

## BRIEF BIODATA of DR. M. K. VERMA



**Name:** Dr. M. K. Verma, Professor(HAG) & Former VC of CSVTU, Bilai(CG); [Mobile – 09425203472]

**Date of Birth:** 23<sup>rd</sup> March 1962,

**Work Experience:** **Total 40 Years 11 months** (RA-1yr 02 months, Asst. Prof.- 06 yr.02 months, Assoc. Prof.-08 yr., Professor- 25 years 07 months, **VC- 9 year 2 months**).

**Awards & Achievements:** (1) Young Scientist Award 1988 (MPCOST for design improvement of turbine manufactured by BHEL). (2) *Shiksha Ratan Puraskar* 2009 (I I F S New Delhi). (3) Who's Who in Science and Engineering, 2011-2012 (Marquis New Providence, NJ). (4) Tarun Bharat Paryavaran Rakshak Samman, Tarun Bharat Sangh, Rajasthan (5) Engineer of the year 2008 (I E (I)). (6) *Renowned Technical Teacher Recognition* 2009 (I E (I)). (7) Gold medal for best research paper presentation 1987-88 (MACT, Bhopal) (8) Best Paper award 2011 (I E (I)). (9) Best Paper award 2013 (AAIBLS, Raipur). (10) Best Paper & Presentation award 2015 (CBEES, Dubai). (11) Outstanding Faculty Award (Engineering / Civil)', Venus International Foundation Chennai, India (VIFFA), 2015. (12) New Concept of 'Net-Inflow' established. (13) 'Engineer of the Year 2018' award by Practicing Engineers' Association Raipur

**Govt. Scholarships Throughout:** starting from higher secondary school level up to Ph. D.

### [A] Academics Accomplishment:

**Research (Completed + Ongoing):** (1) Ph. D. Supervision (12+ 05=17); (2) M. Tech. /M. Sc. Thesis Guided + evaluated (55+ 11=66); (3) M. Phil. Supervision (03+ 0=03); (4) Research Project (04+ 02=06).

### Research Publications (Total 340 Nos):

(1) International Journal (148); (2) National Journal (43);  
(3) International Seminar / Conferences (55). ); (4) National Seminar / Conferences (94).

**Books authored:** 15 (10 Lambert Publ. Germany, 05 Pragun Publ. New Delhi);

**Manuals/Tutorials authored:** 09

**Books Chapters authored:** 38

**Patent / Copyright:** 03 Awarded, 3 Nos (Applied).

**Foreign University & Institute Systems-Interaction** 13 Nos. : [1]. 18 days in Canada, 2002 (Universities of Ontario, Saskatchewan, Saskatoon, Hamilton); [2]. Two days in Taipei, Taiwan, 2008 (Yang Ming University); [3]. Five days in Mauritius, 2010 (University of Mauritius); [4]. Three days in Hong Kong 2012, Int. Asso. of Engineers; [5] 03 days in Malaysia, 2012 (University of Malaysia); [6] 02 days in Dubai, 2015 (APCBEES); [7] 03 days in Texas A&M University, Texas (USA). [8] 04 days in Rostock University Germany. [9] 03 days in Lalugna University, Germany. [10] 02 days in Aachen University Germany. [11]. 03 days in Beijing University, China. [12] 2 days in Nepal. [13]. 03 days in Singapore.,

**Continuing Education:** Established Continuing Education Cell (CEC); **Conducted 148 Nos. one month Training Programmes.**

**Revenue Generated:** Total more than 12 Crore:

[a]. Continuing Education Cell Rs 50 lakhs; [b]. Consultancy/ Testing Projects: Rs 11.50 Crore (approx.)

**Laboratory Developed:** 4 Nos (Fluid mechanics & Hydraulics, WRE and Bioinformatics)

**Training/Short Term Courses (Total: 179):** Organized: 148 Nos (One month duration each); Attended: 31 Nos

**Conferences/Sem./Workshops (Total: 59):** Organized: 18 Nos, Attended: 41 Nos

**Editor/Joint Editor:** 5 Nos. International Journals; **Reviewer:** 7 Nos. International Journals

**Member of Professional Bodies:** 17 Nos

### [B] Administrative Assignments:

1. **9 years As Vice Chancellor of Chhattisgarh Swami Vivekanand Technical University (CSVТУ), Bilai:**

**[A] Administrative Reforms-** (i). Regularize the semester exams and declaration of result with in the time limit prescribed in academic calendar. (ii). University has introduced the MIS for prompt, efficient and hassle free workings. The work of MIS is expected to complete in December 2017. (iii). Establish the Digital valuation system of answer copy. This type of valuation system is limited to 2/3 Universities in India. (iv). Established unique & very High Power Grievance Committee constituting with Retd.: Judge, Scientist, IAS, Director Technical Education & PSC member. (v) Established a Section-8 Company (CSVТУ FORTE) for start-ups and entrepreneurship. (vi) Introduced New Ordinances & clauses in Statutes, Act & Regulations. Nearly 100 amendments in existing

ordinances had been done. (vii) Introduced SAMARTH portal. (viii) Implemented NEP 2020. (ix) Established a Remote Pilot Training Organisation (RPTO) FOR Drone as per DGCA guidelines. (x) Established A well-equipped STUDIO for recording of MOOC courses. (xi) Contributed 33 MOOC courses through SWAYAM from the affiliated institutes. (xii) Augmented students' social network across the state by increasing NSS units from 17 to 75. (xiii) Established CSDIE: Centre for Skill Development and Informal Education. (xiv) United all Govt. Technical Universities under one umbrella by established a society/trust- ISTU : Indian Society of Technical Universities. (xv). Established a unique conceptual E-library which provides facilities even after graduation for 7 years, when it is needed most to the students for their career making competitive examinations. (xvi) Got registration of CSVTU campus from SAIL, Bhilai, after personal efforts for two years, to remove original non-implementable MoU between Chattisgarh Govt. and SAIL, Bhilai. . (xvi) Established a Video Conferencing Centre in CSVTU, Bhilai.

#### **[B] Development of University New Campus-**

- (i). After construction of Academic building and boundary wall, University has been shifted to new campus on 20<sup>th</sup> June 2016.
- (ii). **Campus Master Plan-** Master plan of the new campus finalized by organizing a competition between the nations renowned architects. The new campus to be constructed in two phases. Drawing, design and estimate of first phase has been completed. Being Civil Engineer I had checked structural design of Academic blocks and Library building. Construction of 4 Academic UTD Buildings have been completed and Library Building is under construction.
- (iii). **Solar Energy Efficient Campus-** Fixed a target to achieve 1MW electricity for whole university through solar power. In the first stage 120KW electricity production through solar energy will be started in September 2017.
- (iv). **Green Campus-** University campus is sprawling in 250 acre. 25000 plants planted. Approx. 4000 plants has been planted with drip irrigation techniques. With the help of Forest dept. 35000 plants planted outside of campus.
- (v) Due to personal efforts a project for campus infrastructure development, Funding from MSME through SIDBI –Rs 157.00 Cr had been approved for Second Phase construction and equipments.

#### **[C] Academic Reforms-**

- (i). **Faculty development plan-** University initiated to provide phase wise training to teachers of affiliated institutes (about 3000 in number) by signing MoU with NITTTR Bhopal under its '**Operation Chanakya**' program.
- (ii). **Increasing the academic status of students (Through video conferencing)** - Establishing a video conferencing centre to teach the remote area students in their weak subjects at basic level. This centre will be properly connected with all Universities and is the only centre in all universities of country.
- (iii). New campus plan completed. Phase 1 construction detailing accomplished.
- (iv). Developing sustainable solar powered campus.
- (v). Office automation by Tata consultancy.
- (vi). Establishment CSDIE: Centre for Skill Development and Informal Education.
- (vii). Started 7 PG courses, 1 PG diploma course, 2 Diploma courses and 3 UG B.Tech. Honors-courses in Computer Engineering AI & DS and Civil Engg. in University premise.
- (viii). Restarted unique PhD entrance exams.
- (ix). Started International Journal: International Journal of Biotechnology, Bioinformatics and Biomedical.
- (x). Established a unique conceptual E-library which provides facilities even after graduation for 7 years, when it is needed most to the students for their career making competitive examinations.
- (xi). 36 MoUs with International Universities and Institutions.
- (xii) Established a Section-8 Company (CSV TU FORTE) for start-ups and entrepreneurship.
- (xiii). Three projects (DST, REC Ltd., STPI) have been taken from State and central Government for Rs. 22 Crore (approx.).
- (xiv) Established Research Centres for all disciplines of University-CSV TU in University Campus.
- (xv) Upgraded the quantity and quality of PhD Research of the CSV TU, Bhilai (more than 300 PhD awarded during my tenure).
- (xvi) 33 SWAYAM courses prepared in the Audio-Visual Studio of CSV TU, Bhilai.

#### **[D] Social Work:**

- (i). *Gram Goad Yojana*-Adaptation of 42 villages for sustainable development. (ii). Forum for solutions of social problems. (iii). Establish Water Resources Cell. (iv) *Swami Vivekanand Yuva Kaushal Setu* for providing informal training in rural area (v) supported 13 rural startups through CSV TU FORTE (section 8 company). (vi) *School Shiksha Mitra Yojana* (vii) *Atma Nirbhar Gaon Yojana* (viii) Drone Pilot certification Yojana.

