

BIODATA of Dr. V. P. UPADHYAY

1.	Name & Affiliation	:	DR. VEERENDRA PRATAP UPADHYAY, Former SCIENTIST 'G', Govt. of India, Ministry of Environment, Forest & Climate Change
2	Address for correspondence	:	B1 ,303, New LIC Colony, Maitri Vihar Bhubaneswar -751023 Ph. +91-674-2302330(R); Mobile. +919437129945 <u>Email:vpupadhyay@gmail.com; vp.upadhyay@nic.in</u>
2(b)	Date of Birth		10.07.1958



3. Educational Qualification (From Degree level):

Name of the certificate/ Diploma/Degree	Year	Subjects
B. Sc.	1978	Zoo. Bot. Chem.
M. Sc.	1980	Botany with specialization in Ecology
Ph. D.	1985	Botany (Forest Ecology)
Certificate of Proficiency in German	2004	German (Intensive)

4. Experience (in chronological order):

Name of the Office	Designation/Grade	Period	Last Pay Scale (Rs)	Type of Duties & Functions
MOEF and CC	Scientist SD' up to Adviser	Jan.1990- July,2018	211800; Level 14	Environmental monitoring, EIA review, EIA appraisal (Mining), Env. Monitoring, and EIA appraisal (Industry)
NAARM (ICAR), Hyd.	Scientist S1(ARS-86)	Oct.1989- Dec.1989	2200-4000/-	Forestry Research
Kumaun Univ. Nainital,	Researcher	Dec.1980 - Sept.1989	2200-4000/-	Restoration Ecology Research, Eco-development Research, Forest Ecosystem Analysis Research

5. Research Outputs:

- i) **Area of specialization:** Forest Ecology, Environmental Appraisal, EIA and Environmental Monitoring

ii) **Ph.D. students supervised and degree awarded:**

Seven students were awarded PhD under me from Utkal University, Shri Venkateshwara University, Kumaun University and Berhampur University.

6. Special Awards/Appreciation of work etc. (if any):

- Acted as **Member Secretary**/ member of MoEF Committee to review conditions of EC and for devising proforma for monitoring of projects
- Coordinated various Committees for finalizing reports of Iron ore Mining in the Country.
- Acted as **Member Secretary**/ MoEF EAC for EC to Industrial projects
- Acted as **Member Secretary**/ MoEF EAC for EC non-Coal Mining projects
- **Member**, MoEFCC committee to draft legislation dealing with violations of E(P) Act 1986
- **Chairman**, EAC, UT Dadra Nagar Haveli, Daman,Diu from March 2021-Feb.2024

a) Award/ Scholarship/ Official Appreciation

- i. **"Environmental Conservation Awareness Award"** of Orissa Environmental Society on 30th October, 2007.
- ii. **Fellow** of International Society for Tropical Ecology, Varanasi, India (FTE)
- iii. **Fellow** of National Institute of Ecology (FNIE).
- iv. **Fellow** of Orissa Environmental Society (FOES)
- v. **Lifetime Achievement Award** 2014 by IMEJ, India
- vi. **Man of Year Award 2015** by HONEST, Odisha
- vii. **Excellence in Environment Award** 2024 by Orissa Environmental Society
- viii. **SGAT Lifetime Achievement Award 2017** by Society of Geo Scientists and Allied Technologies, Odisha
- ix. **Fellow**, East Himalayan Society for Spermatophyte Taxonomy (FEHT)

b) Affiliation with the professional bodies/institutions/Societies

1. International Association for Ecology (INTECOL)
2. Ecology Research Circle, Nainital.
3. Life Member, National Institute of Ecology, India
4. Life Member, International Society for Tropical Ecology, India
5. Adviser, Society for Geoscientists & Allied Technologists (SGAT), Bhubaneswar.
6. Life Member, Plant Lovers' Association, Bhubaneswar.
7. Adviser and Life Member, Orissa Environment Society, Bhubaneswar
8. Life Member, Odisha Botanical Society, Bhubaneswar
9. Life member, East Himalayan Society for Spermatophyte Taxonomy, India.
10. Member, World Academy of Science, Engineering and Technology (WASET),
11. Associate Member, International Society for Development and Sustainability (ISDS), Japan.
12. Member, Women Organizing for Change in Agriculture and Natural Resource Management (WOCAN) WOCAN, Kailua Kona Hawaii, 96740, USA
13. Advisory Editorial Board Member, SGAT Bulletin of Society for Geoscientists & Allied Technologists (SGAT), Bhubaneswar.

