Curriculum Vitae

Dr. C.S.P. Ojha

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ACADEMIC QUALIFICATIONS

- Ph.D. (Environmental Hydraulics), Imperial College of Science, Technology and Medicine, London, U.K., 1993. (Oct. 1990-Sept. 1993)
- M.E. (Hydraulics and Water Resources) with Honours, Indian Institute of Science, Bangalore, 1984.
- B.E. (Civil) with Honors, Gorakhpur University, 1982.

EMPLOYMENT HISTORY

- Head of Civil Engineering Department, IIT Roorkee (April 2015–March 2019)
- Adjunct Professor, (Civil and Environmental Engineering), University of Missouri, Columbia, USA (September 2018-August 2020)
- Institute Chair Professor, IIT Roorkee (since June 2018)
- Professor, Civil Engg., IIT Roorkee (since Feb. 2004)
- Curtis Visiting Professor, Civil Engg., Purdue University, USA (Aug 2012-June 2013)
- Visiting Professor (Geo-Environmental Engg), Civil Engg., AIT Bangkok (Aug-Nov. 2004)
- Associate Professor, Civil Engineering, IIT Roorkee (Feb. 2001-Jan. 2004)
- Assistant Professor, Civil Engineering, Univ. of Roorkee (April, 1996-Feb. 2001)
- Lecturer, Civil Engineering, Univ. of Roorkee, U.P., 247 667, India (from Jan.1986 to April, 1996)
- Lecturer, Civil Engineering, Indian Institute of Technology, BHU, Varanasi, U.P., 221 005, India (from July 1984 to Jan. 1986)

FIELD OF SPECIALIZATION

Modeling of Environmental and Water Resources Engineering Systems

CURRENT RESEARCH INTERESTS

Flow and Contaminant Transport, Soil Moisture Uptake by Plants, Environmental & Fluvial Hydraulics, Surface Water and Ground Water Hydrology, Hydrologic Processes, Water Resources Management under Climate Change

ADMINISTRATIVE BAKGROUND

- Member, Board of Governors (BOG), IIT Roorkee, Jan 2023 – Dec 2023.
- Head, Department of Civil Engineering, IIT Roorkee April 2015 – March 2019**.**
- Nodal Officer, Centralized Grievance Redress and Monitoring (CGRAM), IIT Roorkee 2021-2025.

PROFESSIONAL SERVICE

1. **Co-Chairman**, ASCE-EWRI IPWE Bhopal Conference 2025.
2. Member, Board of Evaluation (BoE) for National Institute Geo-Informatics, Science and Technology (NIGST), Hyderabad, June 2024.
3. **Editor in Chief**, Journal of Indian Water Resources Society, since 2024.
4. **Guest Editor** for special issue "Sustainable Water Resources Management and Water Supply- Extension", Sustainability Journal, 2024.
5. **Coordinator**, Working Group for Draft for Specification for Plastic Underground Inspection Chambers and Manholes and ancillary structure, (CED24: WG06), March 2024
6. **Chairperson**, BIS Sectional Committee on Glacier Lake Outburst Floods (GLOFs) and Landslide lake Outburst Floods (LLOFs), Feb 2024.
7. **Guest Editor** for special issue, Journal of Water and Climate Change, 2023.
8. **Member**, Expert Committee HP flood disaster Management Committee July 2023.
9. **Panelist in Panel Discussion**: Advancing New Methods for the Treatment of Climate Change and Extreme Events a session on climate change adaptation in World Environmental and Water Resources Congress at Las Vegas, USA, May 21 - 24, 2023.
10. **Member** of EWRI Water Supply, Treatment and Distribution Committee, ASCE, 2023-24.
11. **Guest Editor** for special issue "Sustainable Water Resources Management and Water Supply", Sustainability Journal, 2023.
12. **Vice Chairman** of ASCE Task Committee on Intermittent Water Distribution Systems, 2023-24.
13. **Member** Expert Group, Brahmputra Board, Ministry of Jal Shakti, Itanagar, October 2021
14. **Associate Guest Editor**, Environmental Water Quality, Frontiers in Water, since Feb 2021.
15. **Member,** Indian Road Congress Committee on Bridge Hydraulics, since 2021.
16. **Member,** Australia India Water Centre, since 2020.
17. **Member**, Public Health Engineering Sectional Committee, Bureau of Indian Standards, since 2019.
18. **Member** of working group for revision of IS 5822:1994 Code of Practice for Laying of Electrically Welded Steel Pipes for Water Supply, Bureau of Indian Standards, since Dec. 2019
19. **Member** of working group for revision of IS 1172:1993 on Code of Basic Requirements for Water Supply and Drainage since Dec. 2019
20. **Coordinator** for revision of IS 2470 (Part 1):1985 Code of Practice for Installation of Septic Tanks: Part 1 Design Criteria and Construction, Bureau of Indian Standards, since Dec. 2019

21. **Coordinator** for revision of IS 2470 (Part 2):1985 Code of Practice for Installation of Septic Tanks: Part 2 Secondary Treatment and Disposal of Septic Tank Effluent, Bureau of Indian Standards, since Dec. 2019
22. **Coordinator** for revision of IS 8413 (Part 1):1977 Requirements for Biological Treatment Equipment: Part 1 Trickling Filters, Bureau of Indian Standards, since Dec. 2019
23. Represented India in UNESCO workshop for framing syllabus of Water Education in Asia and South Pacific, Jakarta, Sept. 2019
24. **Coordinator** for framing syllabus of PG Education in Civil Engineering in India, AICTE, April 2017-Feb 2018.
25. **Guest Editor** for Special Issue of ASCE, Journal of Hazardous, Toxic and Radioactive Waste on "Hazardous and Toxic Pollutants in the Air", 2016
26. **Member**, Indo-UK Virtual Water Centre, MoES-NERC, 2016
27. **Member,** Committee of Experts for improving the existing guidelines on Sand Mining, Ministry of Envrionment, Forests & Climate Change, 2014
28. **Member**, Editorial Board, Open Journal of Atmospheric and Climate Change, since 2013
29. **Member** of International Advisory board, Journal of Ground Water Research, (since 2013)
30. **Expert Member** of PhD Committee, Purdue University (2013-14)
31. **Member Editorial Board**, Journal of Irrigation and Drainage System Engineering, (since 2013)
32. **Guest Editor** for Special Issue of ASCE, Journal of Hazardous, Toxic and Radioactive Waste on "Toxics and Pathogens in Environment", April 2012.
33. **Associate Editor** for ASCE, Journal of Hazardous, Toxic and Radioactive Waste, since March 2010.
34. **Guest Editor** for a Special Issue on Climate Change and its Implications for developing economies, The Open Journal of Hydrology, Bentham Science, Publishers, 2009-2010
35. **Member,** Editorial Board, The Open Journal of Hydrology, Bentham Science Publishers, USA, since April 2009
36. **Expert member**, Bureau of Indian Standards, since Sept 2009
37. **Member**, **Editorial Board**, Journal of Indian Association of Environmental Management, since June 2004 for three years
38. **Editor**, Journal of Indian Water Resources Society for a term of two years (May 2003-April 2005).
39. **Chaired** 3 Sessions and Co-chaired one session at 4th International Slow Sand and Alternative Biological Filtration Conference, May 2006, IWW Mulheim, Germany; Co-chaired one session at EU-India International Conference on River Bank Filtration, Nov. 2006, IIT Roorkee
40. **Expert member**, PhD advisory committee, Civil Engineering, University of Auckland, New Zealand, Sept. 2006 for three years.
41. **Scientific partner** for Cooperation Centre on River Bank Filtration at Haridwar (An Indo-German Initiative) during 2004-05.
42. **Fellow** of Indian Society of Hydraulics, since April 2004.
43. **Member,** ASCE since July 1999
44. **Member**, Editorial Board, IAH (Indian Association of Hydrologists), Journal of Hydrology, since July 1996 for three years.
45. **Member, Panel of experts**, Environmental Engineering Division of Institution of India since 1995
46. **Life Member**, Indian Society for Technical Education (since 1984).

SUBJECTS TAUGHT

- Unsaturated flow through soils (Purdue University, USA) during 2012-2013
- Climate Change detection (Purdue University, USA) during 2012-2013
- Geo-environmental Engineering (AIT Bangkok) during 2004
- Irrigation and Drainage, Engineering Hydrology, Fluid Mechanics, Hydraulic Structures, Hydropower Engineering, Free surface flows, Ground water Engineering, Computational Methods in Water Resources at IIT Roorkee, India since 1986
- Fluid Mechanics, and Environmental Engineering at IIT BHU, Varanasi, India in 1984-1985

AWARDS

- Vth Position, U.P. Board's Intermediate Examination, 1978 (the rank was among one quarter million candidates; as per the existing provisions in 1978, the position entitled for direct admission to IIT at an undergraduate level).
- University Gold Medal, B.E. Examination, 1982 (secured highest marks in all branches of engineering)
- First rank in M.E. (Hydrodynamics and Water Resources); also third rank in M.E.(Civil) Examination, 1984
- Prof. R.C. Singh Gold Medal (best design paper award) from Environmental Engineering Division of Institution of Engineers, INDIA in 1988-89
- Common Wealth Research Scholarship Award (1990-1993) for higher studies from Association of Commonwealth Universities, U.K.
- The Nawab Zain Dar Jung Bahadur Memorial Prize (best research paper award) from Environmental Engineering Division of Institution of Engineers, INDIA for year 1991-1992.
- Young Engineer Award from Central Board of Irrigation and Power in India, 1996. (The award was given in recognition of the work done in the area of water resources and environmental engineering).
- Young Teachers Career Award of All India Council of Technical Education, 1997. (The award was given in recognition of the overall contributions in the area of water resources and environmental engineering and for promoting further research in this area).
- Alexander von Humboldt Research Fellowship Award, 2001-2002. [The award was given to model the performance of water treatment works (with particular reference to filtration units) in Germany based on experiences in India].
- Recipient of American Society of Civil Engineers (ASCE) Research Paper Awards, 2001.
- Recipient of S. S. Sanyal Medal from Institution of Engineers, INDIA for the best research paper published in the area of Water Supply and Sanitation, 2005
- Recipient of Shri S.V. Patwardhan Memorial Prize of Indian Water Works Association in 2007 (for the best research paper published in J. IWWA in year 2006)
- Recipient of Jal Vigyan Puraskar of Indian Society of Hydraulics in 2007 (for the best research paper published in J. Indian Society of Hydraulics in year 2006)
- Distinguished Visiting Fellowship of Royal Academy of Engineering, U.K. in 2008-09
- Recipient of American Society of Civil Engineers (ASCE) Research Paper Awards, 2009.
- Visiting International Fellowship of ASCE in 2010
- Recipient of American Society of Civil Engineers (ASCE) Research Paper Awards, 2010
- JSPS (Japan Society for Promotion of Science) Invitation Fellowship to visit Japan in 2010-2011.

- BCEEM, awarded by American Academy of Environmental Engineers, 2011
- EM Curtis Visiting Professorship, awarded by Purdue University, 2012
- Recipient of American Society of Civil Engineers (ASCE) Research Paper Awards, 2013
- S.N. Gupta Memorial Lecture Award by Indian Society of Hydraulics, 2013
- State of the Art Award in Civil Engineering, ASCE, 2014
- Fellow ASCE, 2017, ASCE
- Recipient of American Society of Civil Engineers (ASCE) Research Paper Awards, 2018
- Institute Chair Professor, IIT Roorkee (since June 2018)
- Adjunct Professor (Civil and Environmental Engineering), University of Missouri, Columbia, USA (September 2018- Aug.2020)
- Fellow, Indian National Academy of Engineering, since Nov 2020
- A.S. Arya Institute Chair Professor, IIT Roorkee (since Nov. 2020)
- Jal Vigyan Puraskar 2021, Indian Society for Hydraulics, 2021
- Best Practice-Oriented Paper Award 2022, Environmental and Water Resources Institute, (EWRI-ASCE)
- ASCE Research Paper Award, ASCE, 2022
- Editor's choice article in the journal ASCE HRTW, 2023

PATENT:

Anjali and Ojha, C. S. P. A Fixed Depth Horizontal Soil Profile Sampler. Patent Application no.- 202311027263, Patent No.-476627 Filing Date: 13/04/2023, Status: Granted, Country: India.

BOOKS:

1. Singh, V.P., Sharma, N., and C.S.P.Ojha, "Brahmaputra Water Resources System", Kluwer Publishers, Feb. 2004
2. C.S.P.Ojha, R.Berndtsson and P.K.Bhunya, "Engineering Hydrology", Oxford University Press, New Delhi, March 2008, 450 pages
3. Introduction to Air Pollution: Health and Environmental Impacts", B.R.Gurjar, M.T.Molina, and C.S.P.Ojha (Eds), Taylor and Francis, USA, June 2010, pp.1-532.
4. C.S.P.Ojha, R.Berndtsson, and P.N.Chandramoulli, "Fluid Mechanics and Fluid Machinery", Oxford University Press, New Delhi, October 2010, 996 pages.
5. R.K.Rai, A.Upadhyay, C.S.P.Ojha and V.P.Singh, "Yamuna River Basin: Water Resources and Environment", Springer Publishers, Oct. 2011, 422 pages
6. R.Y. Surampalli, T. C. Zhang, C.S.P.Ojha, B.R.Gurjar, R.D.Tyagi, and C.M.Kao (Eds), "Climate Change Modeling, Mitigation, and Adaptation", ASCE, Feb 2013.
7. Rao Y Surampalli, Tian C Zhang, RD Tyagi, Ravi Naidu, BR Gurjar, CSP Ojha, Song Yan, Satinder K Brar, Anushuya Ramakrishnan, "Carbon Capture and Storage", ASCE, Jan 2015
8. Ojha, C.S.P., Rao Y Surampalli, Bardossy, A., Tian C. Zhang, and Kao, C.M. " Sustainable Wáter Resources Management", ASCE, publication year, 2017
9. M.S.Chauhan, and C.S.P.Ojha (Eds). "The Ganga River Basin: A Hydrometeorological Approach", Springer, January 2021.
10. Kasiviswanathan, K. S., Soundharajan, B. S., Patidar, S., He, J. and Ojha, C. S. P. (2023). Modeling and Mitigation Measures for Managing Extreme Hydrometeorological Events Under a Warming Climate. Elsevier, May 2023.
11. Tyagi, V. K. and Ojha, C. S. P. Landfill Leachate Management. IWA Publishing, September, 2023.
12. Singh, K. K. and Ojha, C. S. P. Sustainable Management of Land, Water and Pollution of Built-up Area. 978-3-031-56176-4 Springer, May, 2024.
13. Rai, R. K., Ojha, C. S. P. and Singh, V. P. Handbook of Applied Hydrologic and Water

Resources Engineering. 9781003478218 CRC Press, January, 2025.

