

Résumé

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(MASCE, MISTE, MIE, MSGAT, MIAH)

ADDRESS

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RESEARCH IDs

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PERSONAL DETAILS

Nationality: Indian

Sex: Male

Marital Status: Married

Date of Birth: 05/05/1966

QUALIFICATIONS:

Qualification	Board/University	Mode	Subjects	Year of Passing	Percentage of Marks Secured	Division/Grade
Matriculation	BSE, Odisha, India	Regular	Eng, Science, SS, Maths	1982	73.71	1 st
Intermediate of Science (I.Sc.)	Utkal University, Odisha, India	Regular	Phy, Chem, Maths, Geol, Eng	1984	56.22	2 nd
Bachelor in Science (B.Sc.)	Utkal University, Odisha, India	Regular	Phy, Maths, Geol, Eng	1986	62.5	1 st
Master in Science (M.Sc.)	Ranchi University, Jharkhand, India	Regular	Geology	1989	71.63	1 st
Master in Science (M.Sc.)	TGOU, Nagaland, India	Distance	Remote Sensing & GIS	2011	65	1 st

Qualification	Board/University	Mode	Subjects	Title of Thesis	Year of Passing	Percentage of Marks Secured	Division/Grade
Master of Technology (M. Tech)	Biju Patnaik University of Technology	Regular	Environmental Engineering	Water Resource Evaluation and its impact assessment of saline water to freshwater aquifers all along Puri and its adjacent areas)	2013	8.8 CGPA	1 st (Topper)
Ph.D.	Utkal University	Regular	Groundwater Hydrology	Groundwater potential and quality of the area around Athgarh, Cuttack district, Orissa-A hydrogeological evaluation	2004		Awarded

EXPERIENCE:

Designation	Institution	Address	From	To
Professor (Hydraulic & Water Resources Engineering)	Water Technology Institute, Arba Minch University	Arba Minch, Ethiopia	01/02/2020	30/06/2023
Professor (CE) cum Dean Administration	Gandhi Institute for Education & Technology	Baniatangi, Bhubaneswar, India	01/08/2019	21/12/2019
Director cum Principal	Universal Institute of Engineering & Technology, UGI Group of Institutions	Lalru, Derabassi, Mohali, Punjab, India	15/05/2018	02/07/2019
Professor (CE) cum Dean Academic Affairs	DRIEMS Autonomous Engineering College	Cuttack, India	07/03/2018	14/05/2018
Professor (CE)	Orissa Engineering College	Bhubaneswar, India	17/12/2012	06/03/2018
H.O.D (CE)	Orissa Engineering College	Bhubaneswar, India	16/06/2011	30/09/2016
Associate Professor (CE)	Orissa Engineering College	Bhubaneswar, India	01/10/2010	16/12/2012
Assistant Professor (CE)	Orissa Engineering College	Bhubaneswar, India	22/08/2004	30/09/2010
Lecturer (CE)	Orissa Engineering College	Bhubaneswar, India	01/10/1993	21/08/2004

Contribution to Administration:

- Managing the day to day activities of a college
- Designed course curriculum
- Financial upgradations
- Preparing Academic regulations
- Conduct university examinations

Contribution to Teaching:

- Groundwater Engineering
- Engineering Geology
- Environmental Engineering
- Remote Sensing and GIS
- Non-Conventional Energy Sources
- Water Resources Management
- Wastewater Engineering
- Disaster Management
- Solid & Hazardous Waste Management
- Water Supply & Sanitary Engineering
- Building Material
- Research Methodology

Contribution to Laboratory works:

- Engineering Geology lab
- Groundwater surveying lab
- Atomic absorption spectrophotometer lab
- Physical and chemical quality of water lab
- Environmental engineering lab
- Soil Lab

Contribution to Profession:

- Guiding for seminars
- Guiding for projects
- Guiding for practical training

Contribution to Consultancy/Project works:

- Surveying in Coal handling plant, Paradeep, Orissa.
- Investigation and assessment of groundwater around Orissa Engineering College Campus, Bhubaneswar: A cryptic study for environmental impact.
- Geophysical Investigation (Vertical Electrical Sounding Test) for installation of tube well at BPCL factory, Khurda, Orissa.
- Integrated assessment of water quality environmental impact: A case study of Orissa Engineering College campus.

- and its environmental impact: A case study of the templecity, Bhubaneswar.
- Roof top rain water harvesting and its
- MODROB project: Financed by All India Council of Technical Education, Govt. of India 2006,2011 & 2013.
- Selected as an expert in groundwater hydrology by UNESCO for its project in Orissa, India.

