

## Dr. LEENA GUPTA

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HABITAT ECOLOGICAL TRUST

Reg. No: F/4612/MAHESANA

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With over Twenty-Three years of dynamic experience in Field Research & Development across Conservation, Education, Health, and Climate Resilience, I bring a proven track record in spearheading impactful initiatives. My expertise spans Project Development, Evaluation, Coordination, and adept Liaisoning with diverse stakeholders including Government Departments, National & International NGOs, CBOs, and Universities.

As a Core Committee Member of the Madhya Pradesh State Biodiversity Board, Govt of Madhya Pradesh, technical expert with National Biodiversity Authority (NBA), Govt of India and a Representative in prominent global platforms such as UNCBD, UNFCCC and UNCCD, I have actively contributed to shaping policies and strategies at regional, national and international levels.

### My accomplishments include:

- ✓ Conducting Action Research encompassing ecological assessment, biodiversity conservation, and ecorestoration initiatives such as rejuvenating Pasture lands, Wastelands, and Grasslands, while effectively managing and developing them.
- ✓ Pioneering the creation of People's Biodiversity Register & CFR to foster community participation in biodiversity conservation and management, addressing traditional knowledge and livelihood issues.
- ✓ Championing Food & Nutrition security through the utilization of Indigenous Biodiversity (wild edible plants) and promoting nutrition-sensitive ecological farming practices.
- ✓ Leveraging expertise in Applied Plant Taxonomy, ecological indicators, ecosystems assessment, and Climate Change to devise sustainable solutions.
- ✓ Undertaking comprehensive Natural Resource Management studies, including conflict resolution in Protected Areas & Wildlife Sanctuaries, Mangrove and Marine biodiversity assessment.
- ✓ Leading initiatives in Medicinal plants-Natural products, biodiversity heritage site preservation, and authentic Ayurvedic practices.
- ✓ Proficient in GIS-RS & Resource Mapping, with significant contributions to herbarium development & management and landscape architecture for Arboretum development.
- ✓ Expertise in conducting Environment Impact Assessments for Clean Development Mechanism projects (Windmills, Solar, Hydro) to ensure sustainable development practices.
- ✓ Innovating Cow Tourism initiatives for fostering sustainable ecology and economy, alongside efforts in Pasture biodiversity & indigenous Cow conservation.

### Distinguished Awards:

- **Global Ambassador for World Peace**- Feb 2024 (by Global Award & Recognition Council)
- **Bharat Bhushan Award**- Aug 2023 for holistic Ayurved research & Healthy Food (by International Therapist & Researchers' Association)

- **Savitribai Phule Rashtriya Manavata Samman Award** – Dec 2022 for Outstanding Achievements in Social Ecology, Conservation, Education and Health. (by Sewadham, Madhya Pradesh)
- **Certificate of Excellence-** 2023 for Indigenous Cow breed conservation based Tourism model development for Genetic diversity conservation & sustainable economy (by Global Confederation of Cow based Industries GCCI)
- **Certificate of Appreciation-** Dec 2023 for Integrated Ecosystem Restoration, Educational research and Science popularization (by Vigyan Bharati & Govt of India)

### **Prestigious Grants & Fellowships:**

- International Conservation Grant by IFA, America (from 2018 to Present, with six extensions granted based on excellent research outcomes.)
- Indigenous Terra Madre, Italy by the Slow Food International, Italy (2016) for role of Indigenous Biodiversity in Global Food & Nutrition Security.
- International Degrowth convention @ Germany & Global Food & Nutrition Security Research conferences in European countries (Finland, Scotland, Germany). By The Ministry of Foreign Affairs, Govt. of Finland (2014)
- Environment Education Programme – Ecology, Food & nutrition security, biodiversity, medicinal plants. By Society for Promotion of Wastelands Development (SPWD), India (2009-2012)
- Research fellowship from Ministry of Environment and Forests (MoEF), New Delhi, India (2001-2004)

### **Academic Qualification:**

**Ph.D.** in Ecology & Ethnobiology, Bhavnagar University, Bhavnagar, India. 2004.

**MSc.** in Research Methodology (Ecology, Biotechnology, Research Methodology, GIS-RS), Gujarat University, Ahmedabad, India. 2000

**BSc.** Botany (Plant taxonomy, Ecology), North Gujarat University, India. 1998

**DCA** (Diploma in Computer Application) SPCTC, Visnagar, India. 1997

### **Global & National Memberships:**

- Member of Slow Food International, Terra Madre Italy
- Member of International Union for Conservation of Nature- IUCN Red List of Ecosystems
- Member of IUCN World Commission on Environmental Laws
- Member of IUCN Environmental Education
- Member of The International Association of Ecology (INTECOL)
- Member of The Desert Biodiversity Conservation expert's group, India
- Member of The International Society of Zoological Sciences
- Member of The International Sea Turtle Society
- Member of Climate Change Network- Zoo Outreach Organization

### **Research & Publication:**

- Author of over 79 scientific research papers and 124 technical research reports, training modules, and frameworks published.