BOOK CHAPTERS:

1. Ojha, C.S.P. and Graham, N.J.D (1994). Modeling of Slow Sand Filters. Am. Wat. Wks. Ass.
2. Ojha, C.S.P. and Graham, N.J.D. (1996). Modelling the Role of Schmutzdecke Layer in Slow Sand Filtration. John Wiley & Sons
3. Ojha, C.S.P. and Graham, N.J.D. (1996). Numerical assessment of Microbial Interactions in Slow Sand Filtration. John Wiley & Sons
4. Ojha, C.S.P. (2002). Wastewater Renovation Using Soil Aquifer Treatment System. World Scientific Publishing Co. Pte. Ltd.
5. Ojha, C.S.P. and Singh, V.P. (2002). Storm Water Drainage and Effluent Disposal. EOLSS Publishers Co. Ltd.
6. Ojha, C.S.P. and Singh, V.P. (2002). ANN Modelling in Watershed Hydrology. Water Resources Publishers
7. Ojha, C.S.P. and Singh, V.P. (2002). Models of Water Balance in a Small Water Shed. Water Resources Publishers
8. Goswami, P.K., Sharma, N. and Ojha, C.S.P. (2004). Irrigation Development. Kluwer Publishers
9. Ojha, C.S.P. and Singh, V.P. (2004). Introduction to Brahmaputra Water Resources. 978-90-481-6481-3 Springer
10. Sharma, N., Chakravorty, R. and Ojha, C.S.P. (2004). Spatio-temporal Morphological Features. Kluwer Publishers
11. Ojha, C.S.P., Sharma, N. and Talwar, V.K. (2004). Scour around spurs at Gumi Site. Kluwer Publishers
12. Jha, R., Ojha, C.S.P. and Bhatia, K.K.S. (2006). Assessment of Pollution Outflow from Large Agricultural Areas. John Wiley & Sons Inc.
13. Jha, R., Singh, V.P., Ojha, C.S.P. and Bhatia, K.K.S. (2006). Surface Water Pollution. John Wiley & Sons Inc.
14. Jha, R., Ojha, C.S.P. and Bhatia, K.K.S. (2006). Dilution-Mixing Zones and Design Flows. John Wiley & Sons Inc.
15. Gurjar, B.R., Molina, M.T. and Ojha, C.S.P. (Eds) (2010). Air Pollution: Health and Environmental Impacts.. Taylor and Francis, USA
16. Ojha, C.S.P., Mena, M., Guttikunda, S., Gurjar, B.R. and Molina, L.T. (2010). Air Pollution Modeling: Theory and Applications. Taylor and Francis
17. Surampalli, R.Y., Gurjar, B.R., Zhang, T. and Ojha, C.S.P. (2013). Climate Change Modeling, Mitigation, and Adaptation. ASCE
18. Gurjar, B.R., Ojha, C.S.P., Surampalli, R.Y., Walvekar, P.P. and Tyagi, V. (2013). Greenhouse Gas Emissions and Climate Change – An overview. ASCE
19. Gurjar, B.R., Ojha, C.S.P., Surampalli, R.Y., Walvekar, P.P. and Tyagi, V. (2013). Greenhouse Gas Emissions from different sources. ASCE
20. Goyal, M. K., Ojha, C.S.P., Burn, D. H., Surampalli, R. Y. (2013). Statistical downscaling of precipitation and temperature for a lake basin. ASCE
21. Pandey, R.P., Kumar, R., Singh, R.D. and Ojha, C.S.P. (2013). Essence of Climate Change. ASCE
22. Rai, R. K., Upadhyay, A., Ojha, C. S. P. and Lye, L. M. (2013). Statistical Analysis of Hydro-Climatic Variables. ASCE
23. Ciumasu, I.M., Costica, M., Secu, C.V., Gurjar, B.R. and Ojha, C. S.P. (2013). Adapting to Climate Change. ASCE
24. Gurjar, B.R., Ojha, C.S.P., Surampalli, R. Y., Zhang, T.C. and Walvekar, P.P. (2015). Carbon Capture and Storage: An Overview. ASCE
25. Chandel, M.K., Gurjar, B.R., Ojha, C.S.P.and Surampalli, R. Y. (2015). Modelling and Uncertainty Analysis of Transport and Geological Sequestration of CO2. ASCE
26. Gurjar, B. R., Ojha, C. S. P., Surampalli, R. Y., Zhang, T. C., & Walvekar, P. P. (2015). Carbon Capture and Storage: An Overview. ASCE

27. Ojha, C.S.P., Prasad, K.S. H., Singh, V.P. and Thakur, A.K. (2016). A chapter on River Bank Filtartion in Hand Book of Hydrology. McGraw Hill
28. Goyal, M. K., Ojha, C. S. P., Surampalli, R. Y., & Choudhury, A (2016). Adapting to Climate Change: Water Management Strategy. ASCE
29. Pathak, S., Ojha, C. S. P., Zevenbergen, C., and Garg, R. D. (2016). Assessing Stormwater harvesting potential in Dehradun city using Geospatial technology. Springer
30. Shukla, A. K., Ojha, C. S. P., and Garg, R. D. (2016). Application of Overall Index of Pollution (OIP) for the Assessment of the Surface Water Quality in the Upper Ganga River Basin, India. Springer
31. Gupta, A., Ojha, C. S. P., and Kumar, A. (2016). Comparison of Various Functional Forms for Wheat Crop Yield in Kanpur Nagar (Uttar Pradesh). Springer
32. Pathak, S., Ojha, C. S. P., Zevenbergen, C., and Garg, R. D. (2016). Hydrological Planning of Watershed of RGSC, Mirzapur, U.P, Using GIS Techniques. Springer
33. Ojha, C.S.P. , Surampalli, R.Y., Bardossy, A., Zhang, T.C. and Kao, C.M. (2017). Sustainable Water Resource Management: An Introduction. ASCE
34. Ojha, C. S. P., Lohani, A.K., Adeloye, A. and Jain, S. K. (2017). Surface Water Data Collection and Processing. A Chapter. ASCE
35. Lohani, A.K., Ojha, C. S. P., and Jain, S. K. (2017). Fuzzy Logic in Multi-Objective Decision Making and Hydrological Modelling. ASCE
36. Goyal, M. K., Ojha, C. S. P. and Burn, D. H. (2017). Machine Learning Algorithms and their Application in Water Resources Management. A Chapter. ASCE
37. Elbasit, M. A. M. A., Adam, E. O., AbuTaleb, K., Ahmed, F., Yasuda, H. and Ojha, C. S. P. (2017). Space-borne Rainfall Measurement over Arid Regions. A Chapter. ASCE
38. Singh, R. P., Fu, D. and Ojha, C. S. P. (2017). Water sustainable urban designs. A Chapter in Sustainable Water Resources Management. ASCE press
39. Pandey, R. P., Kumar, R., Singh, R. D., Ojha, C. S. P. and Adeloye, A. J. (2017). Assessment of Surface Storage Requirement for Mitigating Drought. ASCE press
40. Shankar, V., Ojha, C.S.P., Govindaraju, R. S., Prasad, K.S.H., Adebayo, A. J., Madramoottoo, C.A , Shrivastava, R. and Singh, K.K. (2017). Optimum Use of Irrigation water. A Chapter in Sustainable Water Resources Management. ASCE
41. Suryavanshi, S., Pandey, A., Chaube, U.C., Mishra, S. K., Ojha, C. S. P. and Buytaert, W. (2017). Integrated Water Resources Management of Ken-Betwa Link. ASCE
42. Arora, H., Ojha, C.S.P. and Chandniha, S.K. (2017). Assessment of Water Sustainability through Reliability-Resilience-Vulnerability (RRV) concept using Reconnaissance Drought Index (RDI). ASCE
43. Chauhan, M. S. and Ojha, C. S. P. (2020). Ganga River Basin: A Hydrometeorological Approach. Springer
44. Shukla, A. K.m Ojha, C. S. P., Shukla, S. and Garg, R. D. (2021). Water Quality Challenges in Ganga River Basin, India. Springer
45. Thakur, A.K., Ojha, C.S.P., Singh, V. P., Kashyap, V. and Chaudhury, B.B. (2021). River Bank Filtration in Indo-Gangetic Basin. Springer
46. Kumar, A. and Ojha, C. S. P. (2021). Review on the Field Applications of River Training Structures for River Bank Protection. Springer
47. Pal, L. and Ojha, C.S.P (2021). Identification of relationship between precipitation and atmospheric oscillations in Upper Ganga basin. Springer
48. Swetapadma, S. and Ojha, C.S.P (2021). Plotting Positions for the Generalized Extreme Value Distribution: A Critique. Springer
49. Pathak, S., Ojha, C.S.P. and Garg, R. D. (2021). Applicability of the InVEST model for estimating water yield in Upper Ganga Basin. Springer
50. Sharma, C. and Ojha, C. S. P. (2021). Detection of changes in 20th century precipitation in the Ganga River Basin. Springer
51. Sharma, C. and Ojha, C. S. P. (2021). Study of 21st Century Precipitation and Temperature Trends Over Ganga River Basin. Springer
52. Pal, L. and Ojha, C. S. P. (2021). Characteristics of Soil Moisture Drought in Ganga River Basin during 1948-2015. Springer

53. Pal, L., Ojha, C.S.P. and Kumar, A. (2021). Characteristics of GLDAS Evaportranspiration and its response to climate variability across Ganga Basin, India. Springer
54. Ratha, D., Babbar, R., Hariprasad, K. S., Ojha, C. S. P., Baranwal, M., Rout, P. R. and Parihar, A. (2023). Mathematical Transport System of Microconstituents In: Microconstituents in the Environment: Occurrence, Fate, Removal and Management. 9781119825258 John Wiley & Sons, Inc.
55. Swetapadma, S. and Ojha, C.S.P (2023). A comparison between partial duration series and annual maximum series modeling for flood frequency analysis In: Developments in Environmental Science. Elsevier
56. Gunjyal, N., Ojha, C. S. P. and Tyagi, V. K. (2023). Prevalence of antibiotics and antibiotic resistance genes in landfill leachate. IWA Publishing
57. Singh, M., Ali, M., Zargar, N., Tyagi, V. K., Kazmi, A. A. and Ojha, C. S. P. (2023). Landfill leachate management. IWA Publishing
58. Bhagwat, A. and Ojha, C. S. P. (2023). Efficient and economical landfill leachate management with phytoremediation. IWA Publishing
59. Singh, L., Ojha, C. S. P., Khare, D. (2024). Landslide Susceptibility Assessment Using Mathematical Modeling in GIS for Uttarakhand, India. In: Singh, K.K., Prasad Ojha, C.S. (eds) Sustainable Management of Land, Water and Pollution of Built-up Area. Society of Earth Scientists Series. 978-3-031-56175-7 Springer

RESEARCH PUBLICATIONS

International Journals (SCI journals in bold) :

1. **Bhargava, D. S., and Ojha, C. S. P. (1989). "Theoretical analysis of backwash time in rapid sand filters." Water Research, 23(5), 581-587. IF-6.769**
2. Bhargava, D. S., and Ojha, C. S. P. (1990). "Rational design of washwater gutters." Transactions of the Institution of Engineers, Australia. Civil engineering, 32(4), 178- 186.
3. Bhargava, D. S., and Ojha, C. S. P. (1990). "A new and rational model for backwash velocity." Transactions of the Institution of Engineers, Australia. Civil engineering, 32(4), 187- 198.
4. **Bhargava, D. S., and Ojha, C. S.P. (1990). "Genesis of free hydraulic jumps for better mixing", Water Research, 24(6), 1003-1010. IF- 6.769**
5. **Swamee, P. K., and Ojha, C. S. P. (1990). "Pump Test Analysis of Confined Aquifer." ASCE Journal of Irrigation and Drainage Engineering, 116 (1), 99-106. IF-1.02**
6. **Swamee, P. K., and Ojha, C. S. P. (1990). "Pump Test Analysis of Leaky Aquifer", ASCE Journal of Irrigation and Drainage Engineering, 116 (4), 645-655. IF-1.02**
7. **Swamee, P. K., and Ojha, C. S. P. (1991). "Modeling of BOD Exertion Curve." Water Research, 25(7), 901-902. IF- 6.769**
8. **Swamee, P. K., and Ojha, C. S. P. (1991). "Drag Coefficient and Fall Velocity of Non-Spherical Particles." ASCE Journal of Hydraulic Engineering, 117(4), 660-669. IF-1.56**
9. **Swamee, P. K., and Ojha, C. S. P. (1991). "Bed-Load and Suspended-Load Transport of Nonuniform Sediments." ASCE Journal of Hydraulic Engineering, 117(6), 774-787. IF-1.56**
10. **Ojha, C. S. P., and Graham, N. J. D. (1992). "Computer Aided Solutions of Filtration Equations." Water Research, 26(2), 145-150. IF-6.769**
11. Bhargava, D. S., and Ojha, C. S. P. (1992). "Headloss Prediction in Operating Rapid Sand Filters." Trans. Civ. Engrg., Inst. of Engrs., Australia, 34 (3), 237-245.
12. **Ojha, C. S. P., and Graham, N. J. D. (1992). "Appropriate Use of Deep Bed Filtration Models." ASCE Journal of Environmental Engineering, 118(6), 964-980. IF-1.12**
13. Ojha, C. S. P., and Graham, N. J. D. (1992). "Use of Exact Continuity Equation in the Optimization of Deep Bed Filter Runs." Trans. Civ. Engrg., Inst. of Engrs., Australia, 34 (4), 303-308.
14. **Ojha, C. S. P., and Graham, N. J. D. (1993). "Theoretical Estimates of Bulk Specific Deposit in Deep Bed Filters." Water Research, 27(3), 377-387. IF-6.769**
15. **Bhargava, D. S., and Ojha, C. S. P. (1993). "Models for Design of Flocculating Baffled Channels." Water Research, 27(3), 465-475. IF-6.769**

16. **Ojha, C. S. P., and Graham, N. J. D. (1994). "Computer-Aided Simulation of Slow Sand Filter Performance." Water Research, 29(5), 1025-1030. IF-6.769**
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65. Vijay Shankar, Ojha, C.S.P., Hari Prasad, K.S, ".Phytoremediation-An Environmentally Sustainable Solution to Soil Infertility Cataclysm.", National Conference on "Technology for Disaster Management", (TDM-06), September 28th-29th, 2006. National Institute of Technology, Hamirpur, HP, (India), 337-344.
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67. Vijay Shankar, Hari Prasad, K.S., Ojha, C.S.P., "Root Zone Moisture Depletion Based Irrigation Scheduling for Cash, Oil and Forage Crops using Simulation Modelling", International Conference on "Hydrology and Watershed Management" (Ichwam-2006), December 5th-8th, 2006. CWR, IST, Jawaharlal Nehru Technological University, Hyderabad, India, pp 886-895.

