 | GAP1018 | A Darknet/Network Telescope Based Cyber Security Monitoring and Inference Framework  | Ministry of Electronics and Information Technology  | ₹49.98 Lakhs  | 16/07/2019 To 15/07/2021  |
| 11 | GAP1019 | Feasibility Evaluation, Impact Quantification and Mitigation of Low-Rate Cyber Attacks on Multipath Transmission Control Protocol (MPTCP)  | Department of Science & Technology  | ₹46.943 Lakhs | 07/08/2019 To 06/08/2022  |
| 12 | GAP1020 | Modelling and Forecasting of High Impact Weather Events in the Beas basin, and Designing a Proto-type Advance Warning System for Mitigating their Adverse Impacts  | Ministry of Environment, Forest & Climate Change (MoEFCC), Government of India                      | ₹97.79 Lakhs  | 20/01/2020 To 19/01/2023  |
| 13 | GAP1021 | Design Intervention Strategies for Mitigating the Impacts of heat waves through modified land cover  | Department of Science & Technology  | ₹15.80 Lakhs  | 16/12/2019 To 16/12/2022  |
| 14 | GAP1022 | Quantification of past changes and assessment of present status of water bodies distribution over Bangalore.   | CSIR-National Environmental Engineering Research Institute, Nehru Marg, Nagpur 440020 (Maharashtra) | ₹15.486 Lakhs | 07/02/2020 To 06/02/2021  |
| 15 | GAP1023 | Influence of Upper Ocean Physical Processes on the Oxygen and Nutrient Variability in the North Indian Ocean using eddy permitting coupled ecosystem model of the global Ocean                                       | Women Scientist Scheme A(WOS-A) Department of Science & Technology                                  | ₹27.488 Lakhs | 23/11/2020 To 22/11/2023  |

### CSIR FUNDED PROJECTS

| SL. NO. | PROJECT CODE | TITLE OF THE PROJECT  | NAME OF THE AGENCY          | COST OF THE PROJECT (in Lakhs) | PROJECT DURATION         |
|---------|--------------|---|-----------------------------|--------------------------------|--------------------------|
| 1       | CSIR YSA1001 | Assessment and forecasting of extreme weather events over the Indian region using Mesoscale Model   | CSIR Young Scientist Scheme | ₹25.00 Lakhs                   | 01/04/2017 To 31/03/2022 |
| 2       | MLP1003      | Integration of GNSS and Broadband data for high resolution velocity structure and crustal deformation in Jammu, Kashmir and Ladakh Himalaya (IGBHK) | CSIR funded projects        | ₹ 350.00 Lakhs                 | 09/02/2021 To 31/03/2023 |
| 3       | MLP1004      | Development of a modelling platform for Hydro-Meteorological Disaster early Warning System for major metro cities in India (HDWS)                   | CSIR funded projects        | ₹ 69.85 Lakhs                  | 09/02/2021 To 31/03/2023 |
| 4       | MLP1005      | Setting up of CSIR HPC, AI & ML Platform (CHAMP)  | CSIR funded projects        | ₹ 5000.00 Lakhs                | 15/01/2021 To 31/03/2022 |

### COLLABORATIVE PROJECTS

| SL. NO. | PROJECT CODE   | TITLE OF THE PROJECT                                       | NAME OF THE AGENCY         | COST OF THE PROJECT (in Lakhs) | PROJECT DURATION                               |
|---------|----------------|--|----------------------------|--------------------------------|--|
| 1       | CSIR NEERI 001 | Climate change for Patna and its Agglomeration (NEERI 001) | CSIR Collaboration Project | ₹5.00 Lakhs                    | 3/09/2018 To 31/12/2020 EXTENDED To 30/06/2021 |

### SPONSORED PROJECTS

| SL. NO. | PROJECT CODE | TITLE OF THE PROJECT  | NAME OF THE AGENCY             | COST OF THE PROJECT (in Lakhs) | PROJECT DURATION        |
|---------|--------------|---|--------------------------------|--------------------------------|-------------------------|
| 1       | SSP-1001     | Detection and Migration of Cyber-attack in Vehicular Ad-hoc Networks (VANETs) (Sponsored Scientific Project-1001) | Cognizant Technology Solutions | ₹30.00 Lakhs                   | 1/04/2019 To 31/03/2022 |