- Consistently contributed scientific findings to reputable organizations such as INTECOL, IUCN, UNFCCC, UNCBD, and Carbon Market Watch.

### **Articles:**

Published numerous articles addressing the significance of medicinal plants, plant genetic resources, ecosystem services, indigenous seeds, wild edible plants, and environmental education, aimed at raising awareness through newsletters.

### **Symposia/ Seminars/ Workshops attended/ participated:**

Engaged in over 1000 national and international events covering a diverse range of themes, including UNCBD COP, International Terra Madre, DeGrowth, Biodiversity Conservation, Ecosystem Restoration, Virtual Herbarium Management, Plant Genetic Resources & Seedbank, Agroforestry & Ecological Farming, Natural Resource Conservation & Management, Community-Based Production Units development, Ayurvedic Research, Food & Nutrition Security, Climate Crisis Mitigation & Resilience, Carbon Market, Science Education, Forest Conservation & Community Forest Rights, Professional Wildlife Photography & Documentary creation, Teachers' Training For Scientific Research-Based Education and Cow-Tourism, among others.



Leena Gupta

(For more detailed information, please refer to the following pages)

## Current Engagements:

- Managing Director & Chief Senior Scientist: HABITAT Ecological Trust (Habitat Ecological Research & Development Institute)
- Technical Expert Core Committee Member, Madhya Pradesh State Biodiversity Board (MPSBB)
- Chief Senior scientist: WCMC-UNEP, Western India Ecosystem Assessment (Sariska Tiger Reserve, Bharatpur Bird Sanctuary, Kailadevi Wildlife Sanctuary, Mandrail Alligator Sanctuary)
- Technical Expert: Gauseva & Gauchar Vikas Board (Grassland Development Board), Govt of Gujarat
- Technical Expert: Clean Development Mechanism forum (Impact Assessment)
- Chief Coordinator: Children's Ecological & Environmental Rights (Children's scientific committees, research programmes with children, Young Scientist programmes with AAJ & Govt Schools of Gujarat)
- Independent Researcher: Forest Rights Act (CFR), Biological Diversity Act (BMC & PBR)

## Research Engagements

- **Independent Scientist (November 2015 onwards)**
  - 1) Ecorestoration of degraded hills (2400 Hectare) in Uttarakhand for conservation of rare & endangered biodiversity with special focus on conservation-protection of Badri Cow Breed of Himalaya.
  - 2) Ecorestoration of 22029 Hectare open village lands in Chhota Udepur District of Gujarat State.
  - 3) Conservation of rare & endangered biodiversity including Genetic diversity & Millets.
  - 4) Glacier Ecology & Trans Boundary research in Himalaya to assess changes in Glacier Ecology to understand its impacts on overall ecosystems and biodiversity of Himalayas.
  - 5) Formation of BMC & field assessment to prepare PBR as an ecologically sound tool for CFR. (Kawant tribal region of Chhota Udepur dist. (Supported by RRI Washington & local community)
  - 6) Traditional knowledge documentation of Chhota Udepur tribal region for participatory assessment of major NTFPs, rare, endangered and invasive species in the region.
  - 7) Illegal trade (over exploitation) study and its impacts on important flora & fauna in Mount Abu WLS, Chhota Udepur, Southern Aravalli corridors of BK and SK districts
  - 8) Impacts of Land use change and land regularization on local ecology and forest wealth in Chhota Udepur.
  - 9) Conflict issues around Sea Turtles and Mangrove biodiversity of Gujarat Coast
  - 10) GIS domain database creation of RET & Invasive species of Gujarat (based on field data of last 16 years)
  - 11) "Prakriti Media Shala", Science Centre Gwalior, Bhopal. Funded by DST, Govt of India
  - 12) "YASH-21" Manual development for 'Year of Awareness for Science & Health (YASH), Science Centre Gwalior, Bhopal. Funded by DST, Govt of India
  - 13) Development of "Eco Eureka Kit", Science Centre Gwalior, Bhopal. Funded by DST, Govt of India
- **Chief Senior Scientist (Senior Programme Coordinator) (April 2012 – October 2015):**
  - 1) Wastelands development for Pasture resources and local livelihoods enhancement