#### **[E] Financial Management :**

- (i) Funding from MSME through SIDBI –Rs 157.00 Cr for infrastructure and lab development.
- (ii) REC millet program 4.9 Cr
- (iii) Centre of Entrepreneurship (CoE) 14.5 Cr
- (iv) iTBI incubation centre –Rs 4.2Cr.
- (v) Procured high technology UAV (Unmanned Arial Vehicle) for surveying, worth Rs 2.6 crore from market by PPP model.
- (vi) Consultancy worth Rs 3 crore has been done with UAV.

#### **POSTS HELD:**

**[A]. Vice Chancellor** for 9 years of Chattisgarh Swami Vivekanand Technical University, Bhilai (CG).

**[B]. Dean: (1) Dean Academics, (2) Dean Research & Consultancy, (3) Dean Student Welfare,**

**[C]. Head: (1) Head Biomedical Engg, (2) Head Department of Civil Engineering,**

[D]. Chief-Coordinator of 1<sup>st</sup> Convocation at NIT Raipur and Examination Superintendent, Professor In charge Estate Office, NIT Raipur etc.

[E] Chairman:

AICTE Committees: [1] Inspection Committee, [2] Standing Appellate Committee (SAC), [3] Standing Hearing Committee (SHC) [4] Expert Visit Committee, [5] Technical Book Writing and Translation in Regional Languages,

UGC Committees: Chairman of 35 committees of : [6] Peer Team, [7] Expert Committee, [8] Joint Committee [9] Accreditation Committee.

NAAC Committees, [10] Chairman in 3 committees.

NBA Committees, [11] Chairman in 3 committees.

NIT Committees:

[12] Purchase committee, [13] Campus Renovation Committee, [14] UG/PG Admission Committee, [15] House Allotment Committee, [16] Anti Ragging Committee, [17] Disciplinary Committee, [18] Unfair Means Committee and [19] Students Grievances Redressal Committee.

[F] Member of Apex bodies:

[1] Member of BoG, NIT Raipur.

[2] Member of Executive Council, CSVTU, Bilai (C.G.).

[3] STA- National Rural Drinking Water Project (NRDWP), Ministry of Drinking Water and Sanitation, Govt. of India (2 yrs.).

[4] State level Expert Appraisal Committee for Chhattisgarh, Ministry of Environment & Forest, Govt. of India.

[5] Expert in State level Committee for River revival and Rejuvenation in accordance with the guideline of Jal Shakti Ministry, GOI.

[6] Expert in State level Panel of Chattisgarh for Comprehensive Dam Safety Evaluation in accordance with the guideline of Jal Shakti Ministry, GOI.

[G] Coordinator:

[a] STA- National Rural Drinking Water Project (NRDWP), Ministry of Drinking Water and Sanitation, Govt. of India (2 yrs.). [b] Sub-DIC Bioinformatics, DBT, Ministry of S & T, Govt. of India (8 yrs.). [c] Cont. Education Cell from 2002 to 2012 (11 yrs.). [d] PG Courses (8 yrs.). [e] CG Council of Science & Technology (10 yrs.).

[H] Expert Member:

[1] State level Expert Appraisal Committee for Chhattisgarh, Ministry of Environment & Forest, Govt. of India.

[2] STA- Pradhanmantri Gram Sadak Pariyojna (PMGSY), Ministry of Rural Development, Govt. of India (8 yrs.).

[3] Empanelled as Advisor/Expert to UPSC New Delhi and Staff Selection Commission-New Delhi.

[4] Accreditation Committee by NBA-New Delhi;

[5] Expert for recruitment of State PSC (MP & CG); CSVTU; CG State Electricity Board.

[6] Inspection Committee of CG Govt for Technical Institutions,

[7] State Hydrologic Information Coordination Committee;

[8] State level Technical Committee and State Counselling Committee.

[9] Board of Studies various Universities: 3 Nos.

[10] Section Managing Committee of ISTE for MP & CG [2009-2011].

[11] Appellate & Inspection Committee, AICTE, New Delhi.

[12] AICTE Committees: NITT: National Initiative for Technical Teachers Training (Higher Modules), Inspection Committee, Standing Appellate Committee (SAC), Standing Hearing Committee (SHC) and Expert Visit Committee, NCC - TTT.

[13] UGC Committees: Peer Team, Expert Committee, Joint Committee & Accreditation Committee.

[14] NAAC Committees,

[15] NBA Committees.

[I] Other Assignments:

1. Consultant to Chhattisgarh Council of Science and Technology, Chhattisgarh Public Health Engineering Department and Chhattisgarh Pollution Control Board.
2. Major Construction works executed: 3 Nos.
3. Presiding Officer & Counting Observer for numbers of time in State & Central Elections.

## DETAILED BIO-DATA

**Total Publication in Journals (148+43) = 191**

**A. Publication in International Journals = 148**

| S.No | Title of Research Publication                                                                                                                                    | ISSN / ISBN | Year of Publication | DOI                                                                                                       | Publication Level | Flag                     | Impact Factor | Name of Journal                                              |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------|-----------------------------------------------------------------------------------------------------------|-------------------|--------------------------|---------------|--------------------------------------------------------------|
| 1    | Material Innovations, Economic Analysis And Environmental Sustainability Pathways : A Review of Low-Carbon 3d Printing Concrete                                  | 2165-0381   | 2026                | --                                                                                                        | International     | SCI, Scopus              | 3.6           | Journal of Sustainable Cement-Based Materials                |
| 2    | A pan-crop metagenomic exploration of microbial communities linked to pesticide and xenobiotic degradation pathways in agricultural microbiomes                  | 2731-3980   | 2025                | 10.1007/s44279-025-00237-0                                                                                | International     | None                     | -             | Discover Agriculture                                         |
| 3    | Assessment of Dry And Wet Spells For Change In Rainfall Pattern of The Indian Chhattisgarh Watershed Using The Markov Chain Approach                             | 1112-3680   | 2025                | 0.1007/s00024-025-03860-6                                                                                 | International     | Scopus                   | -             | Larhyss Journal                                              |
| 4    | Assessment of performance of conventional and machine learning methods for estimating missing precipitation data                                                 | 1895-7455   | 2025                | 10.1007/s11600-025-01717-z                                                                                | International     | SCI                      | 2.4           | Acta Geophysica                                              |
| 5    | Effect of organic and inorganic fertilizers on crop yield and soil fertility: A comprehensive review                                                             | 2456-7051   | 2025                | 10.1007/s11600-025-01717-z                                                                                | International     | None                     | -             | Journal of Experimental Agriculture International            |
| 6    | Groundwater Quality Assessment for Irrigation in Durg District, Chhattisgarh, India: A Hydro Geochemical and GIS-Based Perspective                               | 2320-0227   | 2025                | 2320-0227                                                                                                 | International     | None                     | -             | Journal of Scientific Research and Reports                   |
| 7    | Spatio-Temporal Analysis of Drought Characteristics and Trend in Mahanadi River Basin Over the Last 121 years (1902–2022)                                        | 1420-9136   | 2025                | 10.1007/s00024-025-03860-6                                                                                | International     | SCI                      | 1.9           | Pure and Applied Geophysics                                  |
| 8    | Assessment of Continuous Growth of Glacial Lakes in the Teesta River Basin Using Semi-Automated Geospatial Approach                                              | 0972-6268   | 2024                | <a href="https://doi.org/10.46488/nept.2024.v23i02.023">https://doi.org/10.46488/nept.2024.v23i02.023</a> | International     | Scopus                   | 2.1           | Nature Environment & Pollution Technology                    |
| 9    | Development of Mobile app for Sickle Cell Anemia Treatment Support System                                                                                        | 0044-0477   | 2024                | -                                                                                                         | International     | Scopus, PubMed / MEDLINE | -             | JMIR Mhealth Uhealth                                         |
| 10   | Disease Management with Android Mobile Applications: A Review                                                                                                    | 2320-2882   | 2024                | -                                                                                                         | International     | None                     | -             | International Journal of Creative Research Thoughts (IJCRT)  |
| 11   | Modification of standard procedure to increase the sustainability of buffer used in haemoglobin solubility test (HST) for screening of sickle cell Anaemia (SCD) | 0974-1313   | 2024                | -                                                                                                         | International     | None                     | -             | MGM Journal of Medical Sciences                              |
| 12   | Prevalence and impact of Liver Dysfunction in Sickle Cell Disease Patients in Chhattisgarh: A Clinical and Epidemiological Study                                 | 2277-8160   | 2024                | 10.36106/gjra                                                                                             | International     | PubMed / MEDLINE         | -             | Global Journal for Research Analysis (GJRA)                  |
| 13   | Respiratory Cancer Database (RCDB): An Open Access Database of Respiratory cancer Gene and miRNA                                                                 | 0973-1482   | 2024                | -                                                                                                         | International     | SCI, Scopus              | 1.2           | Journal of Cancer Research and Therapeutics                  |
| 14   | Sickle cell Anemia and its Treatment in India: A Review                                                                                                          | 1755-0653   | 2024                | -                                                                                                         | International     | Scopus                   | -             | International Journal of Medical Engineering and Informatics |