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69. C.S.P.Ojha, "Water year 2007: Issues and priorities", National conference on "Civil Engineering and Technology: Emerging Frontiers", ITBHU, Varanasi, January 27-28, 2007 (Invited Keynote paper)
70. Vijay Shankar, CSP Ojha, K.S. Hari Prasad, ".Evaluation of Plant Moisture Extraction for Different Type of Soils using Simulation Modelling.", 6th International R&D Conference 'Sustainable Development of Water and Energy Resources – Needs and Challenges', 13th-16th February 2007, Lucknow (Uttar Pradesh), India.
71. C.S.P.Ojha, A.K.Thakur, T.Grischek and B.R.Gurjar, "Clogging of river bank filtration sites: A case study from Haridwar", Indo-German workshop on Selection of RBF sites, Ahmedabad, NIST, Sept. 18-19, 2008 [Invited paper]
72. R.P.Singh, M.Barman and C.S.P.Ojha , "Modelling of Dissolved Oxygen Behaviour in fast moving shallow hilly streams", International Conference"Water, Environment, Energy and Society" (WEES-2009), New Delhi, 12-16 January 2009, 1171-1178
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75. A.K.Thakur, C.S.P.Ojha, T.Grischek, C.Ray and R.Jha , "River Bank Filtration in Extreme Environmental Conditions", International Conference"Water, Environment, Energy and Society" (WEES-2009), New Delhi, 12-16 January 2009, pp. 1340-1347.
76. P.N.Chandramoulli, K.S.Hari Prasad, C.S.P.Ojha and Talari Venkata Gopal, "Determination of unsaturated Soil Parameters from Infiltration Experiments Using Inverse Procedure", International Conference"Water, Environment, Energy and Society" (WEES-2009), New Delhi, 12-16 January 2009, 184-187.
77. V.K.Dwivedi, C.S.P.Ojha, and V.K.Choubey , "Quantification of urban runoff reaching to the upper Bhopal lake, M.P., India", International Conference"Water, Environment, Energy and Society" (WEES-2009), New Delhi, 12-16 January 2009, 308-316
78. S.A.Alemayehu, K.S.Hari Prasad and C.S.P.Ojha, "Estimation of Partially Penetrated Aquifer Parameters from Pumping Test Data by Genetic Algorithm Optimization Technique", International Conference "Water, Environment, Energy and Society" (WEES-2009), New Delhi, 12-16 January 2009, 481-485
79. Vijay Shankar, K.S.Hari Prasad and C.S.P.Ojha, "Optimal Irrigation Schedules based on simulated soil-moisture depletion pattern", International Conference"Water, Environment, Energy and Society" (WEES-2009), New Delhi, 12-16 January 2009, 1725-1731.
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82. Thakur A.K., Ojha C.S.P., Ray C. and Grischek T. "Evaluation of Water Quality at Two River Bank Filtration Sites in India : A Case Study" ASCE IIT Chennai Conference,2010, Page -10,CD-ROM Publication
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87. CSP Ojha, K.M. Singh and K. Prasad. Velocity Distribution In Open Channels: Strategies for Parameter Estimation, 40th Conference on Fluid Mechanics and Fluid Power, NIT Hamirpur, Dec 2013
88. Satyanarain, CSP Ojha, S.K. Mishra and U.C. Chaube. "Industrial Waste Water Treatment using Macrophytes", IIT Delhi, Indo German Workshop, Water & waste water Management, Jan 2014
89. Adeloye, A.J., Holman, I., Ojha, C.S.P. and Hariprasad, K.S. (2013). Mitigating climate change impacts on Indian agriculture through improved irrigation water management (MICCI). RCUK India's 5th Anniversary Research and Innovation week, New Delhi, 11-15 Nov 2013.
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92. Kaushika, G.S., Hariprasad, K.S., Ojha, C.S.P. and Hatiye, S.D. (2014). A physically based model for crop yield estimation. HYDRO International conference 2014.
93. Anoop Kumar Shukla, C. S. P. Ojha and R. D. Garg. (2014). Trends and Variability Assessment of Rainfall and Temperature in Upper Ganga River Basin, Uttarakhand, India. In Proceedings of the XXXIV Indian National Cartographic Association (INCA) International Congress, Cartography-Exploring New Dimensions held on December 16-18, 2014, at Hyderabad, India,
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95. A. K. Shukla, R. D. Garg, C.S. P. Ojha (2015). Comparative Study of TRMM Satellite Estimated Rainfall Datawith Rain Gauge Data Over Himalayan River Basin of India. HYDRO-2015, International Conference on Hydraulics, Water Resources and River Engineering. IIT Roorkee
96. Chetan Sharma, H. Arora, C. S. P. Ojha (2015). Assessment of the Effect of Climate Change on Historical and Future Rainfall in Uttarakhand. HYDRO-2015, International Conference on Hydraulics, Water Resources and River Engineering. IIT Roorkee
97. Hatiye Samuel D., K. S. H. Prasad, C. S. P. Ojha (2015). Estimation of Deep Percolation Return Flow from Paddy FieldsUsing Hydrus-1D Flux Based Model. HYDRO-2015, International Conference on Hydraulics, Water Resources and River Engineering. IIT Roorkee
98. Hitesh Upreti, C. S. P. Ojha (2015). Determination of Irrigation Efficiency Using Soil Moisture Measurements in Sandy-Loam Soil. HYDRO-2015, International Conference on Hydraulics, Water Resources and River Engineering. IIT Roorkee
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100. Kapil Rohilla, K. S. H. Prasad, C. S. P. Ojha (2015) Experimental Study of Sediment Transport in Irrigated Channel Considering the Effect of Infiltration on Degradation. HYDRO-2015, International Conference on Hydraulics, Water Resources and River Engineering. IIT Roorkee
101. U. P. Gupta, C. S. P. Ojha, Nayan Sharma (2015). Submerged Vanes as Sediment Management Device in Hydro Schemes. HYDRO-2015, International Conference on Hydraulics, Water Resources and River Engineering. IIT Roorkee
102. Satya Narain, C. S. P. Ojha, S. K. Mishra (2015). Pollutants Removal Kinetic by Some Aquatic Macrophytes. HYDRO-2015, International Conference on Hydraulics, Water Resources and River Engineering. IIT Roorkee
103. Himanshu Arora, Chetan Sharma, C. S. P. Ojha, Deepak Kashyap, Jyoti Chaubey, Mahak Neema (2015). Spatio-Temporal Trend Analysis of Hydro-Meteorological Variables over Ganga Basin: A Comparison between CMIP3 and CMIP5 Data. HYDRO-2015, International Conference on Hydraulics, Water Resources and River Engineering. IIT Roorkee
104. Deepak Swami, P. K. Sharma, C. S. P. Ojha (2015). Comparative Studies of MPNE Using Different Scale Dependent Dispersivity for Reactive Solute Transport through Heterogeneous Porous Medium. HYDRO-2015, International Conference on Hydraulics, Water Resources and River Engineering. IIT Roorkee
105. Anoop Kumar Shukla, C. S. P. Ojha and R. D. Garg. (2015). Estimation of rainfall variability from TRMM Satellite data over upper Ganga river basin, Uttarakhand, India. In Proceedings of the 9 Uttarakhand State Science and Technology Congress 2014-15, Uttarakhand State Council for Science and Technology (UCOST) held on February 26-28, 2015, at Dehradun, India, pp. 250.

106. Pathak, S., Ojha, C. S. P., and Garg, R. D. (2017). An Approach to Identify Stormwater Harvesting Hotspots for Dehradun, Uttarakhand. RTCWRE-17 Holy Mary Institute of technology and science, Hyderabad, India, 10-11 August 2017.
107. Anoop Kumar Shukla, C S P Ojha, R D Garg, Shray Pathak, Satyavati Shukla and Deen Dayal (2018). Groundwater Appraisal of Dehradun City, Uttarakhand, India using Remote Sensing and Geographical Information System Technology. STIWM 2018, Roorkee, India, Feb 16-19, 2018
108. Pal L., Ojha C.S.P. and Gupta R. (2018). "Application of discrete wavelet transform to analyse trends in precipitation over Uttarakhand state, India". 12th Uttarakhand State Science and Technology Congress (USSTC), Dehradun.

RESEARCH PROJECTS

As PI:

1. AICTE sponsored Young Teachers Career Award Project on "Neuro-computing for certain processes of environmental and water resources engineering" from June 1997-May 2000. [Project budget: Three years' salary + Rs. 2 lakhs]
2. EU sponsored project on EU-India River Bank Filtration Network (project no. ASIE/2004/095-733 costing 620 K Euro), Indian Project Coordinator and Principal investigator at IIT Roorkee, Jan 2005 - Dec. 2006.
3. Hydrological Investigations of Lake Pichhola, Udaipur (Rajasthan) for its rejuvenation, Research project sponsored by Ministry of Water Resources, India, April 2006-March 2008 (Investigators: C.S.P.Ojha and S. Khobragadhe), Project budget Rs. 10.79 lakhs.
4. DST-BMBF project on Clogging of River beds and wells at bank filtration sites in Uttranchal, (Project amount: Euro 25,000); Status: Principal Indian Investigator with Dr. Thomas Grischek as Principal German Investigator (April 2006-March 2008).
5. McGill India Strategic Research Initiative Award project on Conserving and protecting India's Water Resources [Investigators: C. Madramootoo, McGill University, Canada and C.S.P.Ojha, K.S.Hari Prasad and G.L.Asawa, IIT Roorkee, India], March 2007-March 2008 (project amount: 75,000 Canadian Dollar)
6. NWRA, USA project on Performance of River Bank Filtration under Extreme Climatic conditions, (Project amount 50,000 US Dollar), Status: Co-investigator with Dr. C. Ray of University of Hawaii, USA (May 2006 -April 2009).
7. NERC (U.K.)-MOES (India) project on Hydro-meteorological feedbacks and changes in water storage and fluxes in Northern India (a project in collaboration with Imperial College, London, Univ. of Reading, U.K., IISc Bangalore, IIT Kanpur and IIT Roorkee), Total project outlay: About 6 lakhs Sterlings (U.K.) and 1.29 Crore Indian Rupees (India) IITR budget, Status: Principal Investigator at IIT Roorkee (Nov 2011-July 2016).
8. NERC (U.K.)-MOES (India) project on Mitigating climate change impacts on Indian Agriculture through improved irrigation water management (a project in collaboration with Univ. of Heriot-Watt, Edinburgh, Scotland, Crainfield University, U.K., IIT Roorkee, NIT Kurukshetra and NIT Hamirpur), Total project outlay: About 5.5 lakhs Sterlings (U.K.) and 1.2 Crore Indian Rupees (India) IITR budget, Status: Principal Indian Investigator (Nov. 2011-July 2016).
9. Newton-Bhabha Research Project Award by NERC (U.K.)-MOES (India) project on Sustaining Himalayan Water Resources in a Changing Climate (SusHi-Wat) (a project in collaboration with University of Heriot-Watt, Edinburgh, Scotland; Crainfield University, British Antarctic Survey (all UK), IIT Roorkee, NIT Hamirpur, IISc Bangalore and NIH Roorkee), Total project outlay: About 10 lakhs Sterlings (U.K.) and 1.41 Crore Indian Rupees (India), Status: Principal Indian Investigator, Jan 2017-Jan 2020.
10. THDC India Ltd. project award on research proposal titled "Modelling Micro- plastic movement through soil matrix: A step towards plastic waste management", Total Project outlay 25.85 Lakhs, April 2024 – April 2026 (Status– PI).

11. THDC India Ltd. project award on research proposal titled "Development of Innovative Sewage treatment technology with minimum energy requirement", Total Project outlay 29.42 Lakhs, April 2024 – April 2026 (Status– PI).
12. THDC India Ltd. project award on research proposal titled "Innovative approach towards enhancements of bio-hydrogen & Bi-methanation in two- stage Anaerobic co-digestion of Municipal Solid Waste (MSW) and Sewage Sludge by hydro-thermal pre-treatment", Total Project outlay 27.48 Lakhs,April 2024 – April 2026 (Status – PI).