- 2) SGA: Adaptation to change in Interlinked Cultivated and Wetland Ecosystems: A study in Western India.
- 3) Impacts of Forest Rights Act implementation on Ecology and socio-economic aspects (Gujarat); Forestry and CDM issues (Windmills impacts on ecology & biodiversity) of Kalpavalli Forest area of Andhra Pradesh; EIA & SIA of Wind farm project in Andhra Pradesh; Biodiversity assessment; BMC formation, trainings & PBR trainings; Resource mapping; affected area map development and analysis.
- 4) Role of medicinal plants, wild edibles and NTFPs in community forest rights; primary database creation for ecological modeling; People's Biodiversity Register (implementation of BD Act).
- 5) Environment Education Programme for outreach of ground research among the local community (organic farming, medicinal plants, NTFPs, Wild edible recipes, FRA & changing land use analysis, mining issues, CDM issues, ecological indicators, invasive species, etc.) in 5 states.

- **Senior Scientist (Senior Programme Officer)** (1Mar 2011-31 March 2012):

Land-grabbing issues study in Kalpavalli forest area (forestry, Windmills & CDM) of Andhra Pradesh and Surat coast-line (SEZ, Port) area; Environment Education Programme. SPWD, New Delhi

- **Project coordinator** “Environment Education Programme” in the tribal area of Udaipur district; Participatory Medicinal plants and NTFP assessments. Funded by SPWD, New Delhi. (2011-2012)
- **Independent Research:** “Study on impact of desertification and climate change on biodiversity and livelihoods in the Aravalli region of North Gujarat” partially supported by Saptarishi Ayurveda Research Centre (SARC) and Gujarat Forest Dept-Banaskantha Div. (2008-2011)
- **Consultant Scientist** “Study on Implication of Forest Rights Act (FRA) in the context of sustainability of the forest resources on one hand and right of the individuals and communities under the act on the other, special reference t
- o the implementation of Community rights” Funded by SPWD, New Delhi. (2009-10)
- **Consultant Scientist** “Scientific study on Forest Rights Act (FRA) and Biodiversity conservation in Gujarat and Rajasthan”. Society for Promotion of Wastelands Development (SPWD), New Delhi, India. (2009- 2010)
- **Consultant Scientist** “Biodiversity assessment in the context of climate change in Central Aravalli region – Ajmer, with special emphasis on ecological assessment, biodiversity conservation, ecological indicators, *Prosopis juliflora* invasion & its potential alternatives”. Society for Promotion of Wastelands Development (SPWD), New Delhi, India. (2009-2010)
- **Consultant Scientist** “Survey of Minor Forest Products (MFPs) medicinal plants situation in Rajasthan and adjoining States”. Samarthak Samiti, Udaipur, India (2009-2010)
- **Consultant Scientist** “NTFP and Livelihood enhancement”, Samarthak Samiti. (2009).
- **Project Officer** (2006-2009):
  - 1) “Natural Resource Management & Biodiversity Conservation; Ecological profile of Southern Rajasthan, Ecological Indicators (Flora & Fauna)” Foundation for Ecological Security, India.
  - 2) Ecological indicators, Ecosystem assessment, Ecoservice assessment, Ecological audit
  - 3) Landscape level Ecorestoration, Nursery techniques, Nursery trainings

- 4) **Research Coordinator & Scientist**, “People’s Biodiversity Register- A tool for Biodiversity conservation”, Foundation for Ecological Security, India (2006 – 2009)
- **Principal Investigator:**
    - 1) “Plantation & conservation of some important Medicinal plants under an inadequate conditions-average soil & salty water”, Kachchh Ecological Research Centre (KEREC), The Corbett Foundation, Kachchh, Gujarat, India (2005 – 2006)
    - 2) **Programme Coordinator**, “Health programme in rural area” KEREC, Kachchh, Gujarat, India (2005 – 2006)
  - **Research Coordinator**, "Integrated Lakhpatt Development Project – Medicinal plants and sustainable health”, Shrujan Trust, Kachchh, India (2004 – 2005).
  - **Project Co-Investigator**
    - 1) "Medicinal plants of Gujarat: Zone- VI Kachchh district”, Sponsored by Gujarat State Forest Dept: Gujarat Institute of Desert Ecology, Kachchh, Gujarat, India (2001-2002).
    - 2) **Research Fellow**, “A study on traditional knowledge of ethnobotanical resources of district Kachchh: An approach to the natural resource conservation through creation of Ethnobotanical Database”, Gujarat Institute of Desert Ecology, Kachchh, Gujarat, India (inc. all WLS of Kachchh district) (2001-2004).
    - 3) Research Fellow, “Mangrove restoration through community participation”, “Environment Impact Assessment (EIA)” “Creek ecosystem” Gujarat Institute of Desert Ecology, Kachchh, Gujarat, India (2002-2004)
    - 4) Research Fellow, “National Biodiversity Strategies and Action Plan (NBSAP) -Kachchh Sub-State”, Gujarat Institute of Desert Ecology, Kachchh, Gujarat, India (2001-2002)
  - **Project Assistant:**
    - 1) “Community mobilization, JFM & CPR issue based participatory approach”, Joint Forest Management (JFM) Cell, GEER Foundation, Gandhinagar, Gujarat, India (2000-2001)