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|----|----------------------------------------------------------------------------------------------------------------------------|----------------------------|------|-------------------------------------------------------------------------------------------------------------|---------------|--------|------|---------------------------------------------------------------------------------|
| 15 | Network Biology Approach for Identification of Pre-disease Biomarkers from Contaminant-Phenotype Relationship              | 1863-5520                  | 2024 | 10.1007/978-3-031-62898-6_3                                                                                 | International | Scopus | 0.49 | Environmental Science and Engineering                                           |
| 16 | Health effects and bioremediation of pollutants: fluoride, arsenic, lead, and copper                                       | -                          | 2024 | -                                                                                                           | International | None   | -    | Development in wastewater treatment research and processes                      |
| 17 | New era for gene prediction in metagenomic data: Bioinformatics and computational approach                                 | 978-0-443-13609-2          | 2024 | 10.1016/B978-0-443-13609-2.00012-4                                                                          | International | None   | -    | Development in Waste Water Treatment Research and Processes                     |
| 18 | Modified particle swarm optimization for the optimum use of multi-reservoir systems: MRP Complex, Chhattisgarh             | 2663-6859                  | 2023 | 10.3808/jeil.202300111                                                                                      | International | Scopus | 0.64 | Journal of Environmental Informatics Letters                                    |
| 19 | Ecophysiology and Genomics of N-cycling Microbes in the Environment                                                        | -                          | 2023 | -                                                                                                           | International | None   | -    | Ammonia Oxidizing Bacteria Applications in Industrial Wastewater Treatment      |
| 20 | Cell Biology, Biochemistry and Metabolism of Unique Anammox Bacteria                                                       | -                          | 2023 | -                                                                                                           | International | None   | -    | Ammonia Oxidizing Bacteria Applications in Industrial Wastewater Treatment      |
| 21 | Advances in Microbial Treatment of Emerging Contaminants                                                                   | :10.1515/9783111016825-003 | 2023 | 10.1515/9783111016825-003                                                                                   | International | None   | -    | Bioremediation Technologies: For Wastewater and Sustainable Circular Bioeconomy |
| 22 | Impact assessment of wet and dry spells on agriculture productivity of Chhattisgarh, India                                 | 2663-6859                  | 2023 | :10.3808/jeil.202300108                                                                                     | International | Scopus | 0.64 | Journal of Environmental Informatics Letters                                    |
| 23 | Analysis of rainfall trends in India, incorporating non-parametric tests and wavelet synopsis over the last 117 years      | 2663-6859                  | 2023 | 10.3808/jeil.202300117                                                                                      | International | Scopus | 0.64 | Journal of Environmental Informatics Letters                                    |
| 24 | An assessment of ongoing developments in water resources management incorporating SWAT model: Overview and perspectives    | 0972-6268                  | 2022 | <a href="https://doi.org/10.4648/8/NEPT.2022.v21i04.051">https://doi.org/10.4648/8/NEPT.2022.v21i04.051</a> | International | Scopus | 0.7  | Nature Environment and Pollution Technology                                     |
| 25 | Modification in Electrophoresis Instrument and Analysis of Its Efficacy                                                    | 2319-2151                  | 2022 | -                                                                                                           | International | Scopus | -    | Journal of Survey in Fisheries Sciences                                         |
| 26 | Realistic Approach for Determination Groundwater Pollution and Source Accounting                                           | -                          | 2022 | 10.1007/978-981-19-1847-6_4                                                                                 | International | None   | -    | Impact of COVID-19 on Emerging Contaminants                                     |
| 27 | Microbial Response to Lead Exposure                                                                                        | -                          | 2022 | -                                                                                                           | International | None   | -    | Environmental Management Technologies                                           |
| 28 | Metagenomics and metatranscriptomic analysis of wastewater                                                                 | -                          | 2022 | 10.1016/B978-0-323-89775-4.00022-5                                                                          | International | None   | -    | Microbial Community Studies in Industrial Wastewater Treatment                  |
| 29 | Systems biology aided functional analysis of microbes that have rich bioremediation potential for environmental pollutants | -                          | 2022 | -                                                                                                           | International | None   | -    | Microbial Remediation of Azo Dyes with Prokaryotes                              |
| 30 | Hybrid membrane technology: Demand of present wastewater scenario                                                          | -                          | 2021 | 10.1016/B978-0-12-823804-2.00021-5                                                                          | International | None   | -    | Membrane-based Hybrid Processes for Wastewater Treatment                        |



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|----|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------|---------------------------------------------------------------------------------------------------|---------------|----------------------------------|------|-----------------------------------------------------------------------|
| 31 | Advanced Omics Technologies: Relevant to Environment and Microbial Community                                                         | -978-1032162850 [1, 2, 3, 4] | 2021 | #DIV/0!                                                                                           | International | None                             | -    | Wastewater Treatment                                                  |
| 32 | Chromium Genotoxicity Associated with Respiratory                                                                                    | -                            | 2021 | -                                                                                                 | International | None                             | -    | Journal Trace Elements and Their Effects on Human Health and Diseases |
| 33 | Investigation of MicroRNA and transcription factor mediated regulatory network for silicosis using systems biology approach          | 2045-2322                    | 2021 | 10.1038/s41598-020-G93+D93                                                                        | International | None                             | 3.8  | Scientific Reports                                                    |
| 34 | Assessment of Agricultural Drought in Upper Seonath Sub-Basin of Chhattisgarh (India) Using Remote Sensing and GIS-Based Indices     | --                           | 2020 | 10.1007/s12524-020-01124-5                                                                        | International | SCI, Scopus                      | --   | Journal of the Indian Society of Remote Sensing                       |
| 35 | Life cycle assessment modelling for a developing city's water system                                                                 | ---                          | 2020 | 10.1088/1757-899X/814/1/012029                                                                    | International | Scopus                           | --   | InOP Conference Series: Materials Science and Engineering             |
| 36 | Applicability of the analytical hierarchy process (AHP) in decision making for integrated urban water system in a city               | 2277-3878                    | 2019 | 10.35940/ijrte.B1945.078219                                                                       | International | Scopus                           | -    | International Journal of Recent Technology and Engineering            |
| 37 | Chronic fatigue syndrome: identification of transcription factor (TFs) associated with gene expression for drug signature prediction | 2192-6662                    | 2019 | <a href="https://doi.org/10.1007/s13721-019-0203-7">https://doi.org/10.1007/s13721-019-0203-7</a> | International | Scopus                           | 2.4  | Network Modeling Analysis in Health Informatics and Bioinformatics    |
| 38 | Flood Water DO Determination by new DO-Sag Equation                                                                                  | 2321-9939                    | 2019 | -                                                                                                 | International | None                             | -    | International Journal Of Engineering Development And Research         |
| 39 | Rhizosphere metagenomics of Paspalum scrobiculatum L. (Kodo millet) reveals rhizobiome multifunctionalities                          | 2076-2607                    | 2019 | 10.3390/microorganisms7120608                                                                     | International | SCI, Scopus                      | 4.2  | Microorganisms                                                        |
| 40 | Silicosis: A Blow to Human Kind and its Breakthrough                                                                                 | -                            | 2019 | -                                                                                                 | International | None                             | -    | Cardiovascular Surgery                                                |
| 41 | Estimation of Runoff Potential by the application of Curve Number Method in GIS platform                                             | ISSN 2249-8958               | 2019 | 10.35940/ijeat.F9174.088619                                                                       | International | None                             | -    | International Journal of Engineering and Advanced Technology (IJEAT)  |
| 42 | Multi-Reservoir Flood Control Operation by Optimization Technique: A Review                                                          | ISSN 2278-0181               | 2019 | -                                                                                                 | International | Scopus                           | -    | International Journal of Engineering Research & Technology (IJERT)    |
| 43 | Modified DO-Sag Equation to Assess River Water Quality                                                                               | 2278-0181                    | 2019 | -                                                                                                 | International | Google Scholar, PubMed / MEDLINE | -    | International Journal of Engineering Research & Technology            |
| 44 | "Indian Rivers Water Quality Analysis By New DO-Sag Equation "                                                                       | —                            | 2019 | Ref. No. PR-1097                                                                                  | International | Scopus                           | —    | EM International Pollution Research                                   |
| 45 | Flood Water DO Determination by new DO-Sag Equation                                                                                  | 2321-9939                    | 2019 | IJEDR1903138                                                                                      | International | Google Scholar                   | 9.37 | International Journal of Engineering Development and Research         |
| 46 | River Water DO Mechanics & New DO-Sag Equation                                                                                       | 2277-3878                    | 2019 | —                                                                                                 | International | Google Scholar, Scopus           | —    | International Journal of Recent Technology and Engineering (IJRTE)    |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|----------------------------------|---------------|-----------------------|------|--------------------------------------------------------------------|
| 47 | Application of Analytic Hierarchy Process in Water Resources Planning: A GIS Based Approach in the Identification of Suitable Site for Water Storage                                         | 0920-4741 | 2018 | 10.1007/s1269-018-2135-x         | International | SCI, Scopus           | 4.3  | Water Resources Management                                         |
| 48 | Bacterial diversity in rhizosphere of <i>Paspalum scrobiculatum</i> L. (Kodo millet) is revealed with shotgun metagenome sequencing and data analysis                                        | 2352-3409 | 2018 | 10.1016/j.dib.2018.08.037        | International | SCI, Scopus           | 1.4  | Data in Brief                                                      |
| 49 | Hypsometric analysis of Sheonath River Basin, Chhattisgarh, India: a remote sensing and GIS approach                                                                                         | 2278-0181 | 2018 | -                                | International | None                  | -    | Int J Eng Res Technol                                              |
| 50 | Metatranscriptome analysis deciphers multifunctional genes and enzymes linked with the degradation of aromatic compounds and pesticides in the wheat rhizosphere                             | 1664-302X | 2018 | 10.3389/fmicb.2018.01331         | International | SCI, Scopus           | 4.5  | Frontiers in Microbiology                                          |
| 51 | Modeling Application of Analytic Hierarchy Process Basin, Chhattisgarh                                                                                                                       | 0971-765X | 2018 | -                                | International | Scopus                | -    | Ecology, Environment and Conservation                              |
| 52 | Multi criteria decision analysis (MCDA) framework for the integrated urban water system                                                                                                      | 2352-3409 | 2018 | -                                | International | Scopus                | -    | International Journal of Engineering & Technology                  |
| 53 | Modeling Groundwater Flow in Upper Seonath Basin, Chhattisgarh                                                                                                                               | -         | 2018 | -                                | International | Scopus                | 0.33 | Ecology, Environment and Conservation                              |
| 54 | Application of Analytic Hierarchy Process in Water Resources Planning: A GIS Based Approach in the Identification of Suitable Site for Water Storage                                         | 1573-1650 | 2018 | 10.1007/s1269-018-2135-x         | International | SCI, Scopus           | 5.7  | Water Resources Management                                         |
| 55 | A Study of Climate Change Impact on Precipitation of Sheonath River Basin                                                                                                                    | 0974-5645 | 2017 | 10.17485/ijst/2017/v10i11/104361 | International | Scopus                | --   | Indian Journal of Science and Technology                           |
| 56 | A study on Calibration of a Hydrological Model and Sensitivity analysis of its parameters: A case study of a Seonath River Basin, Chhattisgarh, India                                        | 0011-3891 | 2017 | -                                | International | SCI, Scopus           | 1.1  | Current Science Journal                                            |
| 57 | GICDB: an oncogenomic database of gastrointestinal cancer                                                                                                                                    | 0011-3891 | 2017 | -                                | International | SCI                   | -    | Current Science                                                    |
| 58 | GIS based analytic hierarchy process in determination of suitable site for water storage                                                                                                     | 1790-3025 | 2017 | -                                | International | Scopus                | -    | European Water                                                     |
| 59 | Identification of potential transcription factor and protein kinases for regulation of differentially expressed genes for fluoride exposure in human using Expression2Kinases (X2K) approach | 2192-6670 | 2017 | 10.1007/s13721-017-0148-7        | International | Scopus                | -    | Network Modeling Analysis in Health Informatics and Bioinformatics |
| 60 | Optimization of canal irrigation scheduling for Kharif crops in Mahanadi command area, Chhattisgarh                                                                                          | 0022-457X | 2017 | -                                | International | None                  | 3-   | Journal of Soil and Water Conservation                             |
| 61 | Performance measures for Ravi Shankar Sagar reservoir using simulation-optimization models                                                                                                   | 1792-748X | 2017 | -                                | International | None                  | -    | Water Utility Journal                                              |
| 62 | Respiratory cancer database: An open access database of respiratory cancer gene and miRNA                                                                                                    | 0973-1482 | 2017 | 10.4103/0973-1482.168978         | International | SCI, PubMed / MEDLINE | 1.4  | Journal of Cancer Research and Therapeutics                        |