As Co-PI:

1. Optimum Design of Class-I Sedimentation Tank, research project sponsored by Central Water Commission through Indian National Committee on Hydraulics (INCH) from Aug. 1997-March 2001. (Investigators: P.K.Swamee and C.S.P.Ojha), Project budget: 1.5 lakhs
2. U.S.Army Corps project on Mathematical modeling of piping phenomenon in Levees, April-July 2000, Civil and Environmental Engineering, Louisiana State University, USA [invited as a resource person for project no. DACW39-99-C-0028]
3. Alexandar von Humboldt Foundation project on Modeling of slow sand filters from Germany and India, Dec. 2001-July 2002, Water Technology Centre, Karlsruhe, Germany. [Research project budget: Approx. 25000 Euro]
4. BMBF (German Ministry for Education and Research), Export Oriented Research and Development for the sector of water supply and treatment, BMBF, Germany, Project no. 02 WT 0280, Water Technology Centre, Karlsruhe, 2002-2005, participation as a resource person and team member).
5. Perspective of Rainwater harvesting in drought prone region of Madhya Pradesh, Research project sponsored by Ministry of Human Resources Development, Govt. of India, (Investigators:. D. Khare and C.S.P.Ojha), July 2002-Sept. 2006, (project budget:Rs. 10 lakhs)
6. Hydrocoop, Paris, France sponsored research project on Piano Key weirs, (Investigators: Nayan Sharma and C.S.P.Ojha), May 2003-June 2006. IIT Roorkee (project amount- USD 15000)
7. EU-Asia Link sponsored project on Curriculum Development in Geo-Environmental Engineering (project at AIT, Bangkok), participation as a resource person and team member from Aug. 2004-Nov. 2004
8. EU-Asia Link sponsored project on Municipal Solid waste Management in South and South East Asian nations (project. at Khulna Institute of Science and Technology, Bangladesh (participation as a resource person and team member from Aug. 2004-Nov. 2004).
9. Flow and Solute Transport in Unsaturated Soils, Research project sponsored by Ministry of Water Resources, Govt. of India, April 2005-March 2007.(Investigators: K.S.Hari Prasad and C.S.P.Ojha), project budget: Rs. 10 lakhs
10. Ministry of Water Resources, India sponsored research project on Experimental studies on Labrynth Spillways, (Investigators: Nayan Sharma and C.S.P.Ojha), Dec. 2006- Nov. 2009 (project amount : Rs. 16.30 lakhs Indian Rupees)
11. EU project on Coordinated Asia European long term Observing system of Qinghai–Tibet Plateau hydro meteorological processes and the Asian monsoon systEm with Ground satellite Image data and numerical Simulations, (CEOP-AEGIS) PI: Dr. Mossimmo, Delft Institute of Technology, Netherland, Status: team member, 2008-2012.
12. DST Project on Experimentation evaluation and numerical modeling for flow and solute transport through soil column and two dimensional fracture porous formations (project

amount 18.24 lakhs) Co-Investigator with Dr. P.K.Sharma and Dr. D.Kashyap, IIT Roorkee Aug.2009-2013

13. DST Collaborative Proposal with Scientists and Technologists of Indian Origin (DST CP-STIO programme) Modelling moisture uptake by plants and irrigation scheduling, 10.02 lakhs, Investigators: Prof. Govind Raju, Purdue University, USA, Dr. K.S.Hari Prasad and Dr. C.S.P.Ojha, IIT Roorkee, April 2009-March 2012.
14. Ministry of Environment and Forest, New Delhi project on Ganga Basin Water Resources Management, total project outlay 16 Crore, given to consortium of IITs in India, participation as a team member from IIT Roorkee and responsible for hydrologic modeling for river Ganges stretch including Uttrakhand and a part of U.P. state.
15. DST sponsored project on Simulating Virus Transport through Unsaturated medium, (Status: Co-Investigator), 37 lakhs, Nov 2011-Nov. 2014
16. BRICS project award by DST on Research and development of algorithms and software for the processing, storage and visualization of laser scanning and photography data including urban flooding (Co-PI, Indian Institute of Technology Roorkee and China Project Coordinators Professor Lei Zhang, East China Normal University, and Russian PI: Professor Vladimir Badenko Peter, the Great St. Petersburg Polytechnic University); Indian project budget 40 lakhs, Oct 2017- Oct.2020.
17. DST-UKIERI project award by DST on Research Proposal Titled "In-situ bioremediation of non-aqueous phase liquids (NAPLs) pollution within the Baddi-Barotiwala Nalagarh (BBN) Industrial Area in Himachal Pradesh, India", Project partners: Loughborough University, U.K. and IIT Roorkee, December 2018-November 2020 (status: Co-PI).
18. MHRD-SPARK project award on research proposal titled "Mitigation of dam induced flood disaster due to hydrological extremes", Project partners, University of Heriot-Watt,U.K., University of Calgary, Canada, ,IIT Roorkee and Amrita University, July 2019-June 2021, Indian project budget, 44.37 lakhs (status-Co-PI).
19. SERB, India project award on research proposal titled "Fate and Transport of emerging contaminants from NCR surface waters into the subsurface field laboratory and modelling studies", Total Project outlay 36.84 Lakhs, Jan 2024 –Jan 2026 (Status – Co-PI).

Non-sponsored International Research Projects:

1. **Team member in BMBF sponsored International Project no 02W280 at TZW Karlshruhe, Project details with team members [https://docplayer.org/7440096-Exportorientierte-f-e-auf-dem-gebiet-der-wasserver-und-entsorgung-teil-i-trinkwasser-band-2-leitfaden-institut-fuer-wasserforschung-gmbh-dortmund.html], 2002-2005], project sponsored to TZW, Karlshruhe (PI:Prof. W.Kuehn)**
2. **Worked as a team member in 2001 in US Army Corps of Engineers sponsored project** [Contract No. DACW39-99-C-0028 from the Corps of Engineers to Louisiana State University], Investigators: Prof. V.P.Singh, and Prof. D.D.Adrian, Department of Civil and Environmental Engineering, Louisiana State University,USA
3. **Worked as Expert in EU-Asia Link project sponsored to Khulna Institute of Science and Technology, Bangladesh in 2004-05 during stay as Visiting Professor at AIT Bangkok [AIT Collaborator: Prof. U. Glawe]**
4. **Worked as Expert in EU-Asia Link Project** sponsored to AIT Bangkok (PI: Prof. Glawe), Curriculum Development in Geo-Environmental Engineering in 2004-05 during stay as **Visiting Professor at AIT Bangkok [PI:Prof. U.Glawe]**
5. **Worked as an Expert in EU project on Coordinated Asia European long term Observing system of Qinghai-Tibet Plateau hydrometeorological processes and the Asia monsoon system with Ground satellite Image data and numerical simulations, 2009-2014 (Indian**

PI: Dr. Ramakar Jha, NIH Roorkee)

6. **Worked as an Advisor to UKIERI project at IIT Mumbai on Water Security Assessment of Indian Rivers Originating from Himalaya, 2018-2021, (Indian PI: Dr. Raaj Ramasankaran, Civil, IIT Mumbai)**

CONSULTANCY PROJECTS

As PI:

1. NTPC, New Delhi consultancy project on Measurement of discharge consumption at NTPC Thermal Power Plant, Badarpur (project amount: 7.15 lakhs, Investigators: C.S.P.Ojha and K.S.H.Prasad), May 2007-Dec. 2007
2. Alaknanda Hydropower Company limited, Secunderabad Consultancy project on Infiltration Gallery Design for Srinagar Hydro-Electric Project, (project amount: 5.00 lakhs, Investigators: C.S.P.Ojha and K.S.H.Prasad, July 2008-July 2010)
3. Reliance India Limited project on Mathematical Modelling of infiltration gallery, Rs. 5 lakhs, Aug 2010-Oct. 2011,(C.S.P.Ojha and K.S.H.Prasad).
4. Reliance India Limited project on Physical Modelling of infiltration gallery, Rs. 7.5 lakhs, Aug 2010-Oct. 2011, (C.S.P.Ojha and K.S.H.Prasad).
5. Jyoti Build Tech (P) Ltd. project on Vetting of Hydraulic & Structural Design & Drawings for Ranney Well No. 1 Bakhtawarpur (Mehandipur) Village, Murthal Block at Sonipat (Haryana). (project amount: 2.8 lakhs), Status: Principal Investigator, May 2014- July 2014.
6. Jyoti Build Tech (P) Ltd. project on Vetting of Hydraulic & Structural Design & Drawings for Ranney Well No. 2 Bakhtawarpur (Mehandipur) Village, Murthal Block at Sonipat (Haryana). (project amount: 2.8 lakhs), Status: Principal Investigator, May 2014- July 2014.
7. Jyoti Build Tech (P) Ltd. project on Vetting of Hydraulic & Structural Design & Drawings for Ranney Well No. 3 Bakhtawarpur (Mehandipur) Village, Murthal Block at Sonipat (Haryana). (project amount: 2.8 lakhs), Status: Principal Investigator, May 2014- July 2014.
8. SSG Infratech Pvt. Ltd. project on Vetting of Hydraulic & Structural Design & Drawings for Ranney Well No. 4 Jagdishpur Village, Rai Block at Sonipat (Haryana). (project amount: 2.8 lakhs), Status: Principal Investigator, July 2014- Sept 2014.
9. Site Visit for Harvel Ghati Drinking Water Pumping Scheme, sponsored by Vibhor Vaibhar Infra Pvt. Ltd., Rishikesh (2014-15) (project amount: 0.30 lakhs), Status: Principal Investigator
10. Site Visit to Rosa Power Plant Infiltration Gallery, sponsored by Reliance Energy Ltd., NOIDA (2014-15) (project amount: 0.60 lakhs), Status: Principal Investigator
11. Physical Model Study of a Bridge on River Ganga, sponsored by AFCONS Infrastructure Ltd., Kannauj, Uttar Pradesh (2014-15) (project amount: 33.70 lakhs), Status: Principal Investigator
12. SSG Infratech Pvt. Ltd. project on Vetting of Hydraulic & Structural Design & Drawings for Ranney Well No. 5 Manoli Village, Rai Block at Sonipat (Haryana). (project amount: 2.8 lakhs), Status: Principal Investigator, Feb 2015- April 2014.
13. National Highway Authority of India project on Physical Model Study for a bridge on River Yamuna near Ghaziabad (project amount: 34.5 lakhs), Status: Principal Investigator, July 2016- Jan 2017.
14. National Highway Authority of India project on Numerical Model Study for a bridge on River Yamuna near Ghaziabad (project amount: 23 lakhs), Status: Principal Investigator, Jan 2016- April 2017.
15. National Highway Authority of India project on Physical Model Study for a bridge extension on River Yamuna near Ghaziabad (project amount: 11.5 lakhs), Status: Principal Investigator, Oct 2016- March 2017.
16. Physical Model Study and Design of Guide for a Bridge on River Yamuna on NH-24 with Revised Span Arrabgngement, Aligarh sponsored by National Highway Authority of India,

Ghaziabad 2016-17 (project amount: 11.50 lakhs), (C.S.P.Ojha, status: Principal investigator).

17. M/S Sriram Pistons & Rings Ltd, Meerut Road, Ghaziabad, sponsored project on Source Identification and Groundwater Flow direct determination in and around Lohianagar, Ghaziabad, Mar 2017- Oct 2017. (project amount: 11.38 lakhs), (C.S.P.Ojha, status: Principal investigator).
18. Vetting of the design and drawing of proposed ghats and bank protection on banks of Narmada River funded by Indira Sagar Project (Canals), M. P., October 2018 – March 2019. (project amount: 47.2 lakhs), (C.S.P. Ojha, status: Principal Investigator).
19. Scour Hazard and Scour Protection for Transmission line tower foundation in Kosi and near Kosi river bank funded by STERLITE, Sept 2020-Nov 2020. (project amount: 15 lakhs), (Investigators: CSPOjha, K.S.H.Prasad and V. Gupta)
20. Physical Model Study of a bridge on river Saryu on Gorakhpur Link Expressway, sponsored by UP Expressways Industrial Development Authority, Lucknow, Aug. 2020- March 2021, project amount :35.40 lakhs, (Principal Investigator)
21. Review of design of the work for remodeling Sahu Minor with underground pipeline RD 0 to 19175 Tail, sponsored by Irrigation and Water Resources Department, Haryana, April 2021-June 2021. (project amount 5.90 lakhs), (PI)
22. Site Visit Kathgodam and Haldwani to Examine Damaged Railway Infrastructure, sponsored by Dept. of Railways North Eastern Railway Haldwani, Nov. 2021-Mar 2022, (project amount 3 lakhs), (PI)
23. Study on River Protection Work at Kathgodam, sponsored by Sr. Divisional Engineer Indian Northern Railway, Izzat Nagar, Mar. 2022-Dec 2022, (project amount 30 lakhs), (PI)
24. Physical Model Study for Proposed Alignment of New Rail Cum Road Bridge onRiver Ganga Between Varanasi-Deen Dayal Railway Stations., sponsored by Northern Railway, Lucknow., Sep. 2022-Mar. 2023, (project amount 25 lakhs), (PI)
25. River Protection Works for Prevention of Breaches and Slope Erosion of Railway Embankment, sponsored by Sr. Divisional Engineer(I) North Eastern Railway LUCKNOW., Dec. 2022-Mar. 2023, (project amount 3 lakhs), (PI)
26. Vetting of Bridge Near Mathura for NHAI, sponsored by PNC Infrastructure Ltd. Agra., Dec. 2022-Mar. 2023, (project amount 5 lakhs), (PI)
27. Technical Advice on Koteshwar - Jhandidar Pumping, sponsored by Executive Engineering Uttarakhnad Jal Sansthan, Devprayag., Jan. 2023-Feb. 2023, (project amount 2 lakhs), (PI)
28. Site Visit to Dhani Khari Dam., sponsored by Executive Engineer, Public Health Engg. Dept. APWD Port Bihar., Apr. 2023- May. 2024, (project amount 4 lakhs), (PI)
29. Vetting of Drain Design & Drawings at Maryada Purushotham Shri Ram International Airport., sponsored by Executive Engineer, Irrigation Division Ayodhya., Apr. 2023- Aug. 2024, (project amount 5 lakhs), (PI)
30. Physical Model Study of a Bridge on Review Beas Near Kapurthala., sponsored by MKC Infrastructures, Gurudaspur, Punjab., Sep. 2023- Dec. 2023, (project amount 35 lakhs), (PI)
31. Site Visit on Flood Protection and Slope Stabilization Around Garjiya Devi Temple., sponsored by Executive Engineer Irrigation Dvn Ramnagar., Nov. 2023- Dec. 2023, (project amount 1 lakhs), (PI)
32. Design of Protection Works at Eroded Bank at Railway Lines Haldwani Station., sponsored by Northern Railway, Izzat Nagar., Dec. 2023- Jul. 2024, (project amount 40 lakhs), (PI)
33. Model Study for Important Bridge and its River Training Work Over River Ghagra at Dohright, Dist: Mau(UP)., sponsored by Northern Eastern Railway, Gorakhpur(UP), Jan. 2024- May. 2024, (project amount 36 lakhs), (PI)
34. Model study for construction of a new railway bridge and its river training works over Rohni river in Maharajganj Dist. For Anandnagar- Maharajganj-Ghughli New Railway line project, sponsored by North Eastern Railway, Gorakhpur (UP) May 2024 – Dec 2024 (project amount 36 lakhs), (PI)
35. Physical Model Study for Bridge No-391 on River Ghagara between Chawkwat-Ghagaraghat

station for River Training Works, sponsored by North Eastern Railway, Gorakhpur (UP) Sept 2024 – Jun 2025 (project amount 36 lakhs), (PI)