Skills:

- Microsoft office
- Arc GIS
- ERP
- Google sheet sharing

Membership:

- Indian Society for Technical Education (Life Member; 1995)
- Society of Geoscientist and Allied Technologists (Life Member; 1996)
- Shilalipi (Life Member; 2001)
- International Association of Hydrogeologists (LM, 2010)
- American Society of Civil Engineers (Affiliate Member; 2015)
- Institute of Civil Engineers (India), Associate Member, (Life Member; 2016)

Short Term Training Program (STTP)/Seminar/Conference/Workshop attended:

Sl No.	Title	Type	Organization	From	To
1	Performance appraisal and development system in technical education: Need for effective implementation	Conference	College of Engg & Technology, Bhubaneswar, India	09/06/1998	10/06/1998
2	Advances in environmental science and engineering	STTP	University College of Engineering, Burla, India	01/03/2004	13/03/2004
3	Optimization techniques and its application in water resources system planning and management	STTP	University College of Engineering, Burla, India	15/03/2004	27/03/2004

4	Workshop by UNESCO on Groundwater for emergency situations: Odisha Pilot Project	Workshop	KIIT University, Bhubaneswar, India	10/05/2010	12/05/2010
5	Recent trends in medical imaging using VLSI	Staff Development Programme	Orissa Engineering College, Bhubaneswar, India	19/12/2011	31/12/2011
6	International Conference by UNESCO for popularization of science, 4th-5th January 2011, KIIT University, Bhubaneswar	Conference	KIIT University, Bhubaneswar, India	04/01/2012	05/01/2012
7	Challenges in Advanced Civil Engineering	Workshop	Orissa Engineering College, Bhubaneswar, India	17/12/2014	17/12/2014
8	Natural Disaster and its Preparedness: A case study of Orissa, Constructive workshop on Disaster Management action plan	Workshop	Orissa Engineering College, Bhubaneswar, India	Natural Disaster and its Preparedness: A case study of Orissa, Constructive workshop on Disaster Management action plan	Workshop
9	Technical Problems related to noise pollution and its impact on environment	Conference	Orissa Engineering College, Bhubaneswar, India	Technical Problems related to noise pollution and its impact on environment	Conference
10	International Conference on Sustainable Energy and Environment	Conference	Orissa Engineering College	04/03/2016	05/03/2016
11	Entrepreneurship Awareness Camp	Seminar	Universal Group of Institutions, Mohali, India	05/08/2018	07/08/2018
12	Social and Technological Augmented Research	Conference	Universal Group of Institutions, Mohali, India	08/04/2019	09/04/2019
13	International Conference on Emerging Trends and Innovations in Social Sciences, Engineering, Management, Agriculture & Medical Sciences	Conference	Universal Group of Institutions, Mohali, India	26/04/2019	27/04/2019
14	Monitoring and Maintaining Existing Roads; Drainage Disposal System	Workshop	Rajdhani Engineering College, Bhubaneswar, India	17/01/2020	18/01/2020

Publications:

2005

1. **T K Lohani**; Statistical approach to physico-chemical and trace element analysis of groundwater samples in Athgarh area, Orissa, *Indian Journal of Environmental Protection (Scopus)*, ISSN 0253-7141, Vol.25 (6), pp. 535-545
2. **T K Lohani**; Groundwater resource evaluation of a combined Precambrian and Gondwana Terrain – A case study of Athgarh region of Orissa, *Journal of the Society of Geoscientists and Allied Technologists*, ISSN 0972-2173, Vol.6 (1), pp. 1-12
3. **T K Lohani** and P N Behera; Hydrochemistry of Athgarh area and its Environmental Impact, *Vistas in Geological Research, Special publication in Geology*, Utkal University, ISSN 81-900907-0-4, Vol.4, pp. 42-54

2006

4. Behera P, **Lohani T**, Pandya K.L, Hydrochemistry of Groundwater in Athgarh area of Cuttack district-A cryptic study for environmental impact, *Indian Journal of Environmental Protection (Scopus)*, ISSN 0253-7141, Vol.26 (2), pp. 129-136

2011

5. **T K Lohani**, K P Dash and N Pattnayak; Rain water harvesting technologies and practices in and around Orissa Engineering College Campus, Odisha: A case study, *Journal of Chemistry and Environment (An International Journal)*, ISSN 0971-6408, Vol.18 (2), pp. 50-53
6. **Lohani T K**, Dash K P and Parida P K; Groundwater investigation around Nabajyotivihar, Jatni, Bhubaneswar by vertical electrical sounding, *International journal of Civil and Structural Engineering*, ISSN 0976 – 4399, Vol.2 (2), pp. 689-698
7. **Lohani T K**, Pattnayak N and Agrawal K K; Drinking water quality management through various physico-chemical parameters and health hazard problems with their remedial measures in Bhubaneswar city of Odisha, India, *International Journal of Environmental Science (Scopus)*, ISSN 0976-4402, Volume 2 (3), pp. 1192-1210