|    |                                                                                                                                                                               |                |      |                           |               |             |    |                                                                             |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------|---------------------------|---------------|-------------|----|-----------------------------------------------------------------------------|
| 63 | Identification of potential transcription factor and protein kinases for regulation of differentially expressed genes for fluoride exposure in human using Expression2Kinases | -              | 2017 | 10.1007/s13721-017-0148-7 | International | None        | -  | Network Modeling Analysis in Health Informatics and Bioinformatics          |
| 64 | Estimation of direct runoff in multireservoir system MRP complex for critical flood data using SCS Curve Number method                                                        | ISSN 2250-0138 | 2017 | -                         | International | None        | -  | Indian Journal of Scientific Research (IJSR)                                |
| 65 | Soil erosion modeling using RUSLE and GIS on Dudhawa catchment                                                                                                                | 0973-6077      | 2017 | -                         | International | Scopus      | -  | International Journal of Applied Environmental Science                      |
| 66 | GIS based analytic hierarchy process in determination of suitable site for water storage                                                                                      | --             | 2017 | --                        | International | None        | -- | EUROPIAN WATER SPECIAL ISSUE                                                |
| 67 | Intelligent system for diagnosis of asthma severity using ANN                                                                                                                 | 2455-5592      | 2016 | --                        | International | None        | -- | CSVТУ International Journal of Biotechnology, Bioinformatics and Biomedical |
| 68 | Application of GIS and MODFLOW to ground water hydrology—a review                                                                                                             | 2248-9622      | 2016 | -                         | International | None        | -  | International Journal of Engineering Research and Applications              |
| 69 | Assessment and comparison of water quality index for Raipur, Bilaspur and Raigarh city, Chhattisgarh (India)                                                                  | 1462-9011      | 2016 | -                         | International | None        | -  | Environmental Science & Policy                                              |
| 70 | Calibration and Sensitivity analysis of a Hydrological Model for Seonath River Basin, Chhattisgarh, India                                                                     | 0973-4562      | 2016 | -                         | International | Scopus      | -  | International Journal of Applied Engineering Research (IJAER)               |
| 71 | Drought Analysis in the Seonath River Basin Using Reconnaissance Drought Index and Standardised Precipitation Index (Detailed Record)                                         | 0976-6308      | 2016 | -                         | International | Scopus      | -  | International Journal of Civil Engineering & Technology (IJCET)             |
| 72 | Next generation software tool for sustainable urban water modelling: Aquacycle                                                                                                | 0974-5572      | 2016 | -                         | International | Scopus      | -  | International Journal of Control Theory and Applications                    |
| 73 | Site suitability mapping for water storage structures using remote sensing & GIS for Sheonath basin in Chhattisgarh state                                                     | 0973-4562      | 2016 | -                         | International | SCI, Scopus | -  | International Journal of Applied Engineering Research                       |
| 74 | Statistical Analysis of Precipitation over Seonath River Basin, Chhattisgarh, India                                                                                           | 0973-4562      | 2016 | -                         | International | Scopus      | -  | International Journal of Applied Engineering Research                       |
| 75 | Surface Runoff Estimation using Remote Sensing & GIS based Curve number Method                                                                                                | 2349-6495      | 2016 | -                         | International | None        | -  | International Journal of Advanced Engineering Research and Sciences (IAERS) |
| 76 | Asthma Diagnosis Indispensable Tool based on Support Vector Machines                                                                                                          | -              | 2016 | -                         | International | None        | -  | CSVТУ International Journal of Biotechnology, Bioinformatics and Biomedical |
| 77 | Molecular modeling and simulation analysis of glaucoma pathway                                                                                                                | -8854          | 2016 | 10.1007/s13721-016-0136-3 | International | None        | -  | Netw Model Anal Health Inform Bioinforma                                    |
| 78 | Computation of air quality index for major cities of Chhattisgarh state                                                                                                       | 1040-6026      | 2016 | -                         | International | None        | -  | Environmental Claims Journal                                                |



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|----|-----------------------------------------------------------------------------------|-----------|------|----|---------------|--------|----|-----------------------------------------------------------------------|
| 79 | Analysis of Change in Annual Rainfall for Raipur District, Chhattisgarh           | 2278-0181 | 2015 | -  | International | None   | -  | International Journal of Engineering Research & Technology            |
| 80 | Application RS and GIS in estimation of sub basin runoff potential using HEC-HMS  | 0973-4562 | 2015 | -  | International | None   | -  | International Journal of Applied Engineering Research                 |
| 81 | Application of MODFLOW in Water Resource Management                               | 2349-2902 | 2015 | -  | International | None   | -  | Journal of Water Resource Engineering and Management                  |
| 82 | Assessing ground water quality using GIS                                          | 2278-0181 | 2015 | -  | International | None   | -  | International Journal of Engineering Research & Technology            |
| 83 | Estimation of Soil Erosion Using GIS and USLE Model                               | 1911-0006 | 2015 | -  | International | None   | -  | Canadian Journal of Remote Sensing                                    |
| 84 | Optimization of process parameters of plastic extrusion in pipe manufacturing     | 2250-0758 | 2015 | -  | International | None   | -  | International Journal of Engineering and Management Research (IJEMR)  |
| 85 | Prediction of Runoff and Sediment Yield of Chhokranala Watershed Using SWAT Model | 0378-3774 | 2015 | -  | International | None   | -  | Agricultural Water Management                                         |
| 86 | Statistical Trends Analysis of Monthly Rainfall for Raipur District, Chhattisgarh | 2349-6495 | 2015 | -  | International | None   | -  | International Journal of Advance Engineering Research and Studies     |
| 87 | Application of RS & GIS in estimation of sub-basin runoff potential using HEC-HMS | 0973-9769 | 2015 | -- | International | Scopus | -- | International Journal of Applied Engineering Research                 |
| 88 | Application of RS & GIS in estimation of sub-basin runoff potential using HEC-HMS | 0973-9769 | 2015 | -- | International | Scopus | -- | International Journal of Applied Engineering Research                 |
| 89 | An Approach for Environmental Modeling of Invasive Genus Acacia                   | 2278-7844 | 2014 | -  | International | None   | -  | International Journal of Advanced and Innovative Research             |
| 90 | Application of Remote Sensing & GIS in Flood Plain Mapping                        | 2278-7844 | 2014 | -  | International | None   | -  | International Journal of Advanced and Innovative Research             |
| 91 | Application of Remote Sensing and GIS in Groundwater Prospect Mapping             | 2278-0181 | 2014 | -  | International | None   | -  | International Journal of Engineering Research & Technology (IJERT)    |
| 92 | Design and Development of a System of Ground Water Recharging                     | 1735-0522 | 2014 | -  | International | None   | -  | International Journal of Civil Engineering                            |
| 93 | Drought Hazard Assessment and Mapping in Upper Seonath Sub-Basin using GIS        | 2250-2459 | 2014 | -  | International | None   | -  | International Journal of Emerging Technology and Advanced Engineering |
| 94 | GIS base practical solution for flood control at Taga village for PGCL India      | 0315-1468 | 2014 | -  | International | None   | -  | Canadian Journal of Civil Engineering                                 |
| 95 | Impact of Climate Variability over Mahanadi River Basin                           | 2278-7844 | 2014 | -  | International | None   | -  | International Journal of Advanced and Innovative Research             |
| 96 | Importance of desilting basins in run-of-river hydro projects in Himalayan region | 2250-2459 | 2014 | -  | International | None   | -  | International Journal of Emerging Technology and Advanced Engineering |