36. Construction of 6 Nos. New RCC Box Culven of Span (1x1.20 m) between Vlk PLK on (MG) Section and River Protect Ion Works for Protection of Breaches and Slopes Erosion of Railway Embankment in Mailani- Nanpura, sponsored by North Eastern Railway, Lucknow Sept 2024 – Jun 2025 (project amount 60 lakhs), (PI)

As Co-PI:

1. Design of Lift Irrigation Scheme, 1988, sponsored by Voltas Ltd., Lucknow, U.P., (Investigators: M.K.Mittal and C.S.P.Ojha), consultancy amount Rs. 0.25 lakhs, Hydraulic Engineering Report no. HYD8901
2. Design of Water Supply Scheme, 1989-90, sponsored by BHEL, Haridwar, U.P., (G.C.Nayak, P.K.Swamee, R.Bhargava and C.S.P.Ojha), consultancy amount: Rs. 5 lakhs
3. Ministry of Environment and Forest, Government of India sponsored project on Design of Sewerage systems of 18 districts of U.P., M.P., and Haryana states, 1993-1994 [consultancy amount: Rs. 5.5 lakhs]
4. Design of Four Mini-Hydroelectric Projects in Arunachal Pradesh, 1993-94, consultancy project sponsored by Arunachal Pradesh Power Development Corporation, consultancy amount: approx. 8 lakhs, Report No. HYD/9401
5. Thermal Stratification and Water Quality Modelling of Jamrani Reservoir, (1994), sponsored by U.P.Irrigation Department (Investigators: P.K. Pandey, M.K. Mittal, C.S.P. Ojha, A. Gairola), consultancy amount: Rs. 5.5 lakhs, Report No. HYD/9409
6. Surge Analysis of Larji Hydro-Electric Project, Himachal Pradesh Irrigation Department, 1999, consultancy amount: Rs. 5.0 lakhs
7. Ministry of Environment and Forest, Government of India sponsored project on Modelling of DAL and NAGIN LAKE, Kashmir, 1999-2000 [consultancy budget: Rs. 150 lakhs with share as 5%]
8. Model Studies on Dynamic Pressure Fluctuations on the Side wall/ Divide wall of the stilling basin of the Shahpurkandi Project, Punjab Irrigation Department, Aug. 2002, consultancy amount: Rs. 8 lakhs.
9. Planning and Design of Rainwater Harvesting System at Chemicals and Fertilizers Limited Kota, 2003-2004, sponsored by CFCL Kota, (Investigators: D.Khare, U.C.Chaube, and C.S.P.Ojha), consultancy amount: Rs. 1.65 lakhs
10. Evaluation of Design of an Infiltration Well in Uttranchal, Sept. 2006, sponsored by Uttranchal Jal Sansthan, Consultancy amount: Rs. 0.50 lakhs
11. Punjab Irrigation Works, Chandigarh, consultancy project on Checking of cross drainage structures at RD 64.108 km of Kandi Canal Stage-II (project amount: 3.65 lakhs, Investigators: G.L.Asawa, N.M.Bhandari, and C.S.P.Ojha), January 2009.
12. NALCO project on Water and Waste Water Audit at smelter plant of NALCO Township, Orissa, (project amount 90 lakhs), Co-investigator with Dr. U.C.Chaube, and S.K.Mishra, IIT Roorkee, May 2010-Dec. 2011.
13. NAFRA Hydro Electric Project on Hydraulic Model Studies of Spillway and water Intake of NAFRA H.E. Project, West Kameng, Arunachal Pradesh, Rs. 20 lakhs, Aug. 2010-May 2011 (Co-investigator with Dr. Z.Ahmad).
14. NAFRA Hydro Electric Project on Hydraulic Model Studies for Desilting Chamber of NAFRA H.E. Project, West Kameng, Arunachal Pradesh, Rs. 36 lakhs, Aug. 2010-Aug. 2011 (Co-investigator with Dr. Z.Ahmad).
15. Ministry of Water Resources (India) sponsored project on Evaluation of 11th 5 year plan for Central water Commission, New Delhi (Status - Coinvestigator), 20 Lakhs, (June 2013-

May 2016)

16. Ministry of Water Resources (India) sponsored project on Evaluation of 11th 5 year plan for National Institute of Hydrology and its regional centres in India, (Status - Coinvestigator) 34 Lakhs, (June 2013-May 2016)
17. Ministry of Transport (India) sponsored project on Physical modelling of a bridge site at Kosi river in Bihar, (Status – Co-investigator), 38 Lakhs, (June 2013-April2014)
18. PNC Infratech, Agra sponsored project on Physical model studies for detailed Hydraulic Investigations for a bridge across river Yamuna near Agra, 25 lakhs, (2015), Status: Co-Investigator
19. Afcons Infrastructure Ltd, Kannauj sponsored project on Physical model studies for detailed Hydraulic investigations for a bridge across river Ganga near Kannauj, 34.5 Lakhs, (2015), Status: Co- Investigator
20. UP Public Works Department sponsored project on Physical model studies for detailed Hydraulic investigations for a bridge across river Ganga near Kasganj, UP, 34.5 Lakhs, (2016), Status: Co- Investigator
21. Afcons Infrastructure Ltd, Kannauj sponsored project on Developing methodology for rainwater harvesting bore wells, Feb 2017- July 2017. (project amount: 5 lakhs), (C.S.P.Ojha, status: Co-Investigator).
22. IIM Kashipur, project on Methodology for lowering water table at IIM Kashipur, April 2017- Nov 2017. (project amount: 4 lakhs), (C.S.P.Ojha, status: Co- investigator).
23. National Highway Authority of India project on Monitoring, Supervision and Review of development of six lane of NH-24 from Nizamuddin to Delhi, May 17-Dec 19. (project amount: 75 lakhs), (C.S.P.Ojha, status: Co- investigator).
24. Hydrological and Hydraulic Study of a bridge on river Yamuna by S.P. Singla Construction Pvt. Ltd., August 2018 – December 2018. (project amount: 11.80 lakhs), (C.S.P.Ojha, status: Co- Principal Investigator).
25. Physical Model study for two 4 lane bridge on river Hindon. April 2018- October 2018 (project amount: 25 lakhs), (C.S.P.Ojha, status: Co- Principal Investigator).
26. Hydraulic modelling design of river Rispana by WAPCOS LTD., Gurgaon, Haryana, March 2018 – July 2018. (project amount: 5 lakhs), (C.S.P. Ojha, status: Co- Principal Investigator).
27. Public Works Department, Uttarkashi sponsored project on Evaluation of pumping scheme during foundation work of Kailash gate bridge, Rishikesh, April 2018 – August 2018. (project amount: 2 lakhs), (C.S.P. Ojha, status: Co- Principal Investigator).
28. Hydrological studies and design of guide bunds on river Koshi, Nagina sponsored by PNC Infratech, New Delhi, July 2018 - December 2018. (project amount: 4.2 lakhs), (C.S.P. Ojha, status: Co- Principal Investigator).
29. Fixing waterways of a bridge on river Yamuna by PNC Infratech, New Delhi, October 2018– December 2018. (project amount: 4.2 lakhs), (C.S.P. Ojha, status: Co- Principal Investigator).
30. Hydrological report on river Bindal funded by WAPCOS LTD. Haryana, October 2018 – January 2019. (project amount: 4 lakhs), (C.S.P. Ojha, status: Co- Principal Investigator).
31. U.P. Irrigation Department, Rampur Division, funded project on physical model study of lower Sainjani barrage, Rampur, October 2018 – February 2019. (project amount: 25 lakhs), (C.S.P. Ojha, status: Co- Principal Investigator).
32. Expert opinion on prefeasibility report for rejuvenation of Bhadkal lake project sponsored by Faridabad Smart city LTD., Faridabad. (project amount: 10 lakhs), (C.S.P. Ojha, status: Co- Principal Investigator).

33. Model study of a dam river Orr near Shivpuri, Madhya Pradesh funded by Sarthi Construction LTD., Gwalior, November 2018 – June 2018. (project amount: 8 lakhs), (C.S.P. Ojha, status: Co- Principal Investigator).

34. Design of protection works for Balawali rail Bridge across river Ganga in Uttrakhand, Indian Railways, project amount 8 lakhs, Aug. 2019-March 2021, project amount 8 lakhs, (Co-investigator)

35. Physical Model Study for a Rubber Dam on river Yamuna near Taj Mahal by Taj Barrage Construction Division, Govt. of UP, Agra, project amount, 25 lakhs, (status: Co-investigator), Nov.2019-Nov. 2020.

36. Physical Model Study of a bridge on river Saryu near Ayodhya, U.P. Irrigation, project amount Rs. 25 lakhs, (status: Co-investigator), Dec. 2019-Dec 2020

37. Vetting and Review of Mathematical Modelling of Mechi River Bridge funded by DRAIPL, March 2020-May 2020. (project amount: 5.31 lakhs), (C.S.P.Ojha, Status: Co-PI)

38. Review of design of the work for remodeling Gorakhpur Distributary with underground pipeline RD 0 to 43250 Tail, sponsored by Irrigation and Water Resources Department, Haryana, Oct 2020-Dec 2020. (project amount 5.90 lakhs), (Investigators: CSPOjha, K.S.H.Prasad, and K.K.Singh)

39. Scour around bridge piers in gravel bed streams, sponsored by Border Road Organisation, Oct. 2020-March 2022, (project amount 60 lakhs), (Co-PI)

40. Widening and fortification of NH74 in Haridwar-Nagina section, sponsored by M/S Pawan Kumar H. No. 37, Haridwar, May. 2021-Dec 2021, (project amount 10 lakhs), (Co-PI)

41. Vetting of Ranipur Harvesting Pit General Alignment Drawing, sponsored by Tata Projects Ltd, Dravyavati River Project Jaipur, Oct. 2021-Dec. 2021, (project amount 2 lakhs), (Co-PI)

42. Site Visit to a Lake at Sector 42, Chandigarh, sponsored by Construction and Planning Division, Chandigarh UT, Oct. 2021-Oct 2022, (project amount 2 lakhs), (Co-PI)

43. Design of River Trainings Work for a Bridge on River Ganga Near Aligarh, sponsored by Works Department, Aligarh, UP, Oct. 2021-Mar 2022, (project amount 2 lakhs), (Co-PI)

44. Physical Model Study Malaviya Bridge on River Ganga Varanasi, sponsored by Northern Railway, Jan. 2022-Dec 2022, (project amount 30 lakhs), (Co-PI)

45. Design of Protection Works for Railway No. 213 Near Dehradun, sponsored by Northern Railway, Moradabad, Jun. 2022-Dec 2022, (project amount 6 lakhs), (Co-PI)

46. Design of Protection Walls for Highway Bridge No. 1252 and 1259 at Raisi, sponsored by Northern Railway, Moradabad, Jun. 2022-Dec 2022, (project amount 8 lakhs), (Co-PI)

47. Site Visit Faridkot Military Station to Study Drainage Probled, sponsored by Military Engineering Services, Faridkot Milition, Jun. 2022-Sep. 2022, (project amount 2.5 lakhs), (Co-PI)

48. Physical Metal Study for a Proposed Bridge on River Ganga Between Meerut and Hapur., sponsored by Larsen & Tunbro Sunam Road Andhen Mubai, Aug. 2022-Mar. 2023, (project amount 30 lakhs), (Co-PI)

49. Physical Model Study for an Existing and Proposed Bridge on River Chakki, sponsored by Pathankot Mandi Highway Private Limited, Nov. 2022-Mar. 2023, (project amount 30 lakhs), (Co-PI)

50. Site Visit for the Protection of Soil Erosion Occuring During Heavy Rainfall at 400 k V Substation Srinagar., sponsored by Power Transmission Corporation of Uttarakhand Limited, Vidyut Bhawan, 248001., Nov. 2022-Mar. 2023, (project amount 2 lakhs), (Co-PI)

51. Characterization of Sediments of Baspa River., sponsored by JSW Hydro Energy Limited,

Kinnaur, H.P. 172104., Jan. 2023- Jun. 2023, (project amount 2 lakhs), (Co-PI)