## Professional Experience:

### Training Focus:

- Capacity building and training for preparation of People’s Biodiversity Register for implementation of Biodiversity Act
- Participatory Wastelands & Grassland development and management
- Participatory Watershed development and management
- Conducting Environment Education Programmes and campaigns with different stakeholder groups including Children, Women, farmers, forest dwellers, fishermen, etc. through different scientific **phase-modules** for participatory biodiversity conservation in rural and urban areas.
- Research training (plant & seed collections, Seed ball making, herbarium process, Xylarium process, transects, monoliths, seed bank, children’s own books (Kid’s Biodiversity Library), GPS & mapping techniques, photography, clay modeling, etc. to local children, youth, women & others to develop Para researchers team at local level
- **Forest food festivals:** part of PBR to document wild edible plants & related traditional knowledge wisdom, mass awareness festivals in cities and Metros to promote Urban biodiversity conservation

- **Ayurveda-health-food:** Continuous campaigns and seminars on the healthy & Nutritive foods
- **Food workshops:** Traditional food, wild edible plants based foods, Ayurved concept based foods for sustainable health and nature conservation
- **Food & Nutrition:** Impacts of junk, preservative, fast foods and promotion of traditional recipes
- Nursery techniques: Training module development, identification of Plus Tree traits for seed collection, regeneration, plantation (for cultivation and preservation of rare and threatened species)
- Training module on Natural resource development for Local Governance body
- Capacity building programme through different modules for conservation and plantation of important medicinal , economic (NTFPs) & rare plants (developing & conducting)
- Identification of local floral diversity, their uses & herbarium development trainings to local youth and NGO members under capacity building programme
- GIS: Resource mapping for natural resource management, Windmill project impact analysis

### **Ecology and Taxonomy:**

- Ecorestoration, Ecological nursery techniques
- Ecological audit, Ecological indicators, climate & ecological change
- Ecosystem services assessment- forest, wetland, coastal ecosystems
- Preparation of a ‘Conservation Management Plan’ for ecologically important plant species
- Ecological and taxonomical research in Gujarat, Rajasthan, Madhya Pradesh, Uttarakhand, Himachal Pradesh, Jammu & Kashmir, Punjab, Andhra Pradesh (Anantapur) and Karnataka (Bellary) in India.
- Ecological assessment of wild relatives and related taxa of cultivated plants in the forest areas of Kachchh, Vadodara of Gujarat State, Udaipur forests of Rajasthan, Kalpavalli forest of Andhra Pradesh
- Mangrove restoration & mangrove biodiversity assessment
- Ecological assessment of Invasive & Non Native Flora & Fauna
- First time reported **3 new plant species** from the arid ecosystem of Kachchh and **2 new plant species** from Aravallis of Gujarat.

### **Biodiversity Conservation:**

- Study & Assessment of Ecological indicators – Flora and Fauna
- Research and conservation plan of Community Conserved Areas (CCA) ... of Kalpavalli, Andhra Pradesh
- People’s Biodiversity Register and Biodiversity Heritage site research and policy level work - PBR of 2 Phases for Harikanthariya, Rajasthan, Phase 1 for Kalpavalli, Andhra Pradesh, Phase 1 for Chhotaudepur tribal region (ecologically sound PBR to protect forest wealth while implementing CFR in the region)

### **Medicinal and Economically Important Plants:**

- Medicinal plants conservation and Ayurveda
- Identification and population assessment of medicinal plants in wild areas of Gujarat and Rajasthan & Enlisted community participation in conservation management of medicinal plants
- Explored Medicinal plants for human and livestock health-support systems. Authenticated some novel practices at field and clinical level

- **Model:** Medicinal plants and sustainable health: natural product development at village level women group with the local traditional midwives for reproductive healthcare-especially the oral contraceptives, abortifecients & other gynecological ailments (Kachchh, India).

### **Wastelands & Pasture/ Grassland Development & Management:**

- Ecorestoration of Wastelands and village open pastures.
- Ecological development of Wastelands & Pasture development for Fodder & Food security
- Model Gau Van Vatika development at Chhogala, Gujarat
- Model development at Chhogala – Medicinal species and indigenous fodder species' ecological combination for health enhancement of soil, birds, Cows and baby animals.