2012

8. **T K Lohani** and K P Dash; Soil characteristics and its behavior in the lower flood plain of river Daya in Odisha, India, *International Journal of advanced civil engineering and architecture research*, ISSN: 2348-5124, Vol.1 (1), pp. 16-24
9. **Lohani T K**, Padhi M, Dash K P and Jena S; Optimum utilization of quarry dust as partial replacement of sand in concrete, *International Journal of Applied Sciences and Engineering Research (Scopus)*, ISSN 2277-8442, Vol.1 (2), pp. 391-404
10. **T K Lohani** and N Pattnayak; Consumption and effluent discharge of stream water through its siphonic movement in industries, *Journal of Chemistry and Environment (An International Journal)*, ISSN 0971-6408, Vol.19 (1), pp. 35-44
11. **Lohani T K**, Jena S, Dash K P and Padhi M; An experimental approach on geopolymeric recycled concrete using partial replacement of industrial byproduct, *International journal of Civil and Structural Engineering*, ISSN 0976-4399. Vol.3 (1), pp. 141-149

12. **Lohani Tarun Kumar**; Salient features of lithological distribution and feasibility study of water resources in coastal aquifers of Puri, India, *International journal of Environmental Engineering Research*, ISSN 2278-1331, Vol.1 (2), pp. 60-69
13. **T K Lohani** and T P Satpathy; Survival of the rarest subspecies (Tiger) against the genetic diversity: A challenge to the ecologists. *International Journal of advanced alternative energy, environment and ecology*, ISSN 2348-5159, Vol.1 (1), pp. 39-43
14. **T K Lohani** and K P Dash; Study of Index properties & the predominance of shear & cohesion of soil in the flood plain of river Daya of Odisha, *International Journal of engineering sciences and research technology*, ISSN: 2277-9655, Vol.2 (3), pp. 457-463

2013

15. **Tarun Kumar Lohani** and Taraprasad Satpathy; Influence of biodiversity on habitats and its impact on Indian ecosystem. *International Journal of engineering sciences and management*, ISSN: 2277:5728, Vol.2(4), pp. 373-376
16. **T K Lohani**; Effects and remedial measures of 1999 SUPERCYCLONE in the coastal districts of Odisha: A case study of Puri district, *International Journal of Engineering Sciences and Management*, ISSN: 2277-5528, Vol.3 (1), pp. 27-41
17. **Dr. Tarun Kumar Lohani**; Interpretation of hydrogeological parameters from vertical electrical sounding (A case study of Shamuka Beach in Odisha), *International Research Journal of Humanities, Engineering & Paramedical Sciences*, ISSN: 2320-2955, pp. 32-37
18. **Tarun Kumar Lohani** and Santosh Kumar Samantara; Hydrological parameters and Aquifer Studies in Bolangir district of Odisha, *International Journal of Engineering Sciences and Technology*, ISSN: 2277-9655, Vol.2 (2), pp. 932-935
19. **Tarun Kumar Lohani** and Bidhu Bhusan Mishra; Massive industrialization in the state of Odisha and its effect on cultural diversity at different workplaces, *International Journal of Engineering Sciences and Management*, ISSN: 2277-5528, Vol.3 (1), pp. 42-55
20. **T K Lohani** and K P Dash; Study of Index properties & the predominance of shear & cohesion of soil in the flood plain of river Daya of Odisha, *International Journal of engineering sciences and research technology*, ISSN: 2277-9655, Vol.2 (3), pp. 457-463
21. **T K Lohani**, S Pati and K P Dash; Experimental studies on index and engineering properties of expansive soil & crusher dust mixture, *Asian Academic Research Journal of Multidisciplinary*, IF: 1.023, ISSN: 2319-2801, Vol.1 (14), pp. 564-572
22. **T K Lohani** and S K Jena; Study of Physical Properties of Crusher Products from Chandikhol Area of Odisha and their suitability in light of Civil Engineering use, *International Journal of Engineering Research-Online*, ISSN: 2321-7758, Vol.1 (1), pp. 55-60
23. **T K Lohani**, T C Samant, R S Patnaik and K P Dash; Improvement of Drainage System in Cuttack-Bhubaneswar twin city, Odisha, *Journal of Water Resource and Hydraulic Engineering*, ISSN: 2306-7691, Vol.2 (3), pp. 104-115
24. **T K Lohani** and M Padhi; Analysis of bearing capacity and selection of shallow foundation using C^{++} , *Asian Academic Research Journal of Multidisciplinary*, IF: 1.023, ISSN: 2319-2801, Vol.1 (16), pp. 20-43
25. **Tarun Kumar Lohani** & Priyabrata Mishra; K-B-K districts of Odisha: How far those under developed districts are poverty alleviated, *International Journal of Engineering Sciences and Management*, ISSN: 2277-5528, Vol.3 (1), pp. 56-60

2014

26. **T K Lohani**, P Barik, B C Patnaik and S K Mansingh; Micro Level Geo-Resistivity Survey through V.E.S. test for Groundwater feasibility study and selection of Bore Well sites in Pipili block of Puri, *Review of Environment and Earth Sciences*, ISSN No. 2313-8440, Vol.1 (3), pp. 37-45
27. **T K Lohani**; Design and Detailing of a Waste Water Treatment Plant for a small community, *Journal of Water Resource Engineering and Management*, ISSN: 2349-4336, Vol.1 (3), pp. 1-12
28. Saswat Keshari Jena and **Tarun Kumar Lohani**; Integrated study and quality analysis of surface drainage and sewer water for Bhubaneswar Municipal Corporation, India, *International Journal of Engineering and Technical research*, IF: 1.76,ISSN: 2321-0869, Vol.2 (10), pp. 121- 127
29. K P Dash, **T K Lohani** and H R Behera; Sub Soil Investigation and suitable type of foundation for construction of superstructure in the bank of Gangua Nallah, Bhubaneswar, *International Journal of latest research in Science and Technology*, IF: 2.51, ISSN: 2278-5299, Vol. 3 (3), pp. 90-94