c) Current Assignments

1. **Member**, ECOLOGY, Central Insecticides Board, Ministry of Agriculture and farmers cooperation, Government of India

7. Total Field Experience :38 years

8a. Professional Training:

Title	Duration		Organization
(a)India:	From	To	
EIA of developmental projects	23.03.1995	28.03.1995	IIM Calcutta
Management of Natural Resources and Environment	28.02.1995	11.03.1995	IIPA, New Delhi
Modelling and Monitoring of Coastal Marine Process (MAMCOMP-99)	15.11.1999	26.11.1999	IIT ,Delhi
Equipping the Enforcers in Environmental Law at W.B Univ. Juridical Sciences, Kolkata	19.04.2000	23.04.2000	CEERA, NLSIU, Bangalore
Science Policy and General Management, NIAS Bengaluru	06.02.2017	17.02.2017	NIAS, Bengaluru
(b) Abroad			
Environmental Impact Assessment and Auditing	08.01.1996	15.03.1996	DPPC, University of Bradford ,U.K.
Course in environmental Management	16.03.1996	27.03.1996	CICT , Middleborough, England
Rehabilitation of Degraded Lands in Asia and Africa	26.10.2010	17.12.2010	JICA International Centre, Yokohama Japan
Training on Gender Integrated Planning for Mangroves for the Future	20.04.2015	24.04.2015	MFF,IUCN Thailand & WOCAN

8b. Important events: Lead Speaker/Panel Member/ Chair Person (2018- January, 2022)

- National Conference On Biodiversity Conservation for Sustainable Development and Environment Management (BCSDEM-2018) Centurion University, Khurda, Odisha 1st April, 2018 as Guest of Honour
- Environment Awareness Programme for School students by Numaligarh Refinery Ltd and MoEF Regional office at Numaligarh Assam. 24th April, 2018 Organiser
- National Seminar on Future India: Science & Technology, by ISCA and KITS and KISS Bhubaneswar February 1st-2nd, 2019 Speaker
- CSR- natural Resource management organised by Industrial energy Limited 23.02.2019 Co-Chairman of the session
- World Environment Day 2019, MoEFCC regional Office Bhopal 3.6.2019 Resource person
- The Chromium 2019, New Delhi, India by International Chromium Development Association 5-7 November 2019 Speaker
- International Ferro Alloys Conference 2019 by The Indian Ferro Alloy Producers Association (IFAPA), New Delhi 12th - 14th September 2019 Speaker
- Environmental Impact Assessment (EIA), and "Waste Management" under Green Skill Development Programme (GSDP) by CES Odisha Dec 2019-march 2020 Resource person/Speaker
- Webinar on 'Mining, Development and Ecology' organized by Orissa Environmental Society (OES), Bhubaneswar 06.09.2020 (Sunday) Resource person
- Conducting EIA Study and Preparation of EIA reports — Case study & Group Discussion by ESCI Hyderabad 21.07.2020 Invited speaker
- Training Prog. on "Environment Management and Sustainability – Latest Developments" by ESCI, Hyderabad 21 – 25 September, 2020 Invited speaker
- Webinar on "Challenges for NSS Volunteers in Climate Change: An initiative from KISS & KIIT NSS, Bureau" Bhubaneswar 22nd October 2020 Invited speaker