### **Environment Impact Assessment (EIA):**

- Flora and Fauna assessment, resource mapping, report development

### **Sustainable Agriculture – Vaidik Krishi:**

- Indigenous Agro-diversity & sustainable livelihood, Threats analysis, Biomass assessment and applicability, biological pesticides, Agro ecosystem assessment, Indigenous Seed bank
- Work on Poor soil to convert in highly fertile soil with the help of Vaidik Krishi Science & Ecological elements (model work done at Chhogala, Gujarat)
- Food & nutrition security through wild edible plants and zero cost highly nutritive indigenous farming
- Kitchen farming, farming in Urbans.

### **Traditional Knowledge & Intellectual Property Rights:**

- Documentation, Research and validation of herbal formulas, IPR issues
- Sacred elements and related community rights

### **Food & Nutrition Security:**

- Wild foods- Forest foods workshops and festivals for wild edible plants conservation and food-nutrition security
- Traditional food workshops with tribal, rural and urban communities
- Mass awareness material development

### **Climate Change, Crisis, mitigation and challenges:**

The action research on Climate Change issue is based on four principles:

- 1) Reduce emission of Global house gases- provide Natural resources based alternatives
- 2) Carbon sequestration- to conserve/ enhance quality and quantity of GHG sinkers
- 3) To strengthen the efforts, to mitigate effects of climate change.
- 4) Conservation of biodiversity through restoration of local ecosystems and laying the guide lines for its sustainable use.

Based on these principles following research works going on in field (landscape level ecology):

- Changing climate and vegetation of Aravallis of Rajasthan and Gujarat

- Ecosystem assessment through ecological indicators to assess crisis and conflicts due to climate change
- Adaptation mitigation at community level to address the crisis and conflicts (Aravallis, Gujarat): sustainable Agriculture with very less carbon inputs (based on Vaidik Krishi & local ecological conditions), Silviculture ecorestoration, ecological elements for mitigation, mitigation options in Urban areas, sustainable animal husbandry & pasture economy, local biodiversity for Food & Nutrition security, livestock based energy generation & organic manure, Urban area Carbon sequestration practices
- Integrated Natural resource assessment and conservation (Aravallis, Kalpavalli region of Andhra)
- Indian Cows and Mitigation (Saurashtra & North Gujarat regions of Gujarat)
- Carbon footprint assessment of existing natural resources and impacts of climate change (Aravallis, South Gujarat)

## **Publications in National & International Journals & Bulletins: Selected Papers**

### **1. Leena Gupta**

Women's knowledge on plants-based traditional medicine for reproductive health care in district Kachchh, Gujarat, India. MFP News, Vol. XXIII, No.1, 2013.

### **2. Leena Gupta**

Wild edible plants of an arid region Kachchh, India: associated indigenous knowledge and implications to food security. Int. J. for Usuf. Mngt. 14 (1): 51-58 (2013)

### **3. Gupta Leena, Silori C. S., Mistry N.R., Dixit, A.M.**

Use of animals and animal products in traditional health-care systems in District Kachchh, Gujarat. Indian Journal of Traditional Knowledge 2(4) 346-356. 2003

### **Book Chapter:**

#### **1. Silori C. S., Dixit, A.M., Gupta L.M., Mistry N.R.**

Observations on medicinal plant richness and associated conservation issues in District Kachchh, Gujarat. 2003 in the edited book on "Medicinal Plant: Utilization and Conservation" (Trivedi, P.C. (editor), Rajasthan University)

## **Presented Papers/ Posters (selected):**

### **1. Leena Gupta**

Integrated Ecological Restoration & Community-led Biodiversity Conservation: A Blueprint for Sustainable Development in the Tribal Region of Gujarat. Presented at Science City, Ahmedabad, Organized by Vigyan Bharati & Govt of Gujarat under Vibrant Gujarat 2024. (21-24 Dec 2023)

### **2. Leena Gupta**

Women's knowledge on traditional medicine for reproductive health care in District Kachchh, Gujarat, India. Presented at Science City, Ahmedabad, Organized by Vigyan Bharati & Govt of Gujarat under Vibrant Gujarat 2024. (21-24 Dec 2023)

### **3. Leena Gupta**

Traditional Knowledge and Intellectual Property Rights. Presented at Science City, Ahmedabad, Organized by Vigyan Bharati & Govt of Gujarat under Vibrant Gujarat 2024. (21-24 Dec 2023)