2015

30. K.P. Dash, **T.K. Lohani**, D.R. Senapati and B.K. Ojha; Analysis & Design of T-Beam Bridge over Rangiya Nala, *International Journal of Structural Engineering and Analysis*, Vol.1 (2), pp. 1-17
31. Padhi Mamata, **Lohani Tarun Kumar**, Mishra Supriya & Bhanja Manisha; Producing High Strength Concrete using Recycle Coarse Aggregate with Glass Fibre, *International Journal of Environmental Planning and Development*, Vol.1 (1), pp. 38-43

2016

32. **T K Lohani**, K.P Dash, S K Jena and P K Parida; Design, Estimate, Costing and Execution of a two tier Outdoor Fountain, *Journal of Asian Scientific Research*, IF: 0.467, ISSN: 2223-131, Vol.6(4), pp.54-65
33. **Tarun Kumar Lohani** & Kamal Kishore Agrawal; Experimental Study and Determination of Water Quality Index of Daya River, *International Journal of Water Resources Engineering*, Vol.2(1), pp. 15-24
34. **T.K. Lohani**, K.P. Dash, P.K. Parida and S.K. Mansingh; Bamboo reinforced low cost house– A case Study, *International Journal of Town Planning and Management*, Vol.2 (1), pp. 59-70
35. **T K Lohani**, S Pati and M Padhi; Performance Evaluation of Self-Compacting Concrete using Brick Dust and Marble Powder, *International Journal of Trend in Research and Development*, IF: 2.010, ISSN: 2394-9333, Vol.3 (4), pp.31-35
36. **Tarun Kumar Lohani** and Subasis Pati; Augmenting the properties of black cotton soil by blending GGBS and CCR, *Journal of Civil and Construction Engineering*, Vol.2 (2), pp. 1-16
37. **Tarun Kumar Lohani**, Supriya Mishra, Subasis Pati and Kamal Kishore Agrawal; Effects of Fly ash and Lime in stabilizing Expansive Soil, *International Journal of Construction and Building Materials Engineering*, Vol.2 (2). pp. 1-15
38. **Tarun Kumar Lohani**, Sarmisthabala Prusty, Subhashree Patra and Manas Ranjan Asa; Design and Construction of Rigid and Flexible Pavement on the basis of laboratory tests and analysis, *International Journal of Rural and Regional Planning Development*, Vol. 2

(1), pp. 58-67

39. **Tarun Kumar Lohani** and Nilgrib Mohanty; Geotechnical Investigation and experimental analysis of alluvial and black cotton soil, *Journal of Geotechnical Studies*, Vol.1 (2), pp. 1-21
40. **Tarun Kumar Lohani**, Sharmisthabala Prusty, Sankalp Raj and Sanjay Kumar Mansingh; Installation of a small scale rainwater harvesting system, *International Journal of Water Resources Engineering*, Vol.2 (1), pp. 25-37

2017

41. **T K Lohani**; Variation on water quality parameters including trace elements of Brahmani river over a stretch of six districts in Orissa, India, *International journal of Water Resources Engineering*; ISSN: 2456-1606, Vol.3 (2), pp.53-61
42. **T K Lohani**; A review of geophysical, geochemical and geotechnical study of the marine soil of Mahakalapada with special allusion to its stratigraphic set-up, *International Journal of Geological and Geotechnical Engineering*, Vol.3 (2), pp.16-23
43. **T K Lohani**, S Pati, P K Parida; Detailed Project Report of designing a flexible pavement including cross drainage work of a village road in the suburb of Bhubaneswar, *Journal of Civil Engineering and Urbanism*, ISSN: 2252-0430, Vol.7 (6), pp..54-64

2018

44. Inamul Haq, Sajad Ahmad, Ishfaq Rashid Sheikh, **T K Lohani**, An experimental investigation on strength properties of soil with the addition of plastic waste material strips, *International Journal for Technological Research in Engineering*, ISSN: 2347-4718, Vol.6 (3), pp. 4821-4824
45. Aroos Karimi, **T K Lohani** & Sajad Ahmad Mir, An experiment investigation on partial replacement of coarse aggregates by rubber aggregates in cement concrete, *International Journal For Technological Research In Engineering*, ISSN: 2347–4718 Vol.6 (4), pp. 4856-4857
46. Karamjit Kaur & **Tarun Kumar Lohani**, Remarkable changes in index properties of soil due to stubble burning, *International Journal of Engineering and Advanced Research Technology*, ISSN: 2454-9290, Vol.4 (11), pp. 1-3
47. Aroos Karimi, **T K Lohani** & Sajad Ahmad Mir, Design of water supply scheme for BGSBU Rajouri, *International Journal for Technological Research In Engineering*, ISSN: 2347 – 4718 Vol.6 (4), pp. 4856-4857