- Webinar on “Raw Material Security for Mineral Based Industries” organised by SGAT Bhubaneswar 19.12.2020 Invited speaker
- Conducting EIA Study and Preparation of EIA reports — by ESCI Hyderabad **27 - 28 April, 2021**. Invited speaker
- Earth day 2021, by institute of Geoscientists Odisha 22-04-2021 Speaker
- ASCI Hyderabad: R and R issues in projects and EC requirement 26.7.2021 speaker
- ESCI, Hyderabad, Training on EIA and EMP for Engineers of GETRI” 20 December, 2021 Guest Faculty
- Training Programme on “Biodiversity Conservation and Climate Change” Gopabandhu Academy of Administration Training (DoPT,GOI, New Delhi.) 1st -3rd November, 2021 Guest Resource Person
- ESCI Hyderabad, Training Programme on “**Sensitization of Environment Management**” **20 January 2022** Guest Faculty

8c. Conferences/workshops organised;

- **More than 25** on Environment and Forest of Eastern Region, Regional level consultation on conservation of Biodiversity and Environmental clearance and compliance by projects

8d. Regulatory Functions- Environmental Clearance, Appraisal & Monitoring

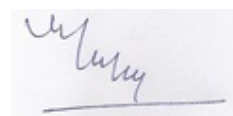
Sr.No	Year of involvement	Region	States covered
1.	1990-2003	Eastern region	Orissa, west Bengal , Bihar, Sikkim, Andaman and Nicobar Islands
2.	2003-2006	North Eastern Region	Arunachal Pradesh, Meghalaya, Assam, Nagaland, Manipur, Mizoram, Sikkim and Tripura
3.	2006-2013	Eastern region	Orissa, West Bengal , Bihar and Andaman and Nicobar Islands
4.	2013-14	India	Member Secretary EAC Industrial projects(New Delhi)
5.	2013-14	Central region	U.P., Rajasthan and Uttarakhand
6.	2014-2015	India	Member Secretary EAC mining projects (New Delhi)
7.	2015-16	Eastern Region	Odisha and west Bengal
8.	2016-2018	North Eastern Region	Arunachal Pradesh, Meghalaya, Assam, Nagaland, Manipur, Mizoram, Sikkim and Tripura

9. Academic achievements in brief:

I have specialization in Ecology and did Ph.D. in Botany (Forest Ecology) from Kumaun University Nainital, India. I worked in research projects of DST, MoEF, and CSIR from 1981-1989 and carried out research on Decomposition and Nutrient Release and Eco-Restoration of Ecosystems in Central Himalaya. I served ICAR for forestry research and MoEF for environmental monitoring, appraisal of projects of the country. I retired from government service on 31.07.2018. In the NE Region at Shillong of MoEF, I established pilot projects for Acid Mine Discharge treatment in Coal mines and also took up work for developing a Chemical Profile Inventory of North East Region which has less industrial productivity but is highly ecologically sensitive region. It was a first ever comprehensive report in the country which provided all details of chemical management in all development sectors.

I initiated Reclamation programme for mining degraded areas in the Eastern Region (Chromite and Iron ore mining) and also coordinated transplantation programme of indigenous

local species in mining areas. I also completed a comprehensive exercise for developing a protocol for categorization of environmental safeguards in all kinds of development projects of India and a country level report was prepared (<http://moef.nic.in/downloads/public-information/Final-Report-to-BSG-03-10-11.pdf>). Number of environmental education and awareness programmes for school children were organized by me. A manual entitled, "Phytosociological study of vegetation of Shikonomori Park protected Forests: Project report (J- 1004188) JICA, Yokohama International Centre, Yokohama" developed by me is of great help to phytosociologists and reclamation ecologists in characterization and selection of plant species for rehabilitation of degraded lands. I am a professional with an approach that collective efforts always yield positive results.



