

NPC Consultant Professional Profile

I. Personal Information

Name: [Dr. Bajrang Lal]

Current Position& Domain: [Deputy Director, Agribusiness]

Office Location: [Delhi]

Languages: [English]

Contact: [bajrang.lal@npcindia.gov.in and +91-11-24607390]



II. Professional Summary

Undersigned has working experience of more than 17 years in area productivity improvement area. It includes monitoring, evaluation and impact assessment of different Ministry/departments scheme and programme supported by Govt of India. Experience in this field typically includes designing frameworks, collecting and analyzing data, and providing actionable recommendations for different improvement in area of productivity. Further as a expert also engaged in human resources capacity building.

III. Areas of Expertise

Primary Domains: [Agriculture Science, Science & Technology Policy and Productivity Improvement]

Specialized Skills: [Impact assessment, Monitoring and Evaluation, Productivity improvement and Innovation & Foresight]

Industry Focus: [Agriculture seed, fertilizer, implement, agro based processing, and warehousing) Service and industry]

IV. Professional Experience

Current Position: [Deputy Director] **Organisation:** [National Productivity Council, Delhi, Jaipur New Delhi] **Duration:** [17 Sept 2015 to till date]

Key Responsibilities:

- Developing Proposal preparation and execution of work under agribusiness.
- Monitoring, evolution and impact assessment of programme /scheme.
- Training and development in area of leadership development productivity specialist for public sector
- Applied research in agribusiness domain Leadership and team management aspects
- Monitoring and Evaluation of central and centrally scheme under NMPB during 2014-15, 2015-16 and 2016-17

Previous Position: [Assistant Director] **Organisation:** [National Productivity Council, Chandigarh, and New Delhi] **Duration:** [12 Sept, 2008 to 17 Sept 2015].

Key Responsibilities:

Consultancy/funding proposal development writing, and submission to different department and scheme

- Execution, planning, deployment, surveying, data analysis of monitoring and evolution of projects in area of agribusiness, industry and service sector for productivity improvement.
- Capacity building activities.
- Supporting, communicating and co working with other team member within or outside organization.

Previous Position: [Fellow] **Organisation:** [CITT, IIFT] **Duration:** [Jan 2006 to Sept 2008]

Key Responsibilities:

- International Project on developing Master programme on innovation Management and technology transfer in China, India Poland and UK under Asia Link EU Supported
- National innovation system assessment, national case development, international liaisoning with project partner in different countries
- Conducted case studies in different Innovation management area
- New area developed in international partnership with EU. And assessment of Foreign R&D centre also carried out.

V. Major Project Experience in NPC [For each significant project, include:]

1. Project Title: [Monitoring & Evaluation of various projects funded by National Medicinal Plants Board under its Schemes during the year 2013-14, 2014-15, 2015-16 & 2016-17]

Client Name: [National Medicinal Plant Board] **Type:** [Government] **Sector:** [Medicinal plant and Forest]

Role: [Project In charge]

Duration: [2013-14, 2014-15, 2015-16, 2016-17]

Problem Definition: [the monitoring and evaluation of Central Sector Scheme for Conservation, Development and Sustainable Management of Medicinal Plants” and projects / Action plan for centrally Sponsored Scheme of National Mission on Medicinal Plants” / Medicinal Plant component of National AYUSH Mission.

Objective of work

- Carry out monitoring and evaluation of all projects under centre sector and centrally scheme for promotion of medicinal plant.
- Monitoring progress report of Conservation (in-situ & ex Situ), JFMC, MPCA, resources augmentation Herbal garden, and capacity building funded under scheme.
- Cover A
- Evaluate Medicinal Plant cultivation at farmer’s field under National AYUSH Mission, covered more than 60,000 farmers.

Recommendations Made: [project management agency all project report submitting for release of next instalment of project]

Impact Created:

- Approximately 200 project monitored and evaluated in different categories
- Recommend on physical as well as financial progress
- It also save Cost, create efficiency in process management
- Capacity building outcomes

2. Project Title: Assessment of Soil Testing Infrastructure for Faster Delivery of Soil Health Cards in India]

Client Name: [Department of Agriculture, Cooperation & Farmers Welfare, Ministry of Agriculture & Farmers Welfare, And Govt. of India] **Type:** [Government] **Sector:** [Agri input]

Role: [Team member]

Duration: [2016-17]

Problem Definition: [Assessment of physical and technical infrastructure in soil testing in India.