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|-----|-------------------------------------------------------------------------------------------------|----------------|------|-------------------------------------|---------------|------|----|-----------------------------------------------------------------------------------------|
| 97  | Optimization of Canal Operation by Dynamic Programming                                          | 2305-8269      | 2014 | -                                   | International | None | -  | International Journal of Engineering Science                                            |
| 98  | Urban Drainage Planning to Mitigate Flood Situation of Raipur City in Chhattisgarh State        | 0043-1397      | 2014 | -                                   | International | None | -  | Water Resources Research                                                                |
| 99  | Role of Remote Sensing and GIS in Environmental Protection                                      | ISSN 2278-7844 | 2014 | -                                   | International | None | -  | International Journal of Advanced and Innovative Research                               |
| 100 | Application of Remote Sensing & GIS in Flood Plain Mapping", Paras Conference Proceedings       | 2278-7844      | 2014 | --                                  | International | None | -- | International Journal of Advanced and Innovative Research                               |
| 101 | Role of Remote Sensing & GIS in the Environmental Protection                                    | 2278-7844      | 2014 | --                                  | International | None | -- | International Journal of Advanced and Innovative Research                               |
| 102 | Impact of Climate Variability over Mahanadi River Basin", Paras Conference Proceedings          | . 2278-7844    | 2014 | --                                  | International | None | -- | International Journal of Advanced and Innovative Research                               |
| 103 | Application of GIS for Estimation of Water Potential of a Basin                                 | 1923-6670      | 2013 | -                                   | International | None | -  | International Journal of Sustainable Water and Environment System                       |
| 104 | Application of GIS for Integrated Water Resource Planning of Beda River Basin                   | 1747-6585      | 2013 | -                                   | International | None | -  | Water and Environment Journal                                                           |
| 105 | Artificial Neural Network approach to Evaporation Modeling                                      | ISSN: 022-457X | 2013 | -                                   | International | None | -  | Journal of Soil & Water Conservation                                                    |
| 106 | Assessment of Hydro power Potential of Mahanadi Reservoir Project Complex and Design of Turbine | 2248-9622      | 2013 | -                                   | International | None | -  | International Journal of Engineering Research and Application                           |
| 107 | Estimation of Excess Water for Groundwater Recharging from Ravishankar Sagar Reservoir Basin    | 0315-1468      | 2013 | -                                   | International | None | -  | Canadian Journal of Civil Engineering                                                   |
| 108 | Operation of Reservoirs of MRP Complex using MIKE Basin                                         | 0920-4741      | 2013 | -                                   | International | None | -  | Water Resources Management                                                              |
| 109 | Optimization of Operation Policy for Kodar Reservoir Project                                    | 2248-9622      | 2013 | -                                   | International | None | -  | International Journal of Engineering Research and Application                           |
| 110 | Phytotherapy in the treatment of arthritis: a review                                            | 0975-8232      | 2013 | -                                   | International | None | -  | International Journal of Pharmaceutical Sciences and Research                           |
| 111 | Social sustainable rural housing in India: An urgent need                                       | 2325-1115      | 2013 | 10.18848/2325-1115/CGP/v08i03/59458 | International | None | -  | International Journal of Social Sustainability in Economic, Social and Cultural Context |
| 112 | Planning for Optimum Use of Water Resources of MRP Complex Using MIKE BASIN                     | --             | 2013 | --                                  | International | None | -- | Journal of Indian Water Resources Society                                               |
| 113 | Monthly Rainfall-Runoff Modeling for Sondur Reservoir                                           | 1028-6284      | 2012 | -                                   | International | None | -  | Iranian Journal of Science and Technology                                               |
| 114 | Safety check of existing dam against altered seismic hazard conditions                          | 0976-4399      | 2012 | -                                   | International | None | -  | International Journal of Civil and Structural Engineering                               |
| 115 | Application of ANN for Rainfall-Inflow Modeling for Dudhawa Reservoir                           | --             | 2012 | --                                  | International | None | -- | CSVТУ Research Journal                                                                  |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------|----|---------------|------|----|------------------------------------------------------------------------------------------------|
| 116 | Integrated water resources projects planning using GIS                                                                                                                   | -              | 2012 | -  | International | None | -  | IEEE International Conference on Advances in Engineering, Science and Management (ICAESM 2012) |
| 117 | Application of Fuzzy Logic Based Inflow Forecasting Model For Murumsilli Reservoir                                                                                       | --             | 2011 | -- | International | None | -- | Journal of Applied Hydrology                                                                   |
| 118 | Hydrological Modelling of Chhokranala Watershed Using Weather Generator in the SWAT Model                                                                                | --             | 2011 | -- | International | None | -- | Indian Journal of Soil Conservation                                                            |
| 119 | Modification of formulation for Rainfall Analysis for Mahanadi Reservoir Project Complex                                                                                 | --             | 2011 | -- | International | None | -- | CSVТУ Research Journal                                                                         |
| 120 | Development of Effective Management Plan for Critical Areas of Chhokranala Watershed using SWAT model and GIS                                                            | --             | 2010 | -- | International | None | -- | Journal of Indian Water Resources Society                                                      |
| 121 | In silico 3D Modeling of Acid Sensing Ion Channel (AISC) of Rattus Norvegicus                                                                                            | --             | 2010 | -- | International | None | -- | CSVТУ Research Journal                                                                         |
| 122 | Comparative Studies of 3D Structure of Enolase [Bos Taurus]                                                                                                              | --             | 2010 | -- | International | None | -- | CSVТУ Research Journal                                                                         |
| 123 | Seismic Hazard Analysis for Capital City of Chhattisgarh State                                                                                                           | --             | 2010 | -- | International | None | -- | CSVТУ Research Journal                                                                         |
| 124 | In silico 3D Structure Prediction of Cell Membrane Associated Protein Ninjurin (Homo sapiens)                                                                            | -2819          | 2010 | -  | International | None | -  | Current Research Journal of Biological Sciences                                                |
| 125 | Construction of 3d Model for Cyclobutane Pyrimidine (CPD) Photolyase from Chlorella Pyrenoidosa                                                                          | -              | 2010 | -  | International | None | -  | International Journal of Engineering Science and Technology                                    |
| 126 | Homology modeling and binding site identification of 1 deoxy d-xylulose 5 phosphate reductoisomerase of Plasmodium falciparum: new drug target for Plasmodium falciparum | -              | 2010 | -  | International | None | -  | Int J of Eng Sci and Tech                                                                      |
| 127 | In silico Characterization of alpha-helix Geometry of Transmembrane Proteins and its Comparison with Globular Proteins                                                   | --             | 2009 | -- | International | None | -- | CSVТУ Research Journal                                                                         |
| 128 | Study on Sorption of Copper on a Vertisol Soil: Part-II                                                                                                                  | --             | 2009 | -- | International | None | -- | CSVТУ Research Journal                                                                         |
| 129 | Calibration and Validation of the Swat Model For Small Agricultural Watershed Using Satellite Data And GIS                                                               | --             | 2009 | -- | International | None | -- | CSVТУ Research Journal                                                                         |
| 130 | Plastic Zone Propagation in Thick Plates Using Higher-Order Shear Deformation Theory                                                                                     | --             | 2009 | -- | International | None | -- | CSVТУ Research Journal                                                                         |
| 131 | Fuzzy Logic Approach in Developing Rainfall-Inflow for Dudhawa Reservoir of MRP Complex                                                                                  | --             | 2009 | -- | International | None | -- | Journal of Indian Water Works Association                                                      |
| 132 | Application of Fuzzy Logic in Rainfall-Runoff Modeling for Ravishankar Sagar Reservoir                                                                                   | ISSN 0974-8725 | 2009 | -- | International | None | -- | CSVТУ Research Journal                                                                         |
| 133 | Identification and Prioritization of Critical Sub-Watersheds through GIS and SWAT Model                                                                                  | --             | 2009 | -- | International | None | -- | CSVТУ Research Journal                                                                         |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------|-----------|------|----------------------|---------------|--------|----|-----------------------------------------------------------|
| 134 | Study on Sorption of Copper on a Vertisol Soil: Part-I                                                                                  | --        | 2009 | --                   | International | None   | -- | CSVТУ Research Journal                                    |
| 135 | Finite Element Elasto-Plastic Analysis of Plate Bending Using Layered Higher Order Shear deformation Theory                             | 0974-6528 | 2009 | --                   | International | None   | -- | ICFAI University Journal of Structural Engineering        |
| 136 | Effective management of critical sub-watersheds using SWAT Model, Remote Sensing and GIS                                                | 2230-7265 | 2009 | --                   | International | None   | -- | Agricultural Engineering Today                            |
| 137 | Homology Modelling of Hypoxanthin-Guanine phosphoribosyl transferase, Enzyme Involved in Salvage Pathway of Purine Metabolism           | -         | 2009 | 10.4172/cs b.1000039 | International | None   | -  | J Comput Sci Syst Biol                                    |
| 138 | Identification of insilico 3D structure of amylase(Drosophila melanogaster) and comparative computational studies                       | -         | 2009 | -                    | International | None   | -  | Journal of Engineering and Technology Research            |
| 139 | Phylogenetic Analysis of Enterococcus, Lactobacillus and Streptococcus Strains on the Basis of abp (Atp Binding Protein) Gene Sequences | 2041-0778 | 2009 | -                    | International | Scopus | -  | Current Research Journal of Biological Sciences           |
| 140 | Study on Sorption of Copper on a Vertisol Soil Part-I                                                                                   | --        | 2009 | --                   | International | None   | -- | CSVТУ Research Journal                                    |
| 141 | Study on Sorption of Copper on a Vertisol Soil Part-II                                                                                  | --        | 2009 | --                   | International | None   | -- | CSVТУ Research Journal                                    |
| 142 | Rainfall-Net Inflow Modeling For Dudhawa Reservoir                                                                                      | --        | 2008 | --                   | International | None   | -- | CSVТУ Research Journal                                    |
| 143 | Assessment of Seismic Hazard at Tandula Dam and Balar Dam using DSHA                                                                    | --        | 2008 | --                   | International | None   | -- | Journal of Structural Engineering, SERC                   |
| 144 | Deterministic Seismic Hazard Analysis for Hasdeo-Bango Dam Site in Chhattisgarh State                                                   | --        | 2008 | --                   | International | None   | -- | CSVТУ Research Journal                                    |
| 145 | Conceptualization of Sustainable Water Resources Infrastructure And It's Development For Chhattisgarh State                             | --        | 2008 | --                   | International | None   | -- | CSVТУ Research Journal                                    |
| 146 | A Multivariate Auto-Regressive Forecasting Model: An Application to Mahanadi Reservoir Project Complex                                  | --        | 2003 | --                   | International | None   | -- | Journal of Indian Water Works Association (IWWA)          |
| 147 | Net-Inflow Forecasting an Application to Mahanadi Reservoir Project Complex                                                             | --        | 2002 | --                   | International | None   | -- | Hydrology Journal                                         |
| 148 | Drought analysis in the seonath river basin using reconnaissance drought index and standardised precipitation index                     |           | 2016 |                      | International |        |    | International Journal of Civil Engineering and Technology |