2019

48. Nowsheeba Bashir & **Tarun Kumar Lohani**, Increasing the strength parameters of beams of M30 grade concrete by use of various FRPs, *International Research Journal of Innovations in Engineering and Technology*, Vol.3 (1), pp. 1-4
49. Karamjit Kaur, **Tarun Kumar Lohani** & Saurabh Bali, Transformation of inherited engineering properties of soil due to stubble burning – A case study, *Journal of Geotechnical Engineering*, Vol. 5 (3), pp. 33-36
50. Ilyas Mir, **T K Lohani** & Sajad Ahmad, A review on partial replacement of fine aggregate with sawdust for light weight and insulating concrete, *International Journal For Technological Research In Engineering*, Vol.6 (7), pp. 5108-5109
51. Ilyas Mir & **T K Lohani**, An Experimental Study of Sawdust as Partial Replacement of Sand to Generate Lightweight Concrete, *International Journal of Research*, Vol.6 (3a),

pp. 71-73

52. Mohd Yaseen, **T.K Lohani**, Gurpreet Singh, Study of Soil Stabilization Using Plastic Waste, *International Journal of Research*, Vol.6 (3a), pp. 62-65
53. Mohd. Yaseen, **T.K Lohani** & Gurpreet Singh, Soil Stabilization by Alkali Activated Fly Ash, *International Journal for Technological Research In Engineering*: ISSN No. 2347 – 4718, Vo.6 (9), pp. 5429-5431
54. Jaswinder Saini & **Tarun Kumar Lohani**, Use of Municipal and Industrial Wastewater in and around Nangal for Construction purposes, *International Journal of Innovative Technology and Exploring Engineering (Scopus)*: ISSN No. 2278-3075, Vol.8 (10), pp. 23-26

2020

55. Monica Luthra, **Tarun Kumar Lohani**, Abdella Kemal Mohammed, Melkamu Teshome Ayana, Mohammad Shabaz, Application of GIS software in analyzing hydrodynamics of sub surface water demeanor zones in Gondwana sedimentary terrain of eastern India, *Materials Today: Proceedings (Scopus)*, doi: 10.1016/j.matpr.2020.12.878
56. Surinder Singh, Mukesh Kumar, **Tarun Kumar Lohani**, Vishal Jagota, A Comparative Investigation of Self Compacting Concrete Using Mineral Admixture, *Solid State Technology*, Vol. 63 (6), pp. 17594-17604
57. **Tarun Kumar Lohani**, Abdella Kemal Mohammed, Melkamu Teshome Ayana, Phenomenal transmutations in quality of soil attributable to stubble burning: A Case Study of Punjab, India, *Materials Today: Proceedings (Scopus)*, doi: 10.1016/j.matpr.2020.09.353

2021

58. Dereje Mekonnen Bekele, Melkamu Teshome Ayana, Abdella Kemal Mohammed, **Tarun Kumar Lohani**, Mohammad Shabaz, Prophesying the stream flow and perpetrating the performance of Halele-Werabessa reservoirs of Ethiopia using HEC-HMS and HEC-ResSim, *World Journal of Engineering (ESCI, Scopus)*, Vol 18 (5), pp. 692-700, doi: 10.1108/WJE-11-2020-0573
59. Qi Yao, Mohammad Shabaz, **Tarun Kumar Lohani**, Mohammed Wasim Bhatt, Gurpreet Singh Panesar, and Raj Karan Singh, 3D modelling and visualization for Vision-based Vibration Signal Processing and Measurement, *Journal of Intelligent Systems (SCI, Scopus)*, 30:1–13, doi: 10.1515/jisys-2020-0123
60. Chirag Sharma, Bagga Amandeep, Rajeev Sobti, **Tarun Kumar Lohani**, Mohammad Shabaz, A Secured Frame Selection Based Video Watermarking Technique to Address Quality Loss of Data: Combining Graph Based Transform, Singular Valued Decomposition, and Hyperchaotic Encryption, *Security and Communication Networks (SCI, Scopus)*, Vol. 2021, Article ID 5536170, 1-19, doi: 10.1155/2021/5536170
61. Manik Rakhra, Ramandeep Singh, **Tarun Kumar Lohani**, Mohammad Shabaz, Metaheuristic and Machine Learning-Based Smart Engine for Renting and Sharing of Agriculture Equipment, *Mathematical Problems in Engineering (SCIE, Scopus)*, Article ID 5561065, 1-13, doi: 10.1155/2021/5561065
62. Dereje Mekonnen Bekele, Melkamu Teshome Ayana, Abdella Kemal Mohammed,