52. Vetting of Pipe Network Design of Sarkula Medium Irrigation Project., sponsored by Rajkamal Builder Private Limited, Indore., H.P. 172104., Feb. 2023- Jul. 2023, (project amount 5 lakhs), (Co-PI)

53. Protection Works for Right Guide Bund of a Road Bridge Across River Ganga Near Shankara - Mittanpur Uttar Pradesh., sponsored by Public Works Department, Provincial Division, Aligarh., Feb. 2023- Jul. 2023, (project amount 2 lakhs), (Co-PI)

54. Physical Model Study for a Proposed Bridge on River Yamuna B/W Palwal and Malav., sponsored by U.P. State Bridge Corp. Ltd. Aligarh., Feb. 2023- Jun. 2023, (project amount 25 lakhs), (Co-PI)

55. Physical Model Study Bhimgoda Barrage, Haridwar Bypass Road (Package-2)., sponsored by N.H.A.I. Vasant Vihar, Dehradun., Feb. 2023- Jul. 2023, (project amount 35 lakhs), (Co-PI)

56. Site Visit to Teesta Hydro-Electric Project Stage-III, Sikkim., sponsored by Shri Satyan Sood; E.D. - Projects and Contracts; M/s Sikkim Urja Ltd., Safdarjung Enclave, Africa Avenue; New Delhi - 110029; Chief Executive Office, Shri Mata. Vaishno Devi Shrine Board, Katra, J&K, 182301. May 2023- May 2024 (project amount 1 lakhs), (Co-PI)

57. Review and Vetting of Hydrological and Hydraulic Study for a Bridge Near Kapurthala., sponsored by S P Singla Construction Private Limited, Panchkula Haryana., Jul. 2023- Dec. 2023, (project amount 5 lakhs), (Co-PI)

58. Physical Model Study for Proposed Vilcranshila Sethu on River Ganga, Near Bhagalpur Bihar., sponsored by S P Singla Construction Private Limited, Panchkula Haryana., Jul. 2023- Dec. 2023, (project amount 25 lakhs), (Co-PI)

59. Vetting of Design of Hydel Power Houses and Boras Barrage, NVDA, Bhopal., sponsored by GPS Nakatua, First Floor, Narsinghpur, M. P., Aug. 2023- Dec. 2023, (project amount 45 lakhs), (Co-PI)

60. Estimation of Discharge of Ranney Well and Water Quality., sponsored by UP Jal Nigam, Construction Division, Agra., Aug. 2023- Dec. 2023, (project amount 4 lakhs), (Co-PI)

61. Review of Hydrological Report at Badakumari Section Under., sponsored by NHAI, Nabarangpur, Odisha., Aug. 2023- Dec. 2023, (project amount 6 lakhs), (Co-PI)

62. Expert Opinion on Issues Related to Maximum Scour Calculation for Proposed Vikramshila Sethu., sponsored by M/s S.P. Singla Construction Pvt. Ltd, Boring Road Patna., Sep. 2023- Dec. 2023, (project amount 5 lakhs), (Co-PI)

63. Hydrological and Hydraulic Assessment for a Bridge on River Ganga Near Sherpur Bihar., sponsored by M/s S.P. Singla Construction Pvt. Ltd, Boring Road Patna., Sep. 2023- Dec. 2023, (project amount 15 lakhs), (Co-PI)

64. Detailed Design of Earth Retaining Structure and Storm Water Drainage System for Protection of Erosion & Ground Subsidence at 400 KV Substation Srinagar., sponsored by Power Transmission Corporation of Uttarakhand Ltd, 248001., Dec. 2023- May. 2024, (project amount 18 lakhs), (Co-PI)

65. Physical Model Study for a Bridge on Kaithi Ghat on River Ghagra., sponsored by Uttar Pradesh Bridge Corporation Ayodhya., Dec. 2023- Jul. 2024, (project amount 25 lakhs), (Co-PI)

66. Site visit for Model Study of Ganga River Bank Protection work for HG Infra., sponsored by HG Infra, Ghatpuri, Badaun, U.P., Feb. 2024- Jul. 2024, (project amount 2.5 lakhs), (Co-PI)

67. Design of Protection and River Training Works for Railway Bridge No. 17 on River Ravi., sponsored by Northern Railway, Ferozpur., Apr. 2024- Dec. 2024, (project amount 29.50 lakhs), (Co-PI)

68. Design of Protection and River Training Works for Railway Bridge No. 172 on River Basantar., sponsored by Northern Railway, Ferozpur., Apr. 2024- Dec. 2024, (project amount 29.50 lakhs), (Co-PI)

69. Consultancy for preventive and curative measures in land slide prone location between Km 28-30 in the Haridwar-Dehradun section under Assistant Divisional Engineer, Northern Railway, Haridwar., sponsored by Divisional Engineer-I, Northern Railway, Moradabad, Apr 2024 – Jan. 2025 (project amount 41.30 lakhs), (Co-PI)

70. Suggestions for stability of pier of steel girder bridge on Kosi River at place Rataura., sponsored by Executive Engineer, Nirman Khand, PWD, Nainital, Apr 2024 – Jan. 2025 (project amount 47.20 lakhs), (Co-PI)

71. Hydraulic studies, flood protection and review of DPR on slope stabilization around Garjiya Devi Temple., sponsored by Irrigation Division Ramnagar, Govt. of Uttarakhand, May 2024 – Dec 2024 (project amount 35.40 lakhs), (Co-PI)

Ph.D. SUPERVISED

1. R.Shrivastava : Design and Operational Aspects of Biofilm Reactors (RBC), (C.S.P.Ojha), 1996
2. Krishna.K.Singh : Flood Estimation in Selected Indian River Basins (D.V.S. Verma and C.S.P.Ojha), 1997
3. P. Nema : Waste Water Renovation Through Soil Aquifer Treatment (A. Kumar, P. Khanna and C.S.P.Ojha), 1998
4. R.P.Singh : Modelling of UASB Reactor, (S. Kumar and C.S.P.Ojha), 1998
5. T. Mansoor : Studies on Skew Weirs and Sluice Gates, (P.K.Swamee, S.K.Pathak and C.S.P.Ojha), 1999
6. Susheel K.Singh : Stream Aquifer Interaction, (P.K.Swamee, G.C.Mishra and C.S.P.Ojha), 1999
7. N.C.Ghosh : Studies on Solute Transport in Rivers (C.S.P.Ojha and G.C. Mishra), 2001
8. R.K. Jha:Stream water quality simulation with GIS and Remote Sensing support. (C.S.P. Ojha and K.K.S. Bhatia), 2001
9. S. Mandal : Some aspects in numerical simulation of wind flow around bluff bodies (C.S.P.Ojha and P. Bhargava), 2001
10. S.Rasool : Study of scour around permeable spurs (N.Sharma and C.S.P.Ojha), 2001
11. M.Abdullah : Experimental Study on Characteristics of Braided Stream (N.Sharma and C.S.P.Ojha), 2001
12. G.Pandey : Optimization of municipal waste water treatment system with UASB process (A.Kumar and C.S.P.Ojha), 2002.
13. S.B.Prasad: Simulation of solute transport in unsteady stream flows (U.C.Chaubey, M.Perumal and C.S.P.Ojha), 2002.
14. U.P.Gupta: Study on performance of submerged vanes with collar (N.Sharma and C.S.P.Ojha), 2003.
15. H.Singh : A study on potential of genetic algorithms in Civil Engineering (C.S.P.Ojha and P. Bhargava), 2003.[A considerable part of thesis dealt with flood routing and water distribution network analysis]
16. A.K.Singh: Stability analysis of levees (C.S.P.Ojha, N.K.Samadhiya and G.C.Mishra), 2004.
17. U.Mishra: Experimental investigations into flow around islands (N.Sharma and C.S.P.Ojha), 2005
18. PradeepK.Bhunya: Statistical approaches for estimation of design flood in ungauged catchments, 2005 (C.S.P.Ojha, S.K.Mishra, and RonyBerndtsson)
19. Ramakant : Modelling of sand filters for rainwater harvesting (D.Khare and C.S.P.Ojha), 2006

20. GopiSiddappa : Seepage and stability analysis of earthen dams (C.S.P.Ojha and K.S.H. Prasad), 2006

21. Vijay K. Dwivedi : Rainfall-Runoff-Sediment yield of Bhopal lake catchment, Madhya Pradesh, India (C.S.P.Ojha, S.K.Mishra, and A.K.Bhar), 2007
22. Vijay S.Dogra : Moisture uptake by plants (K.S.Hari Prasad and C.S.P.Ojha), 2007
23. A.Thakur : Studies on water quality in river bank filtration (C.S.P.Ojha, B.R.Gurjar and T.Grischek), 2007
24. S.K.Gupta: Design and operation of on-farm reservoir (K.K.Singh and C.S.P.Ojha), 2007
25. D.N.Ratha : Analysis and parameter estimation of virus transport through subsurface (K.S.Hari Prasad and C.S.P.Ojha), 2008
26. R.K.Rai : Optimum Design of sewer networks (C.S.P.Ojha and P.K.Swamee) , 2008
27. P.N.Chandramoulli: Estimation of unsaturated soil parameters (K.S.Hari Prasad and C.S.P.Ojha), 2009
28. S.Devatta : Soil moisture uptake by plants under saline irrigation (K.S.Hari Prasad and C.S.P.Ojha), 2009
29. Gopal Das: Flow characteristics of Labrynth weirs (N. Sharma, and C.S.P.Ojha), 2009
30. K.S.Khobragadhe : Hydrological modeling of lake Pichhola for its rejuvenation (C.S.P.Ojha and K.K.S.Bhatia), 2009
31. A.R.Senthil Kumar : Reservoir sedimentation (C.S.P.Ojha , P.K.Swamee and R.D.Singh), 2009
32. M.Parvez : Modelling and erosion control of a Brahmaputra river stretch (N.Sharma, R.P.Singh, C.S.P.Ojha), 2011
33. Manish Kumar Goyal : Study on statistical downscaling for climate projections, (C.S.P.Ojha), 2011
34. Kesheo Prasad: Study on turbulent flow in open channels (C.S.P.Ojha and K.M.Singh), 2011
35. Manoj Kumar : Heat and Mass Transfer Analysis of Evaporation from Water bodies (C.S.P.Ojha and J.S. Saini), 2012
36. R.A.Singh : Flow and pressure characteristics of vertical gates with different lip types (GopalChauhan, C.S.P.Ojha and A.Gairola), 2012
37. Narain S: Municipal Waste Water Treatment using Certain plants (S.K.Mishra, C.S.P.Ojha and U.C.Choubey), 2012.
38. Nitin Joshi: Solute Transport through Porous Media (P.K.Sharma and C.S.P.Ojha), 2012
39. B.B.Chaudhur: Potential of River Bank Filtration in Arsenic Affected Region (C.S.P.Ojha and A.K. Thakur), 2013
40. Deepak Swami: Modelling flow and contaminant transport through a stratified porous medium (P.K.Sharma and C.S.P.Ojha), Mar. 2014
41. A.Hussain: Discharge Characteristics of Side Orifices and Power Intakes (Z.Ahmad and C.S.P.Ojha), July 2014
42. R.P.Singh: Contaminant Transport from Landfills (M.Singh and C.S.P.Ojha), June 2015
43. V. Chandrasekhar: Air Pollution Modeling (B. R. Gurjar and C.S.P.Ojha), March 2016
44. Anoop Kumar Shukla: Precipitation and Water Yield Variability in Upper Ganga Basin Using Geomatics, (R.D.Garg and C.S.P.Ojha), June 2018.
45. Hitesh Upreti: Modelling soil moisture dynamics in cropped area for irrigation scheduling, August 2018
46. Shray Pathak: Multi-Criteria Decision Analysis for Identifying Stormwater Harvesting Sites, (R.D.Garg and C.S.P.Ojha), Dec 2018.
47. Chetan Sharma: Climate Change Detection in Ganga River Basin, March 2019
48. Himanshu Arora: Planning of Groundwater Development in a Basin under Climate Change (D. Kashyap and C.S.P. Ojha), April 2019.
49. Alok Kumar: Analysis of flow around L-Head Groynes, June 2019

50. John Mohd Wani: Inferring Permafrost and its characteristics in the cold-arid Himalaya (C.S.P.Ojha and Rennoj J. Thayyen), Oct 2019

51. Swati Rani: Tertiary Waste Water Treatment through microalgae and separation of its value-added products (Raja Chaudhary and C.S.P.Ojha), March 2020
52. Shikhar Upadhyay: Simulation of Atmospheric Boundary Layer (K.Sarit Das and C.S.P.Ojha), June 2020
53. Anuj Kumar: Wheat Yield Modelling for Pre-Harvest Forecasting, July 2021
54. Pankaj Upreti: Event-based rainfall-runoff modeling using hybrid approaches, July 2021
55. Sonali Swetapadma: Relevant Aspects of Flood Frequency Analysis, March 2022
56. Lalit Pal: Assessing Non-Stationarity in Precipitation and its Impacts, August 2023
57. Neelam Gunjyal: Wastewater Receiving Ponds in Rural India and Their Impact on Antibiotic Resistance and Groundwater Quality (Gargi Singh And C. S. P. Ojha), July, 2023
58. Ebissa Gadissa: Modelling Flow in Prismatic and Non-Prismatic Compound Channels (K. S. Hari Prasad and C. S. P. Ojha), Jan 2024
59. Ali Mohammad Rahmani: Anaerobic Digestion of Agro-waste (A. A. Kazmi and C. S. P. Ojha), June 2024
60. Aschalew Cherie Workneh: Estimation of crop water stress index using machine learning techniques and Irrigation scheduling (K. S. Hari Prasad and C. S. P. Ojha), July, 2024