Dr. V. P. Upadhyay

RESEARCH PUBLICATIONS OF V. P. UPADHYAY

(www.vpupadhyay.org)**Biodiversity Assessment**

1. Upadhyay, V.P. And S.P. Singh 1987. Environmental background and concept of eco-development (S.P.Singh ed.). Gaula catchment eco development project, Final Project Report, Dep. Env. Govt. of India. pp. 1-24.
2. Bargali, S.S., V.P. Upadhyay and R.P. Singh. 1988. Biomass, productivity and nutrient cycling of some energy tree plantations in sub- tropical and temperate regions of Kumaun Himalaya. DNES annual Project Report Dep. Forestry, Kumaun Univ. Naini Tal. 20p.
3. Tripathi, S. K., K.R. Verma and V. P. Upadhyay, 1987. Analysis of forest vegetation of Kasar Devi hill of north west Almora division in Kumaun Himalaya. **Proc. Indian Acad. Sci (Plant Sci)**. 97: 265-276.
4. Upadhyay, V.P., Jeet Ram and R.P. Singh, 1989. Analysis of herbaceous vegetation under *Quercus leucotrichophora* A. Camus, forests in Kumaun Himalaya. **Res. J. Plant Env.** 5: 41-46.
5. Tripathi, S.K., V.P. Upadhyay and K.R. Verma, 1989. A comparison of different indices of diversity in tree species in Kasar Devi forests in Kumaun Himalaya. **Vegetos**. 2: 86-93.
6. Chandra, R., V.P. Upadhyay and S.S. Bargali, 1989. Analysis of herbaceous vegetation under oak and pine forests along an altitudinal gradient in central Himalaya. **Env. and Ecol.** 7: 521-525.
7. Chandra, R., and V.P. Upadhyay, 1989. Phytosociology of herbaceous vegetation in foothill forests of central Himalaya. **Res. J. Plant and Env.** 5: 35-42.
8. Tripathi, S.K., R.S. Singh, V.P. Upadhyay and R.P. Singh, 1989. Population structure of *Pinus roxburghii* and *Quercus leucotrichophora* forests of Almora hills in Kumaun Himalaya. **J. Tree Sci.** 8: 78-80.
9. Pande, P., S.K. Tripathi and V.P. Upadhyay, 1989. Epiphytic Bryophytes on certain tree species of Aberfoyle mixed oak-conifer forest in Naini Tal. **Vegetos** 2: 127-133.
10. Rikhari, H.C., B.S. Rana, L.S. Lodhiyal and V.P. Upadhyay, 1989. Population structure of chir pine (*Pinus roxburghii* Sarg. forests in part of Kumaun Himalaya. **Indian J. Forestry** 12: 205-209.
11. Tripathi, S.K., V.P. Upadhyay and K.R. Velma, 1989. Diversity of shrub species at Kasar Devi forest in Kumaun Himalaya. **Env. and Ecol.** 7: 1989, 537-542.
12. Upadhyay, V.P., R.P. Singh and S.P. Singh, 1989. Central Himalayan Forests: An Ecological Research. **In: Advances in Forestry Research in India**. (Ed. Ram Prakash), International Book Distributors, Dehradun. 197-204.
13. Upadhyay, V.P., Jeet Ram and R.P. Singh, 1990. Ecology and environment of part of western Himalaya. **In: Advances in forestry research in India**. (ed. Ram Prakash), International book Distributors, Dehra Dun. pp. 205-11.
14. Singh, S.P., K. Pande, V.P. Upadhyay and J.S. Singh, 1990. Fungal communities associated with the decomposition of a common leaf litter (*Quercus leucotrichophora* A.Camus) along an elevational transect in the central Himalaya. **Biol. Fertl. Soils** 9: 245-251.