- Tarun Kumar Lohani**, Mohammad Shabaz, Computing the sediment and ensuing its erosive activities using HEC-RAS to surmise the flooding in Kulfo River in Southern Ethiopia, *World Journal of Engineering (ESCI, Scopus)*, Vol. 18 (5), pp. 692-700, doi: 10.1108/WJE-01-2021-0002
63. **Tarun Kumar Lohani**, Abdella Kemal Mohammed, Melkamu Teshome Ayana, Mohammad Shahbaz, Gaurav Dhiman, Vishal Jagota, A comprehensive approach using Geographic Information System in elucidating hydrological issues of the Hindu Holy City of Gaya in India, *World Journal of Engineering (ESCI, Scopus)*, doi: 10.1108/WJE-04-2021-0223
64. Abera S. Nanawo, **Tarun Kumar Lohani**, Abunu A. Eshete, Exemplifying the effects using WetSpass model depicting the landscape modifications on long-term surface and subsurface hydrological water balance in Bilate basin of Ethiopia, *Advances in Civil Engineering (SCIE, Scopus)*, Volume 2021, Article ID 7283002, 20 pages doi: 10.1155/2021/728300
65. **Tarun Kumar Lohani**, Melkamu Teshome Ayana, Abdella Kemal Mohammed, Jyotiranjana Pattanaik, Cramming the specificities in contemplating safe bearing capacity for foundation assessed from borehole samples in a sandy-moorum zone, *Advances in Civil Engineering (SCIE, Scopus)*, Volume 2021, Article ID 6642674, 11 pages, doi: 10.1155/2021/6642674
66. Vipin Kumar, Navneet Malik, Gaurav Dhiman, **Tarun Kumar Lohani**, Scalable and Storage Efficient Dynamic Key Management Scheme for Wireless Sensor Network, *Wireless Communications and Mobile Computing (SCIE, Scopus)*, Volume 2021, Article ID 5512879, 11 pages, doi: 10.1155/2021/5512879
67. Debebe Y. Eyesus, Koshuma A. Ermias, Defaru Katise and **Tarun K. Lohani**, Application of Different Modelling Methods to Arbitrate Various Hydrological Attributes Using CMORPH and TRMM Satellite Data in Upper Omo-Gibe Basin of Ethiopia, *Mathematical problems in Engineering (SCIE, Scopus)*, Volume 2021, Article ID 4143958, 11 pages, doi: 10.1155/2021/4143958
68. Habtamu Semunigus, Abebe Temesgen, Melkamu Teshome and **Tarun Lohani**, Extenuating the Parameters using HEC-HMS Hydrological Model for Ungauged Catchment in the Central Omo-Gibe Basin of Ethiopia, *Journal of Groundwater Science and Engineering (Scopus)*, Vol. 9(4): 317-325 doi: 10.19637/j.cnki.2305-7068.2021.04.005
69. Tigistu Yisihak Ukumo, Adane Abebe, **Tarun Kumar Lohani**, Muluneh Legesse Edamo, Flood hazard mapping and analysis under climate change using hydro-dynamic model and RCPs emission scenario in Woybo River catchment of Ethiopia, *World Journal of Engineering (ESCI, Scopus)*, Vol. 20(3). doi: 10.1108/WJE-07-2021-0410

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70. Mesfin Amaru Ayele, **Tarun Kumar Lohani**, Kinfu Bereda Mirani, Muluneh Legesse Edamo, Abebe Temesgen Ayalew, Simulating Sediment Yield by SWAT and Optimizing the parameters using SUFI-2 in Bilate River of Lake Abaya in Ethiopia, *World Journal of Engineering (ESCI, Scopus)*, doi: 10.1108/WJE-07-2021-0449
71. Melkamu Teshome Ayana, Yechale Kebede Bizuneh, Abera Ermias Koshuma, Belete Meketew Ali, **Tarun.Kumar Lohani**, Developing a Dem and Elucidating through Swat to conserve Soil in Kulfo Watershed of Rift Valley Basin, Ethiopia, *Applied and Environmental Soil Science (SCIE, Scopus)*, Volume 2022, Article ID 7702739, 8

- pages, doi: 10.1155/2022/7702739
72. Eldana Ayka Anka, Defaru Katise Dasho and Democracy Dilla Dirate, **Tarun Kumar Lohani**, GIS mapping used as supplementary tool to experimentally investigated subgrade soil for robust pavement design in rural area of Ethiopia, *World Journal of Engineering (ESCI, Scopus)*, doi: 10.1108/WJE-12-2021-0702
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87. Ridwan Ahmed Abdirahman, Ridwan Ahmed Abdirahman, **Tarun Kumar Lohani**, Groundwater Recharge and its Response to Land Use - Land Cover Dynamics in Biji Catchment of Marodi-Jeeh, Somaliland, *International Journal of Hydrology Science and Technology*, (**SCIE, Scopus**), doi: 10.1504/IJHST.2023.10055362
88. Kibru Gedam Berhanu, Samuel Dagalo Hatiye, **Tarun Kumar Lohani**, Coupling support vector machine and the irrigation water quality index to assess groundwater quality suitability for irrigation practices in the Tana sub-basin, Ethiopia, *Water Practice & Technology* (**ESCI, Scopus**), Vol. 18(4), 884 doi: 10.2166/wpt.2023.055
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90. Asnakew Mulualem Tegegne, **Tarun Kumar Lohani**, Abunu Atlabachew Eshete, Proxy modeling approach to evaluate groundwater recharge potentiality zones in the data scarce area of upper Blue Nile River Basin, Ethiopia, *Environmental Monitoring and Assessment*, (**SCIE, Scopus**), (2023), 195:726, doi: 10.1007/s10661-023-11274-x
91. Asnakew Mulualem Tegegne, **Tarun Kumar Lohani**, Abunu Atlabachew Eshete, Potential risk assessment due to groundwater quality deterioration and quantifying the major influencing factors using geographical detectors in the Gunabay watershed of Ethiopia, *Environmental Monitoring and Assessment*, (**SCIE, Scopus**), (2023) 195:753 <https://doi.org/10.1007/s10661-023-11328-0>

