

**UTTARAKHAND STATE COUNCIL FOR SCIENCE & TECHNOLOGY**  
**DEPARTMENT OF SCIENCE & TECHNOLOGY, GOVERNMENT OF UTTARAKHAND**  
VIGYAN DHAM Jhajra Premnagar Dehradun  
Website : [www.ucost.in](http://www.ucost.in)

**U-COST Sponsored R&D Projects - 2007-2008**

SlNo	P.I. name & Address	Project title	Total Amount Sanctioned (in Rs)
1	<b>Dr A.A. Kazmi</b> Assistant Professor Dept of Civil Engineering (Environment Division) IIT Roorkee Roorkee	Enhanced coil forms removal in sequencing batch reactor (SBR) activated sludge process	731,550
2	<b>Dr A.K. Biyani</b> Reader Dept. of Geology D.B.S. (PG) College Dehradun	Microzonation and Geotechnical Appraisal and Remedial Suggestions for Landslide Zones on Rishikesh-Neelkanh-Diuli Area of Pauri Garhwal District, Uttarakhand	704,900
3	<b>Dr Amit Pandey</b> Scientist 'E' Forest Pathology Division Forest Research Institute PO- New Forest Dehradun	Molecular variability in Cordyceps sinensis isolates of Uttarakhand	605,440
4	<b>Dr Anand B. Melkani</b> Reader, Dept of Chemistry Kumaun University Nainital	Investigation of terpenoid composition and antimicrobial activity of some medicinal and aromatic plants of family lamiaceae	699,000
5	<b>Dr Aradhan</b> Senior Lecturer Dept. of Biotechnology S.B.S. (PG) Institute of Biomedical Sciences and	Assessment of seed components and genetic polymorphism of Phaseolus vulgaris in Uttarakhand	792,100

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	Research Balawala Dehradun		
6	<b>Dr Archana Joshi Bachheti</b> Deptt. of Environmental Science Graphic Era Institute of Technology, 566/6 Bell Road, Clement Town, Dehradun	Study on seed oil content variation and physico-chemical properties of <i>Jatropha curcus</i> in different parts of Uttarakhand, India	567,000
7	<b>Dr Arun K. Agarwal</b> Lecturer Dept of Botany Govt. P.G. College Uttarkashi	Technological empowerment for segregation of races and post harvest handling of pulses growing at Uttarkashi district of Uttarakhand	530,000
8	<b>Dr D.S. Negi</b> Reader Dept. of Chemistry HNB Garhwal University Srinagar	Investigation of Selected Verbenaceae Plants for Insecticidal and Antifeedant Constituents".	1,120,050
9	<b>Dr Deepak Pant</b> Assistant Professor Department of Pharmaceutical Chemistry Dolphin (PG) Institute of Bio-medical & natural sciences Manduwala Dehradun	Utilisation of glass waste for the degradation of waste plastic	709,000

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<b>10</b>	<b>Dr G.L. Shah</b> Dept of Geography Kumaun University Nainital	Hazard zonation mapping and forest fire risk modeling in Bageshwar district of Uttarakhand	903,400
<b>11</b>	<b>Dr K.P. Singh</b> Associate Professor Department of Biophysics C.B.S. & H, G.B. Pant University of Agriculture and Technology Pantnagar	Devising and integrated apple disease management programme through the use of antagonists, need based fungicides and advisory services in Uttarakhand hills	495,300
<b>12</b>	<b>Dr Kailash C. Petwal</b> Lecturer in Mathematics Dept of Mathematics HNB Garhwal University Campus Badshahi Thaul Tehri Garhwal	The Study of subnifolds in conformal & Pseudo conformal spaces	341,876
<b>13</b>	<b>Dr L.P. Singh</b> Scientist Central Building Research Institute (CBRI) Roorkee	Synthesis and characterization of Nano Silica and its subsequent use in Calcium-Silicate-Hydrate systems	829,000
<b>14</b>	<b>Dr M.S. Bisht</b> Reader Dept. of Zoology HNB University Campus Pauri	Management of Chukar Partridge in Garhwal Himalaya: Status, Distribution, Ecology and Behaviour	691,430
<b>15</b>	<b>Dr Manju Prakash Gusain</b> Reader Dept of Zoology	The influence of land use on benthic macroinvertebrate communities of Alaknanda river catchment in Garhwal Himalaya	669,061

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	HNB Garhwal University PO Box- 60 Srinagar		
<b>16</b>	<b>Dr Manjul Dhiman</b> Head Dept of Botany K.L.D.A.V. P.G. College, Roorkee	Field establishment of in-vitro raised plants of Ephedra Gerardiana	1,092,800
<b>17</b>	<b>Dr Mohan Singh Panwar</b> Dept. of Geography PO Box-44 HNB Garhwal University Central Campus Srinagar	Natural Resource Management for Integrated Development Planning in the Rim Area of Tehri Dam Reservoir (Villages of Pratapnagar Block in District Tehri Garhwal	562,650
<b>18</b>	<b>Dr N.A. Siddiqui</b> Senior Lecturer Deptt. Of Health, Safety and Environment University of Petroleum & Energy Studies Via Premnagar Dehradun	Environment impact assessment of Dehradun city	357,500
<b>19</b>	<b>Dr N.S.K. Harsh</b> Forest Pathology Division Forest Research Institute PO- New Forest Dehradun	Management of fungal deterioration of medicinal plant produce in storage by the use of botanical fungi toxicants	568,400
<b>20</b>	<b>Dr Navneet Kumar</b> Head of Department Dept of Biochemistry Doon (PG) Paramedical College & Hospital	Effect of in-vitro treatment with catechnins and capsaicinon Lipid-Per-Oxidation and Anti-Oxidant status of patient with essential hypertension compared to healthy subjects in Dehradun	198,000