## B. Publication in National Journals = 43

| S.No | Title of Research Publication                                                                          | ISSN / ISBN | Year of Publication | DOI                        | Publication Level | Flag   | Impact Factor | Name of Journal                     |
|------|--------------------------------------------------------------------------------------------------------|-------------|---------------------|----------------------------|-------------------|--------|---------------|-------------------------------------|
| 1    | Investigation of Spatiotemporal Changes of Drought Trend in Indian River Basin System Over the Century | 1434-4483   | 2025                | 10.1007/s00704-024-05328-5 | National          | SCI    | 2.8           | Theoretical and Applied Climatology |
| 2    | Correlating Precipitation Dynamics with Land-use Land-cover Change over Mahanadi River Basin in India  | 0974262X    | 2025                | 10.25303/187da014025       | National          | Scopus | na            | Disaster Advances                   |

|    |                                                                                                                                         |                               |      |                                 |          |        |     |                                                                             |
|----|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------|---------------------------------|----------|--------|-----|-----------------------------------------------------------------------------|
| 3  | Introducing Normalized Surface-adjusted Precipitation Index (NSPI) for Regional Drought Assessment                                      | 1879-1026                     | 2025 | 10.1016/j.scitotenv.2025.180322 | National | SCI    | 8   | Science of the Total Environment                                            |
| 4  | Spatio-temporal Analysis of Drought Characteristics and Trend in Mahanadi River Basin Over the Last 121 years (1902–2022)               | 1420-9136                     | 2025 | 10.1007/s00024-025-03860-6      | National | SCI    | 1.9 | Pure and Applied Geophysics                                                 |
| 5  | 3. Chronic fatigue syndrome: identification of transcription factor (TFs) associated with gene expression for drug signature prediction | 2192-6662 (Print) / 2192-6670 | 2021 | 10.1007/s13721-019-0203-7       | National | Scopus | 2.4 | Network Modeling Analysis in Health Informatics and Bioinformatics          |
| 6  | Validation of Standardized Precipitation Index (SPI) for meteorological drought risk in central India                                   | 097426 2X                     | 2018 | 10.5281/z.enodo.4670999         | National | Scopus | NA  | Disaster Advances                                                           |
| 7  | Modelling Groundwater Flow in Upper Seonath Basin, Chhattisgarh                                                                         | 0971-765X                     | 2018 | 10.5281/z.enodo.17071132        | National | Scopus | na  | Ecology, Environment and Conservation                                       |
| 8  | Assessment of groundwater vulnerability using modified DRASTIC model in Kharun Basin, Chhattisgarh, India                               | 1866-7538                     | 2016 | 10.1007/s12517-015-2180-2       | National | SCI    | 1.2 | Arabian Journal of Geosciences                                              |
| 9  | Biopesticides: An Introduction and their mode of action                                                                                 | 2455-5592                     | 2016 | --                              | National | None   | --  | CSVТУ International Journal of Biotechnology, Bioinformatics and Biomedical |
| 10 | Application of USLE Model & GIS in Estimation of Soil Erosion for Tandula Reservoir                                                     | 2250-2459                     | 2013 | na                              | National | Scopus | na  | International Journal of Emerging Technology and Advanced Engineering       |
| 11 | Application of fuzzy logic in biomedical informatics                                                                                    | 2079-8407                     | 2013 | na                              | National | None   | na  | Journal of Emerging Trends in Computing and Information Sciences            |
| 12 | Dynamic analysis of Hirakud Dam due to seismic forces                                                                                   | 2249-4596                     | 2013 | na                              | National | None   | na  | Global Journal of Researches In Engineering                                 |
| 13 | Optimization modelling for crop planning of hasdeo bango command                                                                        | 0974-3154                     | 2012 | na                              | National | Scopus | na  | International Journal of Engineering Research and Technology                |
| 14 | SCS curve number method in Narmada basin                                                                                                | 0976-4380                     | 2012 | na                              | National | None   | na  | International Journal of Geomatics and Geosciences                          |
| 15 | Safety analysis of Rupsiabagar-Khasiabara Dam under seismic condition, using CADAM                                                      | 2250-3153                     | 2012 | na                              | National | None   | na  | International Journal Scientific Research Publications                      |
| 16 | Application of Arc Gis For Estimation of Basin Potential (A Case Study-Kharun River Basin)                                              | 2278-0181                     | 2012 | 10.17577/IJERTV11S9420          | National | None   | --  | International Journal of Engineering Research & Technology (IJERT)          |
| 17 | Development and Application Preemptive Goal Programming for Optimal Operation Mahanadi Reservoir Project Complex                        | 0733-9496                     | 2012 | --                              | National | None   | --  | Journal of Water Resources Planning and Management                          |
| 18 | Single wall carbon nanotubes block ion passage in mechano-sensitive ion channels by interacting with extracellular domain               | 1550-7041                     | 2011 | 10.1166/jb n.2011.1260          | National | SCI    | --  | Journal of Biomedical Nanotechnology                                        |