15. Singh, S.P., P.K. Ralhan, V.P. Upadhyay and G.C.S. Negi, 1990(April). Seasonal changes in stem diameter and leaf development in a tropical montane forest. **J. Vegetation Science** 1: 165-172.
16. Upadhyay, V.P., Sudhakar Kar and S.Ramakrishna Rao, 1992. Hamari Prakritik Sampada-Chilika. **Paryavaran** 4: 27-29.
17. Upadhyay, V.P., U. Sridharan and S. Kar, 1993. Bhitarkanika - Ek Adarsh Paristhithikaya Tantra. **Paryavaran** 5: 70-71.
18. Upadhyay, U. Sridharan and S.Ramakrishna Rao, 1994. Green house Prabhav Evam Vriksharopan. **Paryavaran** 6(4): 48.
19. Upadhyay, V.P., and N.L.N.S. Prasad. 1995. Andaman Evam Nicobar Dweep Samooh Mein Jan Jeevan (Hindi). **Paryavaran** 9:33-35.
20. Upadhyay, V.P., 1995. An ecological analysis of Himalayan Forest Ecosystems. In: Environment, change and Management. (Ed.R.C.Mohanty), Kamla Raj Publishers, New Delhi. pp. 62-69.
21. Upadhyay, V.P., 1997. Orissa Mein Vanya Praniyon Ka Paristhithikaya Star (Hindi). **Paryavaran**
22. Upadhyay, V.P., and R.C. Das, 1998. Biodiversity conservation and sustainable development. In: Biodiversity conservation: Problems and Prospects. (ed. H.K. Patra) Orissa Environment Society, Bhubaneswar. pp. 16-28.
23. Upadhyay, V.P. 2000. The Tropical Rain Forest Ecosystem of Andamans. **Sabujima** 69-80.
24. Mishra, R.K., V.P.Upadhyay and R.C. Mohanty, 2000. Niche width, diversity and distribution pattern of tree species in Similipal Biosphere reserve. **J. Indian Botanical Society** 79: 61-65.
25. Upadhyay, V.P., Rajiv Ranjan and J.S. Singh, 2002. The Human Mangrove Conflicts-The way out. **Current Science** 83: 1328-1336.
26. Upadhyay, V.P., 2002. Sustainable utilization and conservation of biodiversity. In: Proc. NATCUB-2002. pp. 414-419. Allied publishers Pvt. limited New Delhi.
27. Mishra, R.K., V.P.Upadhyay and R.C. Mohanty, 2003. Vegetation diversity of Similipal Biosphere reserve. **E-planet** 1 (1): 4- 9.
28. Upadhyay, V.P., B. S. Rana and R.K., Mishra 2003. Fine root productivity of two central Himalayan forest ecosystems. **Plant Science Res.** 25:21-25.
29. Mishra, R.K., Mohapatra, P.K., Upadhyay, V.P., BAL, S., and R.C. Mohanty, 2003. Diversity and Structural Composition of Trees of Buffer Areas of Similipal Biosphere Reserve, Orissa. In: **Proc. XII National Symp. on Environment**. BARC, Mumbai. Pp.485-492.
30. Mishra, R.K., R.C. Mohanty, and V.P. Upadhyay, 2003. [Population structure of dominant tree species in different disturbance gradients of Similipal Biosphere Reserve, Orissa.](#) In: **Proc. Abiotic stress on Plants**. (H. K. Patra Ed.) Utkal University Bhubaneswar. pp 81-86.
31. Mishra, P.K., J.R. Sahu and V.P Upadhyay, 2004. Population structure of dominant mangroves forest species in Bhitarkanika Ecosystem, Orissa. In: **Management of coastal ecosystem**. Utkal University, Bhubaneswar.pp.132-140.
32. Mishra, P.K., J.R. Sahu and V.P Upadhyay, 2004. Ecology of Bhitarkanika mangroves Orissa. In: **National Seminar on Ecology and Environmental Management: Issues and Research needs**. Department of Botany Kurukshetra Univ., Kurukshetra.22-23.
33. Upadhyay, V.P., B.S. Kharmawphlang and B.Laitthma 2005. Plants and people in Meghalaya. **Sabujima** 13:108-115.