### **4. Leena Gupta**

Women's Role in Biodiversity Conservation, the success story from Chhota Udepur, Gujarat. Presented at the National conference- Naari Sansad at Rishikesh, Organized by Divine Shakti Foundation, Rishikesh and MLD Sewashram, Delhi. (8-9 October 2022)

**5. Leena Gupta**

Climate Change Mitigation: Ecorestoration and Carbon Credit. Presented Series part 2 in an online national conference under the theme- Climate Crisis & Climate Capital, organized by Industrial Association. (22 June 2021)

**6. Leena Gupta**

Nurture with Nature: Restore the Ecosystems for Ecologically sound sustainable Green Development. Presented Series part 1 in an online national conference under the theme- Climate Crisis & Climate Capital, organized by Industrial Association. (30 May 2021)

**7. Leena Gupta**

Relevance of Urban Nutrition Farming. Presented in an online Conference organized by Rotary International. (29 June 2021).

**8. Leena Gupta**

Role of local biodiversity resource & traditional knowledge wisdom to enhance the productivity of fields & Seed diversity for sustainable food & nutrition sovereignty. Presented at Organic Mahotsav held by the Indian Organic Agriculture Association at Shilpgram, Udaipur, Rajasthan (29 May-1 December 2019)

**9. Leena Gupta**

Role of local Biodiversity resource and traditional knowledge wisdom for sustainable food & nutrition security and sovereignty. Presented at International conference at Bhopal, organized by Govt. of Madhya Pradesh (14 – 16 May 2018).

**10. Leena Gupta**

Understanding Himalaya Trans-Boundary Issues and Ecological Democracy. Presented at National conference at CSDS, Organized by SADED, India (22<sup>nd</sup> April, 2017).

**11. Leena Gupta**

Eco way of Life. Presented at Badarpura village under Environment awareness programme. Supported by Gujarat Ecological Commission (16 March 2017).

**12. Leena Gupta**

Issues around Forestry & related resources of Commons : Experiences from the Confluence area of Aravallis, Vindhyans, Satpura & Northern Western Ghats. Presented at National conference on Commons at KVK Udaipur, Rajasthan. Organized by SADED, ICAN & IELA (20-22 January, 2017).

**13. Leena Gupta**

Pasture Land Development challenges, ground opportunities & strategy (Presented at Gauseva & Gauchar Vikas board, Gujarat , 18 November 2015 & 9 March 2016).

**14. Leena Gupta**

Ecological Landscapes & Forest Rights Act : BIODIVERSITY & ECOLOGICAL CONCERNS (presented in national conference on FRA at India Habitats, New Delhi (December 2015)

**15. Leena Gupta**

Global Warming & Climate Change ‘The Crisis and how to respond’: The Aravallis of Gujarat & Rajasthan. Presented at National Conference on Global Warming & Climate Change – A Way Out. Organized by Govt. of Madhya Pradesh – pre conference of Sinhasth Maha Kumbh (21-22 November, 2015)

## **16. Leena Gupta**

Impacts of 'Development': Green Development Vs Clean development, A case of Kalpavalli - Semi arid region of India (Paper presented in the 4th International Conference on Degrowth 2014 at Leipzig, Germany. September 2-7, 2014).

## **17. Leena Gupta**

Traditional knowledge wisdom, Sustainable development and the Post Growth Society (Paper presented in the 4th International Conference on Degrowth 2014 at Leipzig, Germany. September 2-7, 2014).

## **18. Leena Gupta**

The great show of Economic Growth: Plunder from the Nature & Pretend to help Poor (Conference at Helsinki, Finland September 10, 2014)

## **19. Leena Gupta**

Floral diversity and habitat analysis of Kalpavalli Forest Area, Andhra Pradesh, India. (Paper presented in 4<sup>th</sup> IDSAsr International seminar on the Water Energy and Food Security in Guru Arjundev Institute of Development Studies, Amritsar, Punjab -November 2-4, 2013)

## **20. Leena Gupta**

Wild edible plants of an arid region Kachchh, India: associated indigenous knowledge and implications to food security (as above)

## **21. Leena Gupta**

Presented Paper on ' Kalpavalli – Green versus Clean Development' under the theme “Building a coalition for the defense & nurturance of Biodiversity” (United Nations Convention on Biological Diversity – Conference of Parties 11 UNCBD COP11 [Side Event-16<sup>th</sup> October] at Hyderabad, October 11-20, 2012)

## **22. Leena Gupta**

How to protect Traditional Knowledge for Biodiversity conservation (Paper presented in the International Rural Network-09). Organized by Sevamandir, Udaipur. (August 2009)

## **23. Leena Gupta & B.R. Pandit**

Medicinal plants and rural women's knowledge on reproductive health (Paper presented in National Conference & Symposium On “Emerging Trends In Plant Biology, Environment Protection And Biotechnology”, M.L.S. Sukhadiya University, Udaipur, Rajasthan) October 2006