Extra-Curricular Activity

- Participated in XII Senior National Handball Championship in IX Asian Games representing Orissa in September 1982.
- Participated in VIIth Junior National Handball Championship boys & girls representing

representing Orissa during Oct 17^h to 21st 1984.

- Participated in 16th Senior National Handball Championship Men & Women representing Orissa from Oct 10th to 18th 1987.

Teaching and Research Interest:

- Handled the department as Head of the Department, Civil Engineering
- Additional workload of Head, Maintenance
- Developed course curriculum for B.Tech & M.Tech programs of Biju Patnaik University of Technology, India
- Developed courses for P.G. & Ph.D., Arba Minch University, Ethiopia
- In charge of the examination section to conduct examination for more than two thousand students
- Installation of laboratories of geosciences/earth science/environmental science equipment
- In charge of the geosciences/earth science laboratory/environmental engineering lab
- Examination Superintendent of Institute of Civil Engineers (I) to conduct semester examination
- Developed database of students and member of training & placement cell.
- Experience in handling official works and liaison.
- Topper in M. Tech in Environmental Engineering
- Member Academic Advisory Board
- Reviewer of many high indexed peer reviewed journals
- Chairman Transportation Committee
- Trained students to qualify for MBA and M.Tech training programs like GRE, GMAT, and CAT etc.
- University Question setter for BPUT, AMU
- Developed course curriculum for UG, PG & PhD

Fund Generation against Projects

- MODROBS (2005) 200-21/PIN/2001/2002/642/1689: 500,000 INR
- MODROBS (2011) 8024/RIFD/MOD-227/2010-11: 1,150,000 INR
- MODROBS (2013) 9-225/RIFD/MODROB/Policy-1/2013-14: 1,400,000 INR
- ICE (I) (2011-2016): 500,000 INR

Contribution for recognition to the Department/Institution

- Lead the team for accrediting the institute for National Board of Accreditation (NBA)
- Lead the team for accrediting the institute for National Assessment and Accreditation Council (NAAC), NIRF & STTP
- Lead the team to get the labs recognized for Soil Exploration and Testing by Govt. of Odisha
- Register the department to conduct Labs and Project work for ICE (I) students
- Auditor, International Accreditation Organization (IAO), Markham, Ontario, Canada

Conferences

- Organized National Conference on Social and Technological Augmented Research (STAR-2019) at Universal Group of Institutions (India), Convener, 8th & 9th April 2019
- Member Advisory Committee in the International Conference on Emerging Trends and Innovations in Social Sciences, Engineering, Management, Agriculture & Medical Sciences, Universal Group of Institutions (India), 26th April 2019.
- Conference Chair and Keynote Speaker: 4th International Conference on Geoscience and

Remote Sensing Mapping (GRSM 2022), Changchun, China; 7th December 2022

- Conference Chair and Keynote Speaker: 2nd International Conference on Remote Sensing, Surveying and Mapping (RSSM 2023), Changsha, China; 7th January 2023
- 20th International Symposium on Sustainable Water Resources development, 10th-11th June 2022, Arba Minch University, Ethiopia
- 21st International Symposium on Sustainable Water Resources development, 9th-10th June 2023, Arba Minch University, Ethiopia
- Member, Technical Program Committee, 4th International Conference on Civil, Architecture and Disaster Prevention and Control, 24-26 March, 2023, Suzhou, China

Contribution for Lab Development

- Environmental Engineering Lab
- Soil Lab
- Surveying Lab
- Geology Lab

Guiding Students

- Undergraduate Projects: Ninety Nos. Approx.
- Post Graduate Projects: Thirty Nos. Approx.
- PhD Scholars:

Sl. No.	Name of the Ph.D. Scholar	University	University ID No.	Department	Specialization/Field	Thesis Title	Principal Supervisor	Co-Supervisor	Status
1	Abera Shigute Nannawo	Arba Minch University	PRAMIT/365/11	FIWRE	Irrigation and Drainage Engineering	Integrated Analysis on Rainfall-Runoff of Surface Water and Recharge and Storage Change of Groundwater under the effects of Natural and Anthropogenic Stress in Bilate River Basin of Ethiopia	Prof. Tarun Kumar Lohani	Dr. Abunu Atlabachew Eshete	Dissertation Submitted. Yet to defend
2	Asnakew Mulualem Tegegne	Arba Minch University	PRAWTL/065/12	FIWRE	Groundwater Engineering	Spatial prediction of groundwater potentiality and suitability for versatile uses in the Ribb watershed: A cryptic study of lake Tana Sub-Basin, Ethiopia	Prof. Tarun Kumar Lohani	Dr. Abunu Atlabachew Eshete	Continuing
3	Kibrit Gedam Berhanu	Arba Minch University	PRAWTL/070/12	FIWRE	Groundwater Engineering	Spatio-temporal elucidation of groundwater storage variability, recharge and quality in Tana Sub Basin, Ethiopia	Prof. Tarun Kumar Lohani	Dr. Samuel Dagalo Hatiye	Continuing
4	Kindie Zewdie Werede	Arba Minch University	PRAWTL/032/12	FHWRE	Hydraulic Engineering	Understanging Reservoir Operation with respect to change in Hydroclimate, Sediment and Land Cover and Operational Performance Evaluation of Cascaded Reservoir at Upper Omo Gibe Basin, Ethiopia	Prof. Tarun Kumar Lohani	Dr. Getachew Bereta Balli	Continuing
5	Mesfin Reta Aredo	Arba Minch University	PRAWTL/060/13	FHWRE	Hydraulic Engineering	Modelling of Water Balance & Water Resources Assessment Under Water Abstraction & Proposed Developments in the Weyib Watershed of Genale Dawa River Basin, Ethiopia	Prof. Tarun Kumar Lohani	Dr. Abdella Kemal Mohammed	Continuing
6	Damte Tegegne Fetene	Arba Minch University	PRAWTL/059/13	FHWRE	Hydraulic Engineering	Sporadic change in climatic condition and LULC sways on hydrology on selected watershed zones of Upper Blue Nile River	Prof. Tarun Kumar Lohani	Dr. Abdella Kemal Mohammed	Continuing

						Basin, Ethiopia			
7	Muluedil Mohabaw Yigzaw	Arba Minch University	PRAWTI/065/13	FIWRE	Irrigation and Drainage Engineering	Quantitative and Qualitative changes in LULC around Tana-Beles Watershed of Nile River Basin of Ethiopia due to rampant use of Surface Water for Irrigation	Prof. Tarun Kumar Lohani	Dr. Abunu Atlabachew Eshete	Continuing
8	Kassa Tesfaye Erenso	Arba Minch University	PRAWTI/042/14	FHWRE	Hydraulic Engineering	Compulsory Study of Head Work Appurtenant Structures and its impact on Irrigation System: The Case of Omo Kuraz Irrigation Development in Ethiopia	Dr. Abdella Kemal Mohammed	Prof. Tarun Kumar Lohani	Continuing
9	Getu Tibebe Aragaw	Arba Minch University	PRAWTI/041/14	FHWRE	Hydraulic Engineering	Investigation of structural health state, it's susceptibility to potential failure modes and flood modeling under probable dam breach scenario of Koka dam, Awash River Basin, Ethiopia	Dr. Abdella Kemal Mohammed	Prof. Tarun Kumar Lohani	Continuing
10	Mussa Muhaba Mussa	Arba Minch University	PRAWTI/047/14	WRIE	Groundwater Engineering	Mapping of groundwater potential zones in accordance with the impact of LULC change coupled with recharge estimation and flow modelling in Gidabo Watershed, Rift Valley Lakes Basin, Ethiopia	Prof. Tarun Kumar Lohani	Dr. Abunu Atlabachew Eshete	Continuing
11	Ayele Chora Yota	Arba Minch University	PRAWTI/046//14	WRIE	Groundwater Engineering	Modeling and analysis of groundwater potentiality and pollution in Segen Sub Basin Aquifer, Ethiopia	Prof. Tarun Kumar Lohani	Dr. Abunu Atlabachew Eshete	Continuing

Books


- **Book Chapter (SCOPUS):** Lohani, T.K. (2022). Causes, Effects, and Remedial Measures of Climate Change in the East Coast of India with Special Reference to the State of Odisha. In: Islam, M.N., Amstel, A.v. (eds) India II: Climate Change Impacts, Mitigation and Adaptation in Developing Countries. Springer Climate. Springer, Cham. https://doi.org/10.1007/978-3-030-94395-0_16
- **Text Book:** Groundwater Hydrology and Environmental Engineering; East-West Publication House; Australia (Yet to be Published).
- Water Resources Management; In the process.

Projects Presented for Government Funding

- Assessment and Modeling of Groundwater and Wastewater Treatment for a Small Community in Nijigarh Kurki near Orissa Engineering College (Presented in 2013 at DST))
- Assessment and Quality Monitoring of Ground and Waste Waters for Public Consumption in Jatni Block, Khurda District, Odisha (Presented in 2014 at DST).

The details presented are true to the best of my knowledge.

Thanking You.



(Prof (Dr.) T. K. Lohani)