SUPERVISION OF MASTER'S STUDENTS

1. K.K.Singh: Experimental study of settling basin, July, 1987 (K.G.Ranga Raju and C.S.P.Ojha)
2. R.K.Goyal: S-Curve Synthesis using catchment characteristics, June, 1989 (P.K.Swamee and C.S.P. Ojha)
3. A.Abbas: Flood frequency analysis, Sept., 1989 (P.K. Swamee and C.S.P.Ojha)
4. A.M.Sahu: Aquifer response considering well storage, August, 1990 (C.S.P.Ojha)
5. A.K.Rai: Computer-aided scheduling of irrigation, Dec., 1994 (C.S.P.Ojha)
6. N.Kumar: Determination of free surface in steady state seepage, Jan. 1995 (C.S.P.Ojha)
7. A.Gopeshwar: Thermal stratification in reservoirs, Jan., 1995 (P.K.Pande, C.S.P.Ojha and A.Gairola)
8. V.Kumar: Integrated design of canal and canal fall, Jan., 1995 (P.K.Pande and C.S.P.Ojha)
9. S.Kumar: Analysis of free flow through parallel slot, March, 1995 (P.K.Swamee and C.S.P.Ojha)
10. D.K.Singh: Optimal design of drip irrigation systems, March, 1995 (P.K.Swamee and C.S.P.Ojha)
11. H.K.Singh: Sizing riprap for bed protection below pipe outlets, March, 1995 (C.S.P.Ojha)
12. A.K.Sinha: Simulation of circulation patterns in lakes, March, 1995 (C.S.P.Ojha and A. Gairola)
13. S.Khanduja: Locating hoppers in settling basins, Aug., 1995 (P.K.Swamee and C.S.P.Ojha)
14. N.P.Singh: Online prediction of batch adsorption system, March, 1995 (C.S.P.Ojha)
15. U.C.Sharma: A process control software for anaerobic digestion plant, March, 1995 (C.S.P.Ojha)
16. V.Gopal: Seepage face consideration in dugwell pumping test analysis, March, 1996 (C.S.P.Ojha)
17. A.Srivastava: Transmissivity and storage characteristics of soils, March, 1996 (C.S.P.Ojha

and N.K.Samadhiya)

18. Ashish: Neuro-computing for certain stochastic processes, March, 1996 (C.S.P.Ojha)
19. D. Subbaiah: Flow through side slot, March, 1996 (C.S.P.Ojha)
20. S.K.Singh: Velocity distribution in turbulent boundary layer over smooth surfaces. March, 1996 (S.K.Pathak and C.S.P.Ojha)
21. A.R.Kumar: Flow through large orifice, March, 1996 (P.K.Swamee and C.S.P.Ojha)
22. Rajeev: Riprap scour below pipe outlets, March,1996 (C.S.P.Ojha)
23. K.V.J.Rao: Stochastic optimal conjuctive use planning model, March 1997 (S.K.Pathak and C.S.P.Ojha)
24. V.K.Talwar: Study of scour around spurs at Gumi in the Brahmaputra River, Jan. 1997 (N.Sarma and C.S.P. Ojha)
25. N.V.Kumar: Analysis of water distribution networks , Feb. 1997 (C.S.P.Ojha)
26. N.K.Padhy: Scour below stepped spillways, Feb. 1997 (P.K. Pande, M.K. Mittal, and C.S.P.Ojha)
27. C. Balaji: Flow through lateral orifice, Feb. 1997 (C.S.P.Ojha)
28. D.Pandey: Computer aided design of cross-drainage works, March 1997 (C.S.P.Ojha)
29. S.Kumar: Effect of boundary conditions on numerical simulation of wind flow around buildings, March 1997 (P.Bhargava and C.S.P.Ojha)
30. P. Kumar: Numerical prediction of wind flow patterns over 2-D buildings, March 1997 (C.S.P. Ojha and P. Bhargava)
31. B.Mathur : CAD of Activated Sludge Process System, March 1997 (C.S.P.Ojha)
32. D. Prasad: Evaluation of stochastic models of sediment transport, Dec. 1997 (N. Sharma and C. S. P. Ojha)
33. R.K.Poddar: Modelling of braided stream, Jan. 1998, (C.S.P. Ojha and N. Sharma)
34. J. Singh: Modelling of Flow through unsaturated zone, March 1998, (D. Kashyap and C.S.P. Ojha)
35. M. Kumar: Optimization using genetic algorithms, March 1998 (P.Bhargava and C.S.P.Ojha)
36. V. Singh: Optimum conjunctive use under uncertainty, March, 1998 (S.K. Pathak and C.S.P. Ojha)
37. P.J.P. Singh: Flow characteristics over stepped spillways, March 1998, (P.K.Pande, M.K.Mittal, and C.S.P. Ojha)
38. S.I.J. Basha: Analysis of flow through side sluice gate, March 1998, (C.S.P. Ojha)
39. S. Kumar: Numerical solution of Saint Venant Equation, March 1998 (C.S.P. Ojha and P. Bhargava)
40. K.R. Kant: Alluvial resistance modelling using Artificial Neural Networks, March 1998 (C.S.P. Ojha)
41. S. Alam: Simulation of advance phase for border irrigation using dimensional approach and kinematic wave approximation, Jan., 1999, (N. Sharma and C.S.P.Ojha)
42. S. K. Verma: Mathematical modelling of infiltration characteristics through soil, Jan., 1999, (N. Sharma, and C.S.P. Ojha)
43. J. V. Rao: Finite element analysis of seepage zone in an earth dam on an impervious base, Feb., 1999,(C.S.P.Ojha)
44. P.K. Manadhar: Experimental investigation of submerged vanes as antibank erosion measures, Feb. 1999, (N.Sharma and C.S.P.Ojha)
45. S. Upadhyay: Experimental study of flow resistance in gravel bed streams, March, 1999, (N.Sharma and C.S.P.Ojha)

46. A.M. Aduss: Analysis of water distribution networks, March, 1999, (C.S.P. Ojha)
47. M. Sethi: Effect of blockage ratio on force due to baffle blocks, March, 1999, (C.S.P. Ojha)
48. A.K. Jain: Analysis of flow over rectangular lateral weir, March, 1999, (C.S.P. Ojha)
49. R.K. Gupta: Kinematic Wave Modelling of snow avalanche motion, Dec. 1999 (N. Sharma, and C.S.P. Ojha)
50. A. Gupta: Expert system for pesticides regulation, Jan., 1999, (C.S.P. Ojha)
51. R. Chauhan: Analysis of flow through bottom racks, Feb. 2000. (C.S.P. Ojha)
52. L.C. Goel: Seepage analysis of an earthen dam with an upstream lining. January 2000, (C.S.P.Ojha and G.C. Mishra)
53. C.P. Gupta: Transient analysis of seepage through an earthen embankment using FEM, Feb. 2000 (C.S.P. Ojha and P. Bhargava)
54. P.S. Juneja: A study on transmissivity and storage characteristics of soils, Feb. 2001 (C.S.P.Ojha and N.K.Samadhiya)
55. Rahul Goel: Evaluation of certain ANN training algorithms, Feb. 2001 (C.S.P.Ojha and P.Bhargava).
56. Aseem Thakur: Computer-aided operation of filtration units, Dec. 2002. (C.S.P.Ojha).
57. M.M. Mohan Reddy: Stochastic Analysis of Contaminant Transport Through Soils, Feb. 2003 (C.S.P.Ojha and K.S.H. Prasad).
58. Pradeep Verma: Numerical solution of advection-diffusion equation, June 2004. (K. S. Hari Prasad and C. S. P. Ojha).
59. Niranjan Sahu: Local control of irrigation canal, June 2004. (C.S.P. Ojha, P. K. Swamee, S. Mukherjee).
60. B.V.S. Jagadeesh: Kinematic wave model for furrow irrigation and identification of model parameters, June 2004. (C.S.P. Ojha, K.S. Hari Prasad).
61. Neeraj Kumar Mishra: Analysis of steady flow through a homogeneous earth dam with horizontal toe drain, June 2004. (C.S.P. Ojha and G.C.Mishra).
62. J.H. Yunus: Computer Simulation of Wind Flow around a building, June 2005, (P.Bhargava and C.S.P.Ojha)
63. S.Roy: Studies on Seepage erosion below earth dam, June 2005 (C.S.P.Ojha)
64. Muralidhar, S.: Parameter Estimation for Flood Frequency analysis, June 2005 (C.S.P.Ojha and P.Bhuniya)
65. M.K.Goyal: Calibration of ANN models using Genetic Algorithms, June 2006 (C.S.P.Ojha and P.Bhargava) [deals with rainfall- runoff modeling]
66. V.B.Singh: Estimation of Unsaturated Soil Properties, June 2006 (C.S.P.Ojha and K.S.H.Prasad)
67. Manoj Patne: Optimal well location in a river bank filtration system, June 2006 (C.S.P.Ojha and K.S.H.Prasad)
68. S.R.Sathe: River bank filtration studies at river Ganges and Inns (C.S.P.Ojha and Bernhard Wett, Univ of Innsbruck, Austria), June 2006
69. A.Kumar: Development of a decision support system for BOD and DO simulation in a stream, June 2006 (C.S.P.Ojha and R.Jha)
70. K.Sohoni: Clogging of porous beds, June 2007 (C.S.P.Ojha)
71. T. Venkata Gopal: Estimation of unsaturated soil parameters from infiltration and internal drainage tests, June 2008, (C.S.P.Ojha and K.S.H.Prasad)
72. A.S.Alemayehu: Estimation of aquifer parameters from pumping test data using Genetic Algorithms, June 2008, (C.S.P.Ojha and K.S.H.Prasad)

73. Mayak Shekhar Pant: Estimation of hydropower potential using hydrologic modeling, June, 2009 (C.S.P.Ojha)

74. Chetan Sharma: Forecasting of monthly averaged stream flow data using ANN and SVM, June, 2009 (C.S.P.Ojha and Pillai N.)
75. Rajesh Kumar: Estimation of crop evapotranspiration with dual crop coefficient approach, June 2010 (C.S.P.Ojha and K.S.H. Prasad)
76. Ambikesh Mishra: Impact assessment of land use dynamics on urban flooding, June 2010 (C.S.P.Ojha, A.Gairola and D.S.Arya)
77. R.K.Meena: Simulation of solute transport through porous media, June 2010 (C.S.P.Ojha and P.K. Sharma)
78. Vishakha Makwana: Discharge characteristics of bottom racks with T-shaped bars, June 2011 (Z.Ahmad and C.S.P.Ojha)
79. Avinash More: Analysis of flow through infiltration gallery, June 2011 (C.S.P.Ojha and K.S.H.Prasad)
80. Reena Sarpota: Evaluation of Root depth evapotranspiration relationship, June 2011 (K.S.H.Prasad and C.S.P. Ojha)
81. Kaushika G. S.: SWAT based hydrological modeling of upper Ganga catchment, June 2012 (C.S.P. Ojha)
82. Dhananjay Kalah: SCS-CN and Gamma Distribution based Runoff Generation for an Industrial Watershed, June 2012 (S.K. Mishra and C.S.P.Ojha)
83. Seraj Ahmad: Sediment Removal Efficiency of Pressurized Desilting Chambers, June 2012 (Z. Ahmad and C.S.P. Ojha)
84. Pankaj Jakhar: Numerical Solution of Richard's Equation, June 2014 (C.S.P. Ojha)
85. Pawan Kumar: Analysis of flow field in the Proximity of Roughness Elements, June 2014 (C.S.P. Ojha)
86. Santosh Nogiya: Performance Evaluation of Surface Irrigation, June 2014 (K.S.H.Prasad and C.S.P.Ojha)
87. Manish Shukla: Simulating open channel flow using Smooth Particle Hydrodynamics method, June 2015
88. Manish Kumar Mall: Mathematical modelling of meandering river, June 2015
89. Uttam Kumar: Analysis of flow through Sharp Crested Compound Weir, June 2015
90. Amit Kumar: Analysis of flow through Infiltration Gallery (K.S.Hari Prasad and C.S.P.Ojha), June 2015
91. Dessalew tadesse: Hydraulics of Gabion Weirs (Z.Ahmad and C.S.P.Ojha), May 2016
92. Hailemariam Mengistu: Expermental study on soil moisture characterization, June 2016
93. Mahak Neema: Drought Characterization in Rajasthan, June 2016
94. Neha Lakhwan: Crop Yield Estimation using Remote Sensing Approaches (C.S.P.Ojha and O.P.Dubey), June 2016
95. Muskan Mayank: Modeling Solute Transport through Unsaturated Porous Media (P.K. Sharma and C.S.P. Ojha), June 2016
96. Seelam Nagapoojitha: River Bank Filtration: Clogging Effects (K.S. Hari Prasad and C.S.P.Ojha) Approaches, June 2016
97. Sourabh Kakani:, Numerical modeling of reactive transport through fractured porous media (P.K. Sharma and C.S.P. Ojha), June 2016
98. Kavita Dhiman: Rainfall shifts due to climate change (K.S.Hari Prasad and C.S.P.Ojha), June 2016

99. Sagar Manchanda: Groundwater exploration using Ground Magnetic Resonance (GMR), (P.K. Sharma and C.S.P. Ojha), June 2017
100. Anuj Singh Chaudhary: Solute transport through triple permeability media: an experimental study (P.K. Sharma and C.S.P. Ojha), June 2017
101. M. Ishaan: Flow Simulation of upper Ganaga basin using VIC model , June 2017
102. Jaydeep Dhyani: Study of land cover change and its impact on runoff in small watershed, May 2017
103. Shefali Gupta: Assessment of groundwater pollution potential using Remote Sensing and GIS, May 2017
104. Shubham Goswami: Vadose zone modeling under varying environmental conditions, June 2018
105. Abhay Dhatwalia: Dynamic Crop Growth Simulation Using Infocrop Model (C. S. P. Ojha and Ashish Pandey), June 2019
106. Al Azhar: Dynamic Crop Growth Simulation Using DSSAT Model (C. S. P. Ojha and Ashish Pandey), June 2019
107. Ganpat Rathore: Analysis and Design of porous pavements, (S.S.Jain and C.S.P.Ojha), June 2019
108. Avinash Saxena: Analysing long term trends on monthly precipitation in Sutlej-Beas basin area, June 2020
109. Saurav Aswal: Monthly Trend analysis of temperature on Sutlej –Beas basin using Mann- Kendall and Sen-Slope Estimator, June 2020
110. Japjeet Singh: Stream flow quantification using SWAT on sub-catchment of Narmada River in Madhya Pradesh, June 2021
111. Shyam Sunder Soni: Frequency Analysis of Extreme Precipitation in Indian River Basins, June 2021
112. Ankur Agarwal: Effect of Snow and Glacier changes on the Himalayan Watershed, June 2021
113. Saurav Raj: Improving Climate Simulations Applying Machine Learning, June 2022
114. Shikhar Sharma: Comparative evaluation of scour around I, L and T spurs on gravel bed, June 2023
115. Rupak Kumar: Aeration Performance of Sharp Crested Weir, (K.S.Hari Prasad and C.S.P.Ojha), June 2024
116. Nishant: Flow Discharge and Parameter Estimation of Compound Channel, (K.S.Hari Prasad and C.S.P.Ojha), June 2024
117. Kartikeyan Mishra: Specific Energy and Scour variation around L-head Groyne in gravel bed, June 2024.