|    |                                                                                                                                          |           |      |                                                                                                   |          |                                   |     |                                                         |
|----|------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|---------------------------------------------------------------------------------------------------|----------|-----------------------------------|-----|---------------------------------------------------------|
| 19 | Hydrological modelling of chhokranala watershed using weather generator with SWAT model                                                  | 0970-3349 | 2011 | --                                                                                                | National | Scopus                            | --  | Indian Journal of Soil Conservation                     |
| 20 | Evaluation of min-max, weighted and preemptive goal programming techniques with reference to Mahanadi Reservoir Project Complex          | 0920-4741 | 2010 | <a href="https://doi.org/10.1007/s11269-009-9447-9">https://doi.org/10.1007/s11269-009-9447-9</a> | National | SCI, Scopus, Web of Science (WoS) | 5.7 | Water resources management                              |
| 21 | Comparative Analysis of the Migraine Pathway in Human and C. elegans                                                                     | 2041-0778 | 2010 | --                                                                                                | National | None                              | --  | Current Research Journal of Biological Sciences         |
| 22 | Comparison of structural geometry of $\alpha$ -helices from transmembrane and globular proteins                                          | 0973-8363 | 2010 | --                                                                                                | National | Scopus                            | --  | International Journal of Integrative Biology            |
| 23 | In Silico 3d Structure Prediction and Comparison of Nucleocapsid Protein of H1N1                                                         | 1737-9377 | 2010 | --                                                                                                | National | Scopus                            | --  | Journal of Modelling & Simulation of Systems            |
| 24 | Rainfall-Inflow Simulation using ANN                                                                                                     | 0974-3154 | 2010 | --                                                                                                | National | None                              | -   | International Journal of Engineering                    |
| 25 | Development of effective management plan for critical areas of small watersheds using SWAT model and GIS                                 | -         | 2010 | --                                                                                                | National | None                              | --  | Journal of Indian Water Resources Society               |
| 26 | Homology Modelling of Hypoxanthin-Guanine phosphoribosyltransferase, Enzyme Involved in Salvage Pathway of Pu-rine Metabolism            | 0974-7230 | 2009 | 10.4172/jc.sb.1000039                                                                             | National | None                              | na  | Journal of Computer Science & Systems Biology           |
| 27 | Identification of insilico 3D structure of amylase (Drosophila melanogaster) and comparative computational studies                       | 2006-9790 | 2009 | <a href="https://doi.org/10.5897/JETR.9000043">https://doi.org/10.5897/JETR.9000043</a>           | National | None                              | -   | Journal of Engineering and Technology Research          |
| 28 | Evaluation of Min-Max, Weighted and Preemptive Goal Programming Models with reference to Mahanadi Reservoir Project                      | 0920-4741 | 2009 | 10.1007/s11269-009-9447-9                                                                         | National | SCI, Scopus, Web of Science (WoS) | 4.3 | Water Resources Management                              |
| 29 | Homology Modeling of Hypoxanthin-Guanine Phosphoribosyltransferase Enzyme Involved in Salvage Pathway of Purine Metabolism               | 0974-7222 | 2009 | 10.4172/jc.sb.1000039                                                                             | National | Scopus                            | --  | Journal of Computer Science and System Biology          |
| 30 | Identification of In-silico 3D Structure of Amylase [Drosophila melanogaster] and Comparative Computational Studies                      | 2006-9790 | 2009 | --                                                                                                | National | Scopus                            | --  | Journal of Engineering and Technology Research          |
| 31 | Phylogenetic Analysis of Enterococcus, Lactobacillus, and Streptococcus Strains on the Basis of abc (ATP binding protein) Gene Sequences | 2040-8765 | 2009 | --                                                                                                | National | Google Scholar                    | --  | Current Research Journal of Biological Sciences         |
| 32 | Seismic Hazard Analysis for Major Dams of Chhattisgarh                                                                                   | 0974-5904 | 2009 | --                                                                                                | National | Scopus                            | --  | International Journal of Earth Sciences & Engineering   |
| 33 | Seismic hazard analysis for major dams of Chhattisgarh, India                                                                            | --        | 2009 | --                                                                                                | National | None                              | --  | Int J Earth Sci Eng                                     |
| 34 | Structure Identification of Gp41 [HIV-1] Protein and Computational Analysis of its Binding Sites                                         | 0973-385X | 2009 | --                                                                                                | National | None                              | --  | Journal of Computational Intelligence in Bioinformatics |
| 35 | Fuzzy Logic Approach in Developing Rainfall-Runoff Model for Dudhawa Reservoir                                                           | 0970-275X | 2009 | --                                                                                                | National | Scopus                            | --  | Journal of Indian Water Works Association               |

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|----|--------------------------------------------------------------------------------------------|------------|------|-------------------------------------------------------------------------------------------------------------|----------|------|-----|--------------------------------------------------------|
| 36 | In-Silico Structure of Protein ADENOSINE DEAMINASE, Organism: Bos Taurus, PMDBID-PM0075230 | Repository | 2008 | PMDBID-PM0075230                                                                                            | National | None | --  | La Sapienza Protein Model Database, University of Rome |
| 37 | In-Silico Structure of Protein Enolase enzyme, Organism: Bos Taurus, PMDBID-PM0075394      | Repository | 2008 | PMDBID-PM0075394                                                                                            | National | None | --  | La Sapienza Protein Model Database, University of Rome |
| 38 | Monthly Net-inflow Forecasting using Multivariate Auto-Regressive Moving Average Model     | 0970-275X  | 2001 | <a href="http://www.a.info/journal-archives?vol-id=MTMx">http://www.a.info/journal-archives?vol-id=MTMx</a> | National | None | --  | Journal of Indian Water Works Association              |
| 39 | Min-Max Goal Programming: An Application to Mahanadi Reservoir Project Complex             | 0315-1468  | 2001 | 10.1139/I01-026                                                                                             | National | SCI  | 1.5 | Canadian Journal of Civil Engineering                  |
| 40 | Optimal Operation of Multiple Reservoir Systems by Weighted Goal Programming               | --         | 2000 | --                                                                                                          | National | None | --  | Journal of Indian Water Resources Society              |
| 41 | Rainfall-Net-Inflow Modeling for Mahanadi Reservoir Project Complex                        | --         | 2000 | --                                                                                                          | National | None | --  | Journal of IWRS                                        |
| 42 | Design and Development of Turbines for Mini-Micro Hydel Schemes and Model Testing          | --         | 1987 | --                                                                                                          | National | None | --  | Journal of M.A.C.T.                                    |
| 43 | Design Modification and Improvement in the Performance of the Cross Flow Turbine           | --         | 1987 | --                                                                                                          | National | None | --  | Journal of M.A.C.T.                                    |

## **Total Publication in International/ National Conferences (55+94) = 149**

### **A. Total Publication in International Conferences = 55**

| S.No | Title of paper                                                                                                       | ISSN / ISBN | Year | DOI | Publication Level | Flag | Impact Factor | Name of Conference                                                                                        |
|------|----------------------------------------------------------------------------------------------------------------------|-------------|------|-----|-------------------|------|---------------|-----------------------------------------------------------------------------------------------------------|
| 1    | Trend Analysis of Rainfall And Crop Yield Synchronization For Identifying Optimal Water Requirements In Chhattisgarh | --          | 2025 |     | International     |      |               | International Conference On Wetland And Water Resource Forsustainable Development                         |
| 2    | Reveling The Changing Hydroclimate of The Mahanadi Basin : Trends And Impacts                                        | --          | 2025 |     | International     |      |               | International Conference On Wetland And Water Resource Forsustainable Development                         |
| 3    | a riew on innovation and challenges in 3d concrete printing materials                                                | --          | 2025 |     | International     |      |               | International conference on advances in science, processing and communication technologies (ICASPCT) 2025 |
| 4    | Concept of Sustainable Water Resources Infrastructure                                                                | --          | 2025 |     | International     |      |               | International Conference On Wetland And Water Resource Forsustainable Development                         |
| 5    | SWRI : Sustainable Water Resources Infrastructure: Concept & Application : A Research Study                          | --          | 2023 |     | International     |      |               | AOGS MARS, SINGAPORE                                                                                      |

|    |                                                                                                                                                            |                          |      |  |               |  |  |                                                                                                                |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------|--|---------------|--|--|----------------------------------------------------------------------------------------------------------------|
| 6  | Analysis of Intensity–Duration–Frequency and Depth–Duration–Frequency Curve Projections Under Climate Variability                                          | 978-3-030-64202-0        | 2021 |  | International |  |  | HYDRO 2018 INTERNATIONAL, 23rd International Conference on Hydraulics, Water Resources and Coastal Engineering |
| 7  | Life Cycle Assessment Modelling for a Developing City's Water System                                                                                       | ISSN: 1757-8981          | 2020 |  | International |  |  | IOP Conference Series: Materials Science and Engineering                                                       |
| 8  | Calibration of a hydrological model and sensitivity analysis of its parameters: a case study of Seonath river basin                                        | 2042-7808                | 2019 |  | International |  |  | International Journal of Hydrology Science and Technology                                                      |
| 9  | Impact of Urbanization on Surface Runoff Characteristics at Catchment Scale                                                                                | 978-981-13-2044-6        | 2019 |  | International |  |  | International Conference on Emerging Trends in Water Resources and Environmental Engineering (2017)            |
| 10 | Sustainable Rainwater Harvesting System & Storm Water Management                                                                                           | -                        | 2018 |  | International |  |  | HYDRO-2018 International                                                                                       |
| 11 | Flood Frequency Analysis in Seonath and Hasdeo River Basins Using Index Flood, L-Moments and Locfit Approaches                                             | -                        | 2018 |  | International |  |  | HYDRO-2018 International                                                                                       |
| 12 | Crop Rhizosphere Metagenomics: Novel Exploratory Approach for Identification of Genes/Enzymes and Pathways Related to Pesticide and Xenobiotic Degradation | -                        | 2018 |  | International |  |  | INABASDG-2018                                                                                                  |
| 13 | Temperature Projections in Seonath River Basin by Using Statistical Downscaling Method                                                                     | -                        | 2017 |  | International |  |  | ICEEE 2017                                                                                                     |
| 14 | Response of Urban Lakes Due to Informal Urban Settlements: A case study in Raipur city                                                                     | -                        | 2017 |  | International |  |  | 1st Asian conference on Water and Land Management for Food and Livelihood Security                             |
| 15 | Statistical Downscaling of GCM Data and Analysis of Trend of Predicted Data for Seonath River Basin                                                        | -                        | 2017 |  | International |  |  | ICACEC 2017                                                                                                    |
| 16 | GIS Based Analytic Hierarchy Process in Determination of Suitable Site for Water Storage Application                                                       | ISBN: 978-960-99994-4-0* | 2017 |  | International |  |  | 10th World Congress of EWRA                                                                                    |
| 17 | Stream Flow Estimation Using SWAT Model over Seonath River Basin                                                                                           | -                        | 2016 |  | International |  |  | ICWEES-2016                                                                                                    |
| 18 | Next generation software tool for sustainable urban water modelling : Aquacycle                                                                            | -                        | 2016 |  | International |  |  | International Journal of Control Theory and Applications                                                       |
| 19 | Optimization of Reservoir Operation By Goal Programming Techniques                                                                                         | --                       | 2016 |  | International |  |  | International conference of AOGS at Beijing, China                                                             |
| 20 | Streamflow Estimation Using SWAT Model over Seonath River Basin                                                                                            | -                        | 2016 |  | International |  |  | ICWEES 2016 (AISECT Bhopal & Texas A&M)                                                                        |
| 21 | Drought analysis in the seonath river basin using reconnaissance drought index and standardised precipitation index                                        | -                        | 2016 |  | International |  |  | International Journal of Civil Engineering and Technology                                                      |
| 22 | Statistical Analysis of Rainfall over Seonath Basin, Chhattisgarh, India                                                                                   | -                        | 2015 |  | International |  |  | HYDRO 2015                                                                                                     |