Objective of work

Assessment of physical and technical infrastructure in soil testing in India; strengthening and functioning of Soil testing Lab (STLs) in India and diagnose soil fertility related constraints with standardized procedures for sampling uniformity

Recommendations made: [study suggested requirement of building soil testing laboratories in India]

Impact Created: Integrated Nutrient Management Division, Department of Agriculture, Cooperation & Farmers Welfare, Ministry of Agriculture & Farmers Welfare, Govt. of India accepted for strengthening of infrastructure in India

3. Project Title: Study on Assessment of Impacts of R& D Technologies on Society with reference to Menthol Mint (*Mentha arvensis*) and Anti- Malarial Drug Plant (*Artemisia annua*) among the Farmers for Income Enhancement for Central Institute of Medicinal And Aromatic Plants]

Client Name: [CIMAP-CSIR] **Type:** [Government] **Sector:** [S&T]

Role: [Team member]

Duration: [2017-18]

Problem Definition: [Assessment of Impacts of R& D Technologies on Society with reference to Menthol Mint (*Mentha arvensis*) and Anti- Malarial Drug Plant (*Artemisia annua*) among the Farmers for Income Enhancement]

Objective of work

- To evaluate the socio- economic impact of CSIR-CIMAP technologies and plant varieties developed for the menthol mint (*Mentha arvensis*) and anti- malarial drug plant (*Artemisia annua*).
- To study the return on investment (ROI) accrued by processors/ farmers by adoption of CSIR-CIMAP technologies for the above referred plants
- To assess the impact of Training & Demonstration provided by CSIR-CIMAP to producers/processors involved in the cultivation/processing of menthol mint and *Artemisia annua*.
- To estimate the employment generation and income enhancement through the activities involved in the cultivation and processing of menthol mint and *Artemisia annua*.

Recommendations made: [Institutional technologies impact assessment on farming communities in their income and livelihood generation]

Impact Created: Investment on R&D, on development of novel varieties, processing equipment and innovative cultivation practise have positive impact on farming societies in small and marginal farmers.

4. Project Title: Water Balance/Audit studies in around 45 Industrial units in State of Rajasthan]

Client Name: [Different Industry textile, beverage, Auto, Cement, and Food processing in Rajasthan] **Type:** [Private sector] **Sector:** [Agri input]

Role: Liaison with different client organisation and capacity building training]

Duration: [April 2022 March 2023]

Problem Definition: [To restrict indiscriminate abstraction of ground water by different industrial unit therefore industries abstracting ground water in excess of 100 m³/day shall be required to undertake biennial (once in two years) water audit through certified auditors of agencies as approved by CGWA and submit audit reports within three months of completion of the same to CGWA.

Recommendations made: [Water balance/Audit Status Report prepared on actual abstraction and measure/suggestion made for lower down ground water abstraction]

Impact Created:

- Sustainable use of water, water saving option for industrial units and water plan for individual units

VI. Educational Background

Highest Degree:

- **Degree:** [PHD in Science Policy]
- **Institution:** [Centre for studies in Science policy, JNU new Delhi]**Type:** [Full Time]
- **Year:** [2018]
- **Specialization:** [Seed System of Innovation and technology Transfer Strategies in Indian Seed Sector]
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- **Degree:** [M.Phil/PHD in Science Policy]
- **Institution:** [Centre for studies in Science policy, JNU new Delhi]**Type:** [Full Time]
- **Year:** [2006]
- **Specialization:** [S&T impact and intervention in agriculture and others]
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- **Degree:** [M.Sc Agricultural Science (Plant Breeding & Genetics)]
- **Institution:** [Rajasthan Agricultural University, changed name Swami Keshwanand Rajasthan Agricultural University, Bikaner Raj]**Type:** [Full Time]
- **Year:** [2001]
- **Specialization:** [Agricultural Science (Genetics and Plant Breeding)]
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- **Degree:** [B.Sc. Agri (hons)]
- **Institution:** [Rajasthan Agricultural University, changed name Swami Keshwanand Rajasthan Agricultural University, Bikaner Raj]**Type:** [Full Time]
- **Year:** [1998]
- **Specialization:** [Agricultural Science]

Additional Professional Qualifications:

- [Membership -National Science Policy Network USA and - the International Society for Professional Innovation Management ISPIM - Membership ID 2713]

- Specialised training-- [Understanding Conflict and Conflict Management, United Nation Institute of Training and Research (UNITAR) and Delhi Policy Group (DGP) New Delhi India during June 25 to 29, 2012; Warehouse physical and Stock Inspection Under WDRA Act 2007, Development of Public-sector Productivity Specialists during 4–15 November 2024
- [MS word PPT and excel]