ORGANIZATIONAL ACTIVITIES

- Organising Secretary, International Workshop on River Bank Filtration (March 1-2, 2004 at IIT Roorkee) in collaboration with University of Hawaii, USA
- Organising Secretary, EU-India Workshop on River Bank Filtration (April 4, 2005 at IIT Roorkee) in collaboration with Dresden University of Applied Sciences, Germany
- Organised an EU-India Essay contest on River Bank Filtration (April -June 2005) in collaboration with Dresden University of Applied Sciences, Germany
- Organised EU-India working group meeting and workshop with Farmers and NGOs at IIT Roorkee, Feb. 27-March 3, 2006

- Organising Secretary, Indo-Australian Conference on IT and Computer Applications in Civil Engineering, IIT Roorkee, Feb. 21-22, 2006
- Member of Program Advisory Panel for Fourth International Slow Sand and Alternative Biological Filtration Conference, May 2-5 2006, IWW Institute, Mulheim, Germany
- Coordinator (IITR) for IIT Roorkee-University of Applied Sciences, Dresden, Germany Academic Exchange Program (Oct. 2006-Sept 2015)
- Organising Secretary, EU-India International Conference on River Bank Filtration in collaboration with University of Applied Sciences, Dresden, IIT Roorkee, Nov. 18-19, 2006
- Organising Secretary, Training workshop in collaboration with Lund Institute of Technology, Sweden, on "Hydrological analysis in ungauged catchment: Special reference to Flood Estimation (HAUC)", March 21-22, 2007
- Scientific partner in Cooperation Centre on River Bank Filtration at Haridwar (First of its kind in South East Asia and established with financial support of Germany), since Sept. 2007.
- Organising Secretary, Indo-German Workshop on Pathogen Removal during River Bank Filtration (sponsored by Dusseldorf Water Works, Germany), 22-23 Sept. 2007
- Organising Secretary, Indo-Canadian workshop on Conservation and Management of Water Resources, Feb. 27-28, 2008 (in collaboration with McGill University, Canada)
- Organising Secretary, Indo-U.K. workshop on Management of Water Resources under Climate and Environment Change, Sept. 12-13, 2009, (in collaboration with University of Heriott-Watt, U.K.)
- Organised Working Group meeting of Indian and EU partners for the project CEOP-AEGIS led by Dr. Mossimmo, Delft Institute of Technology, Netherland, Sept 2009
- Secretary, Humboldt House of Uttranchal State, April 2009-March 2012.
- Chairman, International Conference on Sustainable Water Resources Management and Climate Change Adaptation, NIT Durgapur, Feb. 17-19, 2011.
- Member, Scientific Committee, 5th International Perspective on Water Resources and the Environment, ASCE Conference, Marrakech, Morocco, January 5-7, 2012.
- Organised Indo-UK Stakeholders workshop on Mitigating Impact of Climate Change through Agricultural Water Management, IIT Roorkee, April 14-15 2012.
- Member, Scientific Committee, International Conference on Engineering and Information, Shanghai, China, Aug. 2012
- Observer and Invited Speaker, First Orlob Symposium on Theoretical Hydrology, University of California, Davis, USA, Aug. 2013.
- Member, Scientific Committee, International Conference on Biological and Slow Sand Filtration, Nagoya, Japan, 2014
- Organising Secretary, Indo-U.K. Stakeholders workshop on Mitigating Impact of Climate Change on Indian agriculture, IIT Roorkee, June 2015
- Chairman, Indo-U.K. Stakeholders workshop on Mitigating Impact of Climate Change on Indian agriculture, NIT Hamirpur, June 2015
- Co-Chairman, HYDRO-2015, International Conference on Hydraulics, Water Resources and River Engineering, IIT Roorkee, December 2015
- Course Co-ordinator, TEQIP course on Remote Sensing and GIS applications in Hydrology, January 27-31, 2016 (with invited faculty from Stanford University, USA and UNSW, Australia)
- Joint Convener, National workshop on Mitigating Impact of Climate Change on Indian

agriculture, IIT BHU, Varanasi, July 2016

- Organising Secretary, Indo-U.K. workshop on Sustainable Management of Water Resources in Satluj Beas Basin, Oct 2016
- Convener TEQIP course on Sustainable Environmental Management, IIT Roorkee, March 2017.
- Co-ordinator for Mitigation of flood disaster due to hydrological extremes, IIT Roorkee, Oct 21-22, 2020
- Co-Chairman, ASCE-EWRI IPWE Bhopal Conference, January 2025.

SALIENT INVITED LECTURES

1. Modelling of Slow Sand Filters, IWW, Mueilheim, Germany, July 2002.
2. Waste Water Renovation using Soil-Aquifer Treatment, Indo-French Centre for Advanced Research, New Delhi, Feb. 2004
3. Delivered a series of lectures in the area of Geo-environmental Engineering at AIT Bangkok between Aug-Oct, 2004
4. Exploring Energy Potential of Municipal Solid wastes in South and South East Asian Nations, EU-Asia Pro-Eco Meeting, Tribhuvan University, Nepal, Oct. 2004 [Invited to deliver lecture from Asian Institute of Technology, Bangkok in the capacity of Visiting Professor of Geo-Environmental Engineering at AIT, Bangkok]
5. Riverbank Filtration at Haridwar, University of Applied Sciences, Dresden, Germany, Sept. 2005
6. Water Resources Management in India, Issues and Priorities, McGill University, Canada, July 2007
7. India's Challenges in Water Sector, University of Heriot-Watt, U.K., Dec 2008
8. Cost Effective Water Abstractions from River Banks and International Cooperation, University of Heriot-Watt, U.K., January 2009
9. Flow predictions in ungauged catchments and its implication on sustainable water supply, Lund University, Sweden, June, 2009
10. Flooding, sediment management and stream pollution, KTH Royal Institute of Technology, Stockholm, June, 2009
11. River Bank Filtration, University of Missouri-Kansas Campus, USA, May 10, 2010
12. Water Availability-Hydrological Investigations for Lake Pichola, India, Purdue University, USA, May 11, 2010
13. Impact of anthropogenic activities on the hydrological regime of Lake Pichola, Udaipur (India), Desert Research Institute, Reno, USA, May 14, 2010
14. Climate Change Investigations for Lake Pichola, Japan, Arid Land Research Centre, Tottori, Japan, Dec. 15, 2010
15. Eutrophication in an Arid-lake and its management, Tokyo Metropolitan University, Dec 22, 2010.
16. Exposure to certain problems of Indian Water Resources, Kyushu University, Japan, January 4, 2011
17. Curtis Professor Seminar on Water Resources Management in India, Civil Engineering, Purdue University, USA, Nov. 2012
18. Evaluation of two river bank filtration sites in India, International Ground Water Conference, Aurangabad (Invited Speaker from Purdue University) Dec 2012
19. Modelling root water uptake, DRI, Reno, USA April 2013
20. Root water uptake research at IIT Roorkee and International Collaborations, IIT Bombay, (Invited Speaker from Purdue University), Feb 2013
21. Development of a rational approach for estimating air vapor pressure in evaporation sites,

Invited Speaker, University of California Davis, USA Aug 2013.

22. Potential of Model Studies in Water Resources Projects, NIT Kurukshetra, (Guest of Honour & Invited speaker), Nov 2013
23. Water resources management in India: Burning Issues, S.N. Gupta Memorial Lecture in HYDRO International 2013 at IIT Chennai, Dec 2013
24. Velocity Distribution in Open Channels: Strategies for Parameter Estimation, NIT Hamirpur (Invited Speaker& Chief Guest in 40th Conference on Fluid Mechanics & Fluid Power), Dec 2013
25. Research needs in Hydro-Power, Water-Supply & Irrigation, NIT Rourkela (Invited Speaker in Civil Engg Consortium of NIT Rourkela), Dec 2013
26. Industrial Waste Water Treatment Using Macrophytes, Indo-German Workshop on Water & Wastewater Management, IIT Delhi (Invited Speaker), Jan 2014
27. Rejuvenation of river Ganges: Technical and Societal Issues, Seminar at University of New South Wales, Australia, April 2015
28. Keynote lecture on Climate change and sustainable water resource management, IOE Graduate Conference, Tribhuvan University, Nepal, December 2015
29. A series of four lectures in the course on Characterizing the uncertainties in climate change impacts assessment for water resources under Global Initiative of Academic Networks (GIAN), NIT Hamirpur, February 2016, Invited as a course faculty (with collaborators from University of Heriot-Watt, UK)
30. A series of lectures related to Clogging of filter beds, River bank filtration in India, Advanced eco-friendly techniques for waste water treatment at South East University, China in an International School on Sixth Innovative Summer program on Water Engineering in July 2016
31. Subhash Chander Memorial lecture awarded by Earth Science Society, India, on River Basin Planning and Management: A Holistic Approach, Oct 23, 2017.
32. Pixel level spatio-temporal assessment of water yield for Uttrakhand state, East China Normal University, Shanghai, China, Nov. 6, 2017.
33. Drainage from rigid and porous pavements, Department of Engineering, The St. Petersburg University, Petersburg, Russia, May 2019.
34. Priority Issues in Indian Water Education: A brief perspective on existing water curricula, Regional Workshop on Water Education in Asia and Pacific, Sept 4-5, 2019, UNESCO, Jakarta, Indonesia.
35. Urban flooding in India. East China Normal University, Shanghai, China, Nov. 6, 2019.
36. Insights from Newton-Bhabha project on Satluj Beas basin Hydrology, WEIGH Indo-UK workshop, IIT Mumbai, Sept 7, 2020.
37. Consideration of Climate Change in Water Resources Planning and Management, International Virtual workshop on Climate Change Impact on Water Resources Systems, organized by NIT SILCHAR, Oct 2, 2020. (Guest of Honour).
38. Sustaining Himalayan Water Resources in Changing Climate. Indo-UK Stake Holders Workshop, Nov 25, 2020
39. COVID-19 and Floods in South and South East Asia, UNESCO-IHE, Delft, Dec 8, 2020
40. Holistic Management of Indian Water Resources, INAE, New Delhi, January 7, 2021.
41. Evolution of Rainfall-Runoff models, Key Note Lecture, Hydro International 2020, NIT Rourkela, March 26, 2021.
42. Non-Point Source Pollution: Current Scenario in India, Invited Key Note Lecture, URNSPC 2022, Nanjing, China, June 2022.
43. Potential of River bank filtration as a water treatment technology, Key Note Lecture in Workshop on Drinking-Water and Sanitation: Current Situation and Future Challenges, WRDM, IIT Roorkee, July 01, 2022.
44. Smart Engineering for Sustainable Development, Invited Key Note Lecture on 55th Engineers Day, Institution of Engineers, Roorkee Local Center, September 15, 2022.
45. Water Resources Management Practices in India, Keynote Lecture in Hydraulics & Hydrology

Fall 2022 Seminar Series Purdue University, October 4, 2022.

46. Flow over stepped spillways: Recent Developments, Plenary Lecture, Hydro International 2022, Punjab Engineering College, Chandigarh, December 23, 2022.
47. Holistic Management of Water Resources in Satluj beas basin, Key Note Lecture in Workshop on Impact of Climate Change on Water Resources of the Indus basin, WRDM, IIT Roorkee, February 15, 2023.
48. Evolution of Hydraulic Geometry Relationships, Key Note Lecture Hydro International 2023, NIT Warangal, December 21, 2023.
49. Certain Measures for Enhancing Safety of Hilly Roads Under Climate Change, Key Note Lecture, National Highway Excellence Awards, Ministry of Road Transport and Highways, Delhi, February 6, 2024
50. Application of AI and ML in Water Resources Engineering, Key Note Lecture, NIT Silchar, February 18, 2024.
51. Engineering Interventions for Sustainable Development in Water Resources, Key Note Lecture, NIT Bhopal, March 22, 2024.
52. Impact of Deforestation on Himalayan Watersheds, KSCSTE- Kerala Forest Research Institute, Kerala India, July 9, 2024

Special Publications

1. C.S.P.Ojha and R.Jha (2005) (Eds.). Special Issue on River Bank Filtration, Journal of Indian Water Resources Society, April 2005.
2. Ray, C., and C.S.P.Ojha (2005), "River Bank Filtration: Theory, Practice and Potential for India", Cooperative Report CR 2005-01, Published by Water Resources Research Centre, University of Hawaii at Manoa, USA
3. Stefan A., Sathe, S., Michael, S., Wett, B., C.S.P.Ojha and W. Rauch (2006) Lecture Notes on "Numerical Methods in ground water and river bank filtration modeling", A Joint publication of University of Innsbruck, Austria and IIT Roorkee, Nov. 2006, pp. 1-100