34. Mishra, P. K., J. R. Sahu and V.P. Upadhyay 2005. Species diversity in Bhitarkanika mangrove ecosystem in Orissa, India. **Lyonia** 8: 73-81.
35. Mohanty, R.C. R.K. Mishra, S. Bal and V.P. Upadhyay 2005. Plant diversity assessment of shorea robusta dominated forest stands of Similipal Biosphere Reserve. **J. Indian Bot. Society** 84:21-29.
36. Mishra, R.K., V. P. Upadhyay, S. Bal, P. K. Mohapatra and R.C. Mohanty, 2006. Phenology of species of moist deciduous forest sites of Similipal Biosphere reserve. **Lyonia**. 11(1):5-17.
37. Upadhyay, P., P. K. Mishra and J. R. Sahu 2007. Biodiversity Resources of Bhitarkanika Mangrove ecosystem. **E-planet** 5(1):12-15.
38. Upadhyay, V. P., P. K. Mishra and J. R. Sahu 2008. Ecology of Bhitarkanika mangroves Orissa. **Trees for Life Journal** 3(4):1-5.
39. Upadhyay, V. P., P. K. Mishra and J. R. Sahu 2008. Vegetation structure and species distribution pattern of mangrove species in Bhitarkanika ecosystem, Orissa, India. **Asian Journal of Water, Environment and Pollution** 5(4): 69-76.
40. Mishra, R.K., V.P. Upadhyay and R.C. Mohanty 2008. Vegetation ecology of Similipal biosphere reserve, Orissa, India. **J. Applied Ecol. and Env. Research** 6:89-99.
41. Mishra, R.K., R.C. Mohanty and V.P. Upadhyay, 2008. Diversity Assessment and community patterns in relation to disturbance gradient in Similipal Biosphere Reserves, Orissa. In: Environmental Science and Technology in India (ed. Arvind Kumar and R.K. Somashekar) Daya Publishing House Delhi-110035
42. Upadhyay, V. P., P. K. Mishra and J. R. Sahu 2008. Population status of mangrove species in estuarine regions of Orissa coast, India. **Tropical Ecology** 49: 183-188.
43. Mishra, P. K. and Upadhyay, 2010. Phenology of mangroves tree species on Orissa coast, India. **Tropical Ecology** 51:289-295.
44. Upadhyay, V.P., Aigul K. Akhmetovva and T. Yagasaki, 2010. Phytosociological study of vegetation of Shikinomori Park protected Forests. Project report (J 1004188) JICA, Yokohama International Centre, Yokohama, Japan-230001 42p.
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47. Upadhyay. and P.K. Mishra 2014. An Ecological Analysis of Mangroves Ecosystem of Eastern Coast of India. **Proc. Indian National Sci. Acad.**, 80(3):647-661
48. Upadhyay, V. P., T. Yagasaki and S. Okuda, 2014. Application of quantitative approach on the analysis of oak-mixed forests in India and Japan. **Plant Science Research** 36 (1&2): 34-42.
49. Saio, V. and V. P. Upadhyay 2018. Sustainable development and biodiversity conservation in North-East India: A review. **Plant Science Research** 40 (1&2): 56-66.
50. Thoudam, J. S., V. Saio, Shahida P. Quazi and V. P. Upadhyay 2019. Growth Performance of *Araucaria cunninghamii* planted in a modified habitat in Shillong. **Sabujima** 27: 12-15.
51. Dash, Ashis, V.P. Upadhyay and H.K. Patra, 2020. Floristic assessment of Semi Evergreen forests of a peripheral site in Hadagarh Sanctuary, Odisha, India. **Int. J. Biodiversity Conservation** 12:104-112.