VII. Research and Publications

Work experience in NPC in different project activities/assignment/project:

Period	Monitoring/Evaluation, Impact Assessment and Project Management Agency
2006-08	Multinational Project on Developing Master's Programme on Innovation Management and Technology Transfer (IMTT) in India, China, UK and Poland under the EU-Asia-link programme funded by European Commission.
2008-09	Productivity Award for (Food Processing, Pharma and Textile, Auto) MSMEs Sectors in Punjab, HP. Human Resources Management training on Time Management, 5s at Patel Engineering, at Mega Hydrial project at Uttarkasai, Uttarakhand Worked as team Member ISO 9000-2005 certification of Himachal Pradesh State Civil Supplies Corporation Limited and HAFED.
2009-10	Assessment of Electricity Energy Conservation and Consumption in four sectors such as Municipal Corporations, Agriculture Pumps, Commercial Building and SMEs sector supported by BEE. Ministry of Power, Govt of India.
2009-10	Impact Assessment and Evaluation of Plan Scheme for Technology up gradation/modernization/expansion of food processing units, Ministry of Food Processing, Govt of India.
2010-11	Impact Assessment & Evaluation of Integrated Community Development Project (ICDP) in India NCDC, 2010.
2010-11	Impact Assessment and Development of Management Information System of Hazardous Waste Management Facilities (TSDF), NGPL Punjab.
2011-12	Impact Evaluation of Intensive Dairy Development Programme (IDDP), supported by Department of Animal Husbandry, Dairy & Fisheries, Ministry of Agriculture, Govt of India.
2011-12	Impact Evaluation of Central Fodder Minikit Testing Programme, Implemented by Department of Animal Husbandry, Dairy and Fisheries, Ministry of Agriculture, Govt of India.
2012-13	Identify Gaps in Input Supply, Credit Availability, Dissemination of Appropriate Technology and other requirements relevant for Improvement of Productivity of Crops

	in Rainfed Areas of Andhra Pradesh & Maharashtra states, National Rainfed Area Authority, Govt of India https://www.nraa.gov.in/Publication.aspx
2013-14	Productivity Measurement and norm for productivity improvement in Agro-based industries in Non-Beverage Sector in India.
2013-14	Impact Assessment & Evaluation of Crop Diversification Programme in Original Green Revolution State of India Haryana, Punjab and Western Uttar Pradesh
2014-15	Assessment of Crop Specific Assessment and Building forward and Back Ward linkage in various crop in the 13 State of India entrusted by Ministry of Agriculture Cooperation and Farmers Welfare, Govt of India.
2015-16-2019	Monitoring and Evaluation of Medicinal plant under Central and Centrally Sponsored scheme by NMPB under Ministry of Ayush Govt of India in 13 Southern and Western Zone of India which involves more than 200 Ex-situ and In-situ Conservation site, Herbal garden, Processing and Marketing of Non Timber Forest Product (NTFP)- 2013-14, 2014-15, 2015-16 & 2016-17
2017-18	Study on Assessment of Impacts of R& D Technologies on Society with reference to Menthol Mint (<i>Mentha arvensis</i>) and Anti- Malarial Drug Plant (<i>Artemisia annua</i>) among the Farmers for Income Enhancement for Central Institute of Medicinal And Aromatic Plants.
2017-18	Assessment of Soil Testing Infrastructure for Faster Delivery of Soil Health Cards for Integrated Nutrient Management Division, Department of Agriculture, Cooperation & Farmers Welfare, Ministry of Agriculture & Farmers Welfare, GOI (2017)
2017-18	Impact assessment of RKVY in 40 districts in State of Uttar Pradesh of India.
2018-19	Evaluation Study on Socio-economic Impact of Agro Technologies of <i>Lilium</i> developed by CSIR-IHBT for CSIR-Institute of Himalayan Bioresource Technology.
2019-20	Evaluation of the pulses buffer stock assessment, Department of Consumers Affair, Govt of India.
2020-21 2021-22	Industrial Water/Balance Studies/ Audit Unit located in Rajasthan State of India under Central Ground Water Board (CGWB) Guideline.
2023-24	Draft report submitted - Evaluating efficacy, utility and impact of Nano Urea in comparison to Conventional Urea entrusted by Department of Fertilizer Govt of India.