## **24. Leena Gupta**

Traditional Knowledge And Intellectual Property Rights (Paper presented in National Conference & Symposium On “Emerging Trends In Plant Biology, Environment Protection And Biotechnology”, M.L.S. Sukhadiya University, Udaipur, Rajasthan) October 2006

## **25. Leena Gupta**

Use of medicinal plants in Gynaecological purposes by the rural women in Kachchh. (Poster presented in the 9<sup>th</sup> National Conference on “Bioactive Heterocycles and Drug Discovery Paradigm”, Rajkot, Gujarat.) January 2005

## **26. Silori C. S., Gupta L.M., Mistry N.R., Dixit, A.M.**

Conservation status of Wild Relatives of Cultivated plants and their Ethnobotanical uses in district Kachchh, Gujarat. (Paper presented by Silori, C.S. in National seminar on ethnobiology, REWA, Madhyapradesh) Feb. 2003.

## **Papers - Under Process:**

1. Plant Genetic Resources- assessment of Wild relatives of cultivated plants of Gujarat State, India.

2. Impacts of Invasive species on local indigenous flora of the confluence zone of Aravallis, Satpura, Vindhyan and Northern Western Ghats.

### **Technical Reports/ Books:**

1. Environment Awareness Programme Under Gatishil Gujarat 2016 with Govt. Primary School students of Visnagar and Kheralu Taluka. Submitted to Forest Department, Govt. of Gujarat (2016).
2. Comment report submitted to UNFCCC on the PDD of the large scale Windfarm CDM project in Kalpavalli forest area of Anantpur, Andhra Pradesh (2012).
3. Report on landgrabbing issue and its impacts in Kalpavalli Forest of Anantpur District, Andhra Pradesh: Land & Resource Grabbing through 'CDM' in a Community Conserved Forest on barren wasteland. Submitted to SPWD, New Delhi and Funded by RRI, Washington DC (2011)
4. Technical module for Ecological Nursery techniques and Eco restoration
5. Technical module for Environment Education Programme
6. Reports on Environment Education programmes Conducted in different tribal areas of Udaipur District in Rajasthan and Kawant in Gujarat, Funded by and Submitted to SPWD (2010-11).
7. Report on Study on "Implication of Forest Rights Act (FRA) in the context of sustainability of the forest resources on one hand and right of the individuals and communities under the act on the other, special reference to the implementation of Community rights" Submitted to SPWD, New Delhi. Funded by SPWD, New Delhi. (November 2010)
8. Report on Preliminary survey of Minor Forest Products (MFPs) situation in Rajasthan. Submitted to Samarthak Samiti, Udaipur (January 2010)
9. Report on Biodiversity & Livelihood- a case study of Prosopis juliflora in Ajmer. Submitted to the Society for Promotion of Wastelands Development (SPWD), New Delhi (October 2009)
10. Compiled a Booklet (in English and Hindi language) on "Some important Medicinal Plants of Southern Rajasthan-Jan Upayogi Van Upaj", Samarthak Samiti, Udaipur (Oct 2008)
11. Ecological profile of district Udaipur with special emphasis on ecological conservation. Report submitted to FES (2007).
12. Report on regeneration and plantation assessment in the forests of district Udaipur in Rajasthan. Submitted to FES (2007)
13. Draft report of People's Biodiversity Register of Aravalli forest region and communities of Udaipur district in Rajasthan, submitted to FES (2007)
14. Report on Environment Education Programmes Conducted in different tribal and urban area schools of Udaipur District in Rajasthan, Funded by British High Commission (BHC) and Submitted to FES (2006).
15. Report on A Phenological Study in two selected areas of Udaipur District in Southern Aravallis. Submitted to FES (2006).
16. Report on A Study On Traditional Knowledge of Ethnobotanical Resources Of District Kachchh. Submitted to MoEF (2005)
17. Report on Study on Medicinal Plants of Kachchh District. Submitted to GEER Foundation, Gandhinagar. (2002)
18. Process documentation of JFM activities in JFM forest-villages. JFM Cell, GEER Foundation, Gandhinagar (2000-2001).

19. Compiled a Booklet (in Gujarati language) on “Medicinal Plants of Lakhpat Taluka”, Shrujan Trust, Bhujodi, Kachchh (2005)

### Articles

Published several articles related to importance of medicinal plants, plant genetic resource, ecoservices, indigenous seeds and wild edible plants for awareness creation in newsletters.