52. Dash, Ashis, V.P. Upadhyay and H.K. Patra, 2021. Ethno- botanical assessment of plant species of Hadagarh wildlife Sanctuary, Odisha, India. **Geo Eco Trop.** 45: 375-382.
53. Dash, Ashis, V.P. Upadhyay and H.K. Patra, 2021. Assessment of Tree Diversity of Forests in Hadagarh Sanctuary, Odisha, India. **Environment and Ecology** 39 (1A): 271—280.
54. Upadhyay, V.P. B.K. Nayak and M.K. Mishra 2022. Ecology of village ecosystems of Odisha, India. **Asian Journal of Ethnobiology** 5: 138-155.
55. Nayak, B. K., M. K. Mishra and V. P. Upadhyay 2023. Agroecosystem Sustainability in Forest Dependent Tribal Villages in Odisha, Eastern India. **Asian Journal Environment. & Ecology** 22: 61-85.
56. Nayak B.K., Mishra M.K. and V.P. Upadhyay 2023. Evaluation of Productivity and Sustainability of Niyamgiri Village Agroecosystem, Eastern Region India. **J. Agri. Earth & Environmental Sciences** 2(4): 01-17.
57. Nayak B.K., Mishra M.K. and V.P. Upadhyay 2023. Energy flow management to enhance cost-effective crop production in Hilly Tribal Villages - Southern Odisha, India. **Journal of Ecology and the Natural Environment** 15(3): 61-84.

Reclamation and Restoration

58. Reddy, V.S., V.P. Upadhyay and R.P. Singh, 1988. Soil and vegetation analysis. In: Recovery of damaged forest ecosystems in Kumaun Himalaya, (Eds. J.S. Singh and R.P. Singh) Dep. Forestry, Kumaun Univ. Naini Tal. Dep. Environment, Govt. Of India, New Delhi. pp. 5-37.
59. Loshali, D.C., V.P. Upadhyay and R.P. Singh 1988. Hydrologic responses in certain landslide affected areas in Kumaun Himalaya. In: Recovery of damaged forest ecosystems in Kumaun Himalaya (eds. J.S. Singh and R.P. Singh) Dep. Forestry, Kumaun Univ. Naini Tal. Dep. Environment, Govt. of India, New Delhi. pp. 38-61.
60. Chaudhary, Smita, V.P. Upadhyay and R.P. Singh 1988. Ecology of certain pioneer and other promising species relevant to recovery of landslide damaged sites. In: Recovery of damaged forest ecosystems in Kumaun Himalaya (eds. J.S. Singh and R.P. Singh) Dep. Forestry, Kumaun Univ. Naini Tal. Dep. Environment, New Delhi. pp. 62-99.
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62. Loshali, D.C., V.P. Upadhyay, R.P. Singh and J.S. Singh, 1990. Overland flow and soil movement from forests in Kumaun Himalaya. **Can. J. Forest Res.** 20: 606-608.
63. Upadhyay, V.P., R.P. Singh and B.S. Rana, 1997. Soil respiration in disturbed forest ecosystems of central Himalaya. **Indian Forester.** 123: 77-81.
64. Rajiv Ranjan, and Upadhyay, V.P., 1999(Nov). Ecological problems due to shifting cultivation. **Curr. Sci.** 77: 1246-1250.
65. Upadhyay, V.P., and D Gouda 2001. Regulations for reclamation and restoration of mined out areas. **In: Proc. Workshop on Reclamation and rehabilitation of Mined out areas.** SGAT, Bhubaneswar, pp.16-17.
66. Upadhyay, V.P., T.K. Mishra and Rabindra Mishra, 2003. Improvement in ecological attributes by vegetation development in a fly ash disposal area. **In: Proc. National**

seminar on Environmental influence on soil response and structural behaviour.
Andhra University, Visakhapatnam, pp.50-51.

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68. Upadhyay, V.P. 2011. Reclamation of degraded mining lands in eastern region of India: An action plan. **Prakruti Vikas** 15-20 (March, 2011).
69. Upadhyay, V. P. 2012. [Eco-restoration technology for lands degraded due to opencast Chromite and Iron ore mining in Odisha](#). In: Souvenir, 4th Ramdeo Misra memorial centenary lecture. **National Institute of Ecology and Orissa Environment Society**, Bhubaneswar.
70. Behura, Sudhamayee, M. Kar & V.P. Upadhyay 2015. Phytosociological Study of herbs species at two reclaimed sites of Sukinda Chromite mining region of Odisha, India. **Geo-Eco-Trop.** 39, 2: 329-342
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Forest Ecosystem Nutrient dynamics

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