- **PUBLICATION AND PRESENTATION**

- Bajrang Lal., 2006. *Protection of Plant Variety and Farmers Right and its Impact on Indian Seed Sector vis-a visa Farming Community* at XII National Seed Seminar on Prosperity through Quality Seed, Indian Society of Seed Technology, New Delhi and Acharya N.G. Ranga Agricultural University Hyderabad, Feb, 24-26, PV-IV-232-161.
- A K Choudhary and Bajrang Lal., 2007., *Variability and Association Studies in M3-lines of Fenugreek* published in the proceedings (page: 267) of the National Legume Symposium - 2007 on " Legumes for ecological sustainability: Emerging challenges and opportunities" organized by *Indian Society of Pulses Research and Development* from Nov 3-5, 2007.
- Bajrang Lal, 2007., “*Innovation Management in Agriculture in India - A Perspective*” presented International Conference on "Knowledge Management for Productivity and Competitiveness" at India Habitat Centre organized by National Productivity Council, Productivity Journal New Delhi, 2007.
- S.P. Agarwal and Bajrang Lal, 2008., *National Innovation System and Export Competitiveness: Indian Experience* - “Confronting the Challenges of Technology for Development: Experience from BRICS, Department of International Development (QEH), University of Oxford, 29-30 May. <http://www3.qeh.ox.ac.uk/slptmd/Abstracts.pdf>
- S.P. Agarwal and Bajrang Lal, 2008., *Innovation Management and Education for Global Competitiveness*, presentation in 5th International Conference on Business Challenges and Strategies in Emerging Global Scenario, Punjab College of Technical Education, Ludhiana, Punjab, India, 30 May.
- Bajrang Lal, 2008.,
- *Technology Transfer and the Seed System of Innovation In India “EU-US Early Research Conference on Research and Innovation Studies”* under PRIME Network of Excellence in STeHPS Universiteit Twente The Netherland during June, 1 - 4th July 2006.
- www.euspri-forum.eu/spip.php?action...arg...pdf%2FBajrang_Lal
<http://www.jnu.ac.in/academics/schools/schoolofsocialsciences/cssp/publications.htm>
- Agarwal S.P. and Bajrang Lal 2008., *Internationalization of SMEs in a Globalizing Economy : Indian Experience* International conference on Emerging Multinationals’: Outward Foreign Direct Investment from Emerging and Developing Economies, Copenhagen Business School, Denmark 9-10, Oct, 2008.
- Agarwal, S.P. and Lal, B., 2008., *Emerging Demand for Human Resources (HR) in Innovation Management in India* in international conference on knowledge, innovation and creativity, IMT Gaziabad, India, Dec, 2008.
- Bajrang Lal, 2008., “*Mapping knowledge Systems- Emerging Concept of Innovation Management Education for Global Competitiveness*” in Global Research Seminar: Sharing Research Agenda on Knowledge System, UNESCO, Headquarters 27-29 November 2008 Room XIII UNESCO Bonvin Building I rue Miollis, 75015 Paris.
- <http://portal.unesco.org/education/en/files/58012/12245961895Lal.pdf/Lal> pdf
- Bajrang Lal, 2009., “Technology Transfer Strategies by Indian Seed Companies in Indian Seed Sector, - Early Career Researcher Conference on Challenges in Research and Innovation Policy Studies Supported by the EC under the Sixth Framework Programme, Manchester Business School, University of Manchester, United Kingdom during 29-june-2 July, 2009.
- <http://www.mbs.ac.uk/research/engineeringpolicy/researchprojects/prime/documents>
- Bajrang Lal 2010. Abstract accepted in ST Global on Promising Agribusiness Innovation Approach to Enabling Sustainable Development in Asian Agriculture, Innovating the Future: Critical Perspectives in Science & Technology Conference! At ST Global Consortium at Washington, DC. April 9th through 11th www.stglobal.org/2010/2010panel1.html

- Speaker in IP: Capturing, Acquisition, Management of Portfolio (IP: Camp)” organized by Department of Zoology, School of Life Science, Dr Bhimrao Ambedkar University, Agra & Defense Research & Development Organization, Ministry of Defense, Government of India during 4th -5th November 2019.
- Paper Presented on Technology, KM and Barrier of Innovation in Indian Agriculture in the first international Conference on knowledge management for Productivity and competitiveness held on 11-12 Jan 2007 New Delhi
- PROCEEDINGS: Participated in International Scientific Symposium on Food and Nutrition Security information: from Valid Measurement to Effective Decision Making, Rome, 17-19 January 2012, Food and Agriculture Organization of the United Nations, Rome, 2013.
- Development of Public-sector Productivity Specialists (4–15 November 2024, Manila, Philippines) supported by Asian Productivity Organization, and organized by Development Academy, Manila, Philippine