### Symposia/ Seminars/ Workshops attended/ participated (Selected):

1. Self-sustained Pasture development, presented at Gujarat Gauseva Ayog, Gandhinagar, 2016.
2. Global significance of indigenous Biodiversity in Food & Nutrition Security & Sovereignty, presented in the International convention in International Terra Madre, Turino, Italy, 2016.
3. Paper presented in the 4th International Conference on Degrowth 2014 at Leipzig, Germany. September 2-7, 2014
4. Presented papers in the 4<sup>th</sup> IDSAsr International seminar on the Water Energy and Food Security in Guru Arjundev Institute of Development Studies, Amritsar, Punjab -November 2-4, 2013
5. **Papers presented in UNCBD CoP11 at Hyderabad (October 2012)**
6. Participated in FICCI UNFCCC CDM Policy Dialogue: India Consultation. Organized by FICCI, New Delhi (16th July 2012)
7. Participated in 4th National Conference regarding FRA. Organized by NFFWFP at Dehradun (26-27 May 12).
8. Resource Person in the Workshop on Children’s Ecological Rights. Organized by Timbaktu Collective, Andhra Pradesh (12-15 May 12).
9. Speaker in Civil Society Workshop on CDM and Carbon Markets, Organized by CDM-Watch and Paryavaran Mitra. (18 -20 April, 2012)
10. Poster on “Adaptation to change in interlinked cultivated and wetland ecosystem: A study in Western India”. Poster submitted to Global millennium assessment conference at Spain. (Jan 12)
11. Presented paper “Journey of Kalpavalli Forest: Barren to Green; Green to Degrade” in CSE’s South Asian Media briefing Workshop on Climate Change. CSE, New Delhi. (17 Nov 11)
12. Participated in the Public Consultation on the Biotechnology Regulatory Authority of India (BRAI) Bill 2011. Organized by Greenpeace and the Delhi Alliance for Safe Food. (16 Nov 11)
13. Presented Kalpavalli case study (under Biodiversity Heritage Site proposal) in the workshop on Community rights & Biodiversity Act. Andhra Pradesh State Biodiversity Board, Hyderabad. (11 Nov 11).
14. Participated in the workshop on “Reducing emissions from deforestation & degradation (REDD)”. Organized by ATREE & The Norwegian University of Life sciences (14 July 11)
15. Presented paper on “Millets for biodiversity conservation” cases of Gujarat and Rajasthan regions, Ahmedabad in the 2nd national conference of Millet Network of India (MINI), Ahmedabad. June 2010.
16. Presented poster (collaboration work with SPWD) on “Ecology & Livelihoods” case study of Hari Kanthariya , Udaipur, S.Rajasthan” in the Farmer’ Sammelan, Bambora, organized by Prayatsn Samiti, Rajasthan (28-29 Jan 2009).

17. Presented poster (collaboration work with SPWD) on “Landuse change & Biodiversity implications- Landscape approach, case studies of Hari Kanthariya & Umarada” in the Farmer’ Sammelan, Bambora, organized by Prayatn Samiti, Rajasthan (28-29 Jan 2009).
18. Participated in training workshop on understanding Biodiversity, Organized by Society for Promotion of Wastelands Development, Udaipur. (March 2008)
19. Participated in Biophysical and Ecological Monitoring workshop, Foundation for Ecological Security, Anand, (March 2007, March 2008)
20. As Resource person- Integrated Capacity building & training programe (Sustainable use of Natural Resources), Organized by Samarthak Samiti, Udaipur (17-18August 2007)
21. Poster presented in National Conference & Symposium On “Emerging Trends In Plant Biology, Environment Protection And Biotechnology”, M.L.S. Sukhadiya University, Udaipur, Rajasthan (October 2006).
22. Participated in the One Day International Symposium on “Recent Trends in Drug Discovery” Jointly organized by Indian Society of Chemists & Biologists, CDRI, Lucknow and Saurashtra University, Rajkot, Gujarat (January 2005).
23. Participated in the workshop on Building network for validation and value addition to traditional herbal practices in medicine. Organized by National Innovation Foundation (NIF), Ahmedabad (March 2004).
24. Participated in the National Conference on Traditional Knowledge Systems of India. Organised by Department of Humanities and Social Sciences, Indian Institute of Technology (IIT), Kharagpur, West Bengal (January 2004).

### **Professional Trainings held:**

#### **1. Herbarium Techniques (Including Virtual Herbarium):**

Organized by National Institute of Science Communication and Information Resources (NISCAIR), New Delhi (May 2003).

#### **2. Photography:**

Photography workshop-“Taking Better Photos” organized by Social Communication Services, Hyderabad and sponsored by Foundation for Ecological Security, Anand, Gujarat (April 2007).



**(Leena Gupta)**