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28 Chakrata Road Dehradun			
<b>21</b>	<b>Dr P.C. Joshi</b> Reader Zoology & Environmental Sciences, Gurukul Kangri University Hardwar	Status of insect pollinators in the orchards of apple, peach, pears and citrus in Mukteshwar area of district Nainital	688,400
<b>22</b>	<b>Dr Priyanka Sagar</b> Department of Chemistry Kumaun University Nainital	Catalytic hydrogenation of organic substrates by using ZSM-5 anchored Pd (II) complexes	511,900
<b>23</b>	<b>Dr R.K. Upadhyay</b> Senior Lecturer Deptt of Physics Pt. Lalit Mohan Sharma Govt. P.G. College Rishikesh	Development of Acoustically Rich Speech Corpus for Garhwali Hindi Dialect of Uttarakhand	773,100
<b>24</b>	<b>Dr S.K. Gupta</b> Reader Dept of Zoology D.B.S. (PG) College Dehradun	A comparative study of biotic diversity in the streams of eastern and western Doon with special reference to the ichthyofaunal status	473,520
<b>25</b>	<b>Dr S.P. Singh</b> Reader Dept of Zoology DBS (PG) College Dehradun	Antifertility and folklore studies on some Uttarakhand plants in animals for development of herbal contraceptive drug	269,000
<b>26</b>	<b>Dr S.R. Verma</b> Reader Department of Physics	Role of magnetic carpet in coronal heating	248,100

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	D.B.S (P.G.) College Dehradun		
<b>27</b>	<b>Dr Sadhna Tripathi</b> Scientist E Wood Preservation Discipline Forest Products Division Forest Research Institute Dehradun	Evaluation of Neem based formulations for wood and bamboo protection	530,000
<b>28</b>	<b>Dr Shah Raj Ali</b> Dept of Chemistry DSB Campus Kumaun University Nainital	Synthesis, characterization and catalytic activities of nano-sized double metal cyanide complexes	734,000
<b>29</b>	<b>Dr Shamila Kalia</b> Scientist 'E' Forest Extension Division Forest Research Institute PO- New Forest Dehradun	Faunistic survey and assessment of entomofaunal diversity of commercially important medicinal plants of Uttarakhand	0
<b>30</b>	<b>Dr Uma Melkania</b> Professor & Head Dept. of Environmental Science G.B. Pant University of Agriculture and Technology Pantnagar	Carbon Sequestration Studies and Capacity Building in Forest and Agricultural Systems of Central Himalayan Region of India	777,650
<b>31</b>	<b>Dr Veena Pandey</b> Head Dept of Biotechnology Kumaun University	Effect of ectomycorrhizal fungal diversity and composition on growth of Quercus Leucotricophora and Pinus Roxburghii seedlings, the principle forest species of	648,000



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Nainital		Uttarakhand	
<b>32</b>	<b>Dr Vikash Singh Jadon</b> Lecturer Deptt of Biotechnology S.B.S. (PG) Institute of Biomedical Sciences and Research Balawala Dehradun	In vitro rapid mass multiplication and germplasm conservation of some medicinal plants	875,000
<b>33</b>	<b>Dr Vineeta Gupta</b> Professor & Head Obstetrics & Gynaecology SGRR Institute of Medical & Health Sciences Patel Nagar Dehradun	Correlation among PAP Smear, Colposcopy, Human Papilloma virus DNA Detection and Histopathological Examination in patients with cervical intraepithelial Neoplasia (CIN) and Chronic cervicitis	538,500
<b>34</b>	<b>Dr. R.M. Saxena</b> Head Department of Zoology D.A.V (P.G.) College Dehradun	Fish trematode Diversity in water bodies of Dehradun.	473,600
<b>35</b>	<b>Dr. Tapan K. Nailwal</b> Lecturer Dept of Biotechnology Kumaun University Nainital	In-vitro micropropagation of meizotropis pelita Wall. Ex Hook, F & Grev. (Vern., Patwa) a very rare, endangered & endemic plant of Patwadanger, Nainital	651,000
<b>36</b>	<b>Lt. (Dr) Balvinder Singh</b> Senior Lecturer Department of Biochemistry SBS (PG) Institute of Biomedical Sciences and	Bioprospecting for novel antimicrobials and industrially important enzymes from microbial isolates in Uttarakhand Himalaya	1,099,800

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<b>37</b>	<b>Mrs Prabha Bisht</b> Scientist 'B' Tissue Culture Botany Division Forest Research Institute Dehradun	Development of micro propagation technique for economically important bamboos: dendrocalamus hamiltonii (maggar bamboo) and gigantochloa atter (black bamboo)	685,700
<b>38</b>	<b>Ms Chetna Bisht</b> Research Fellow HAPPRC HNB Garhwal University Srinagar	Micro propagation and conservation of some medicinally important endangered orchids of Uttarakhand Garhwal hills	412,000
<b>39</b>	<b>Sh Chandra Singh Negi</b> Lecturer Dept. of Zoology L.S.M. Government (PG) College Pithoragarh	Conserving the Sacred-Ethno Biological Study into the Relationships Between Culture And Biodiversity	501,030