|    |                                                                                                                                          |                         |      |  |               |  |  |                                                                                                         |
|----|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------|--|---------------|--|--|---------------------------------------------------------------------------------------------------------|
| 23 | Development of Decision Support System for Asthma Diagnosis Based on SVM                                                                 | -                       | 2015 |  | International |  |  | International Conference on Modeling and Simulation                                                     |
| 24 | Application of Curve Number Method for Estimation of Runoff Potential in GIS Environment                                                 | -                       | 2015 |  | International |  |  | ICGCE 2015                                                                                              |
| 25 | A Standardized Precipitation Index Based Drought Analysis in Upper Seonath Sub Basin Using GIS                                           | ISBN: 978-93-84935-04-7 | 2014 |  | International |  |  | HYDRO 2014 International                                                                                |
| 26 | Application of GIS for Estimation of Water Potential of Basin                                                                            | ISBN: 978-93-84935-04-7 | 2014 |  | International |  |  | HYDRO 2014 International                                                                                |
| 27 | Estimation of Runoff Potential Using SCS-CN Method with Remote Sensing and GIS                                                           | ISBN: 978-93-84935-04-7 | 2014 |  | International |  |  | HYDRO 2014 International                                                                                |
| 28 | Integrated water resources projects planning using GIS                                                                                   | 978-8-1909-0422-3       | 2012 |  | International |  |  | International Conference on Advances in Engineering , Science And Management (ICAESM 2012) Nagapattinam |
| 29 | Runoff Curve Number Method in Narmada Basin: CN Value and Initial Abstraction Ratio During Peak Flow                                     | -                       | 2012 |  | International |  |  | IEEE International Conference on Advances in Engineering, Science and Management (ICAESM-2012)          |
| 30 | Decision Support System for the Diagnosis of Asthma Severity Using Fuzzy Logic                                                           | -                       | 2012 |  | International |  |  | IAENG International Conference on Bioinformatics                                                        |
| 31 | Fuzzy Logic Based Inflow Prediction Model For Reservoirs of Mahanadi Basin                                                               | ISBN: 978-81-920913-3-4 | 2011 |  | International |  |  | International Conference on Emerging Trends in Soft Computing and ICT (SCICT 2011)                      |
| 32 | Single Wall Carbon Nanotubes Block Ion Passage in Mechanosensitive Ion Channels by Interacting with Extracellular Domain                 | -                       | 2011 |  | International |  |  | International Symposium on the Safe Use of Nanomaterials                                                |
| 33 | Comparative Docking Study of Nitrogen Containing Bisphosphonate with Human Farnesyl Pyrophosphate Synthase for Treatment of Osteoporosis | -                       | 2010 |  | International |  |  | 9th International Conference of Bioinformatics (InCoB 2010)                                             |
| 34 | Hydrological Modeling of Arang Watershed Using Weather Generator in the SWAT Model                                                       | -                       | 2010 |  | International |  |  | 3rd International Conference on Hydrology and Watershed Management (ICHWAM-2010)                        |
| 35 | Identification and Prioritization of Critical Sub-Watersheds Using SWAT Model and GIS                                                    | -                       | 2009 |  | International |  |  | International Conference on Food Security and Environmental Sustainability (FSSES-2009)                 |
| 36 | In-silico Approach to Identify the 3D Structure of Matrix Protein 1 of Influenza A (H5N1) Virus                                          | -                       | 2009 |  | International |  |  | 10th International Conference on Systems Biology (ICSB 2009)                                            |
| 37 | Identification and Designing of a Novel Peptide Inhibitor for Acetyl Cholinesterase (Alzheimer)                                          | -                       | 2009 |  | International |  |  | International Conference on Open Source Computer Aided Drug Designing                                   |

|    |                                                                                                                                                                                  |   |      |  |               |  |  |                                                                                                                                       |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|--|---------------|--|--|---------------------------------------------------------------------------------------------------------------------------------------|
| 38 | Phylogenetic Analysis of Rhodopsin Protein of Mammals, Amphibians and Pisces: Comparative Study                                                                                  | - | 2009 |  | International |  |  | 8th International Conference on Bioinformatics (InCoB 2009)                                                                           |
| 39 | Identification and Designing of Novel Inhibitor for MSP (Merozoite Surface Protein) of Plasmodium falciparum                                                                     | - | 2009 |  | International |  |  | X International Symposium on Vectors & Vector Borne Diseases                                                                          |
| 40 | Identification of a Novel Peptide Responsible for Deterioration of Neuron in Homo sapiens                                                                                        | - | 2009 |  | International |  |  | International Conference on Open Source Computer Aided Drug Designing                                                                 |
| 41 | Development of Effective Management Plan for the Critical Sub-Watersheds of Arang Watershed in Chhattisgarh                                                                      | - | 2009 |  | International |  |  | International Conference on Water, Environment, Energy and Society (WEES-2009)                                                        |
| 42 | In-silico vaccine prediction against Herpes Simplex virus1 (HSV1)                                                                                                                | - | 2008 |  | International |  |  | International Symposium on Newer Frontiers in Biomedical Research                                                                     |
| 43 | In Silico Designing of Inhibitor Against Tin2 for Aging                                                                                                                          | - | 2008 |  | International |  |  | HUGO 13th International Human Genome Meeting                                                                                          |
| 44 | An Artificial Neural Network Approach for Prediction of Proteasomal Cleavage Sites for Large Delta Antigen (HDAg-L) Containing Small Delta Antigen (HDAg-S) of Hepatitis D Virus | - | 2008 |  | International |  |  | International Symposium on Newer Frontiers in Biomedical Research                                                                     |
| 45 | Bioinformatics Tools Based Approach in Identification and In-silico Structure Prediction of PRDX-2 Protein                                                                       | - | 2008 |  | International |  |  | Health Expo & Conference 2008                                                                                                         |
| 46 | In-silico 3D Structure Prediction of Enolase [Bos taurus]                                                                                                                        | - | 2008 |  | International |  |  | 7th InCoB – Seventh International Conference on Bioinformatics                                                                        |
| 47 | Application of Artificial Neural Network Approach for Prediction of Proteosomal Cleavage Sites of Hepatitis D Virus                                                              | - | 2008 |  | International |  |  | Health Expo & Conference 2008                                                                                                         |
| 48 | Management Scenario for the Critical Sub-Watersheds of Chhokranala Watershed in Chhattisgarh                                                                                     | - | 2007 |  | International |  |  | South Asian (International) Conference on Water in Agriculture: Management Options for Increasing Crop Productivity Per Drop of Water |
| 49 | Artificial Recharge of Ground Water                                                                                                                                              | - | 2007 |  | International |  |  | BITCON-2007: National Conference on Recent Advances & Trends in Civil Engineering                                                     |
| 50 | In-silico Structure Prediction of Acid Sensing Ion Channel (ASIC1b) of Rattus norvegicus Through Homology Modeling                                                               | - | 2007 |  | International |  |  | 6th International Conference on Bioinformatics                                                                                        |
| 51 | Application of Real-Time Reservoir Operation Model to Mahanadi Reservoir Project                                                                                                 | - | 2002 |  | International |  |  | International Conference, IIT Kharagpur                                                                                               |
| 52 | Net-Inflow Forecasting Model for Murumsilli Reservoir                                                                                                                            | - | 2000 |  | International |  |  | HYDRO-2000: National Conference on Hydraulics and Water Resources                                                                     |



|    |                                                                  |   |      |  |               |  |  |                                                                                                                            |
|----|------------------------------------------------------------------|---|------|--|---------------|--|--|----------------------------------------------------------------------------------------------------------------------------|
| 53 | Optimal Operation of Multi Objective Multiple-Reservoir System   | - | 2000 |  | International |  |  | International Conference on Integrated Water Management for Sustainable Development (ICIWRM-2000)                          |
| 54 | Improvement of Rainfall-Inflow Relation for Murumsilli Reservoir | - | 2000 |  | International |  |  | HYDRO-2000: National Conference on Hydraulics and Water Resources                                                          |
| 55 | Conceptualization of Net-Inflow in Reservoir Operation           | - | 1999 |  | International |  |  | South Asian Countries International Conference on Challenges to Architects and Civil Engineers During Twenty First Century |

#### **B. Total Publication in National Conferences = 94**

| S.No | Title of paper                                                                                                      | ISSN / ISBN | Year | DOI | Publication Level | Flag | Impact Factor | Name of Conference                                                            |
|------|---------------------------------------------------------------------------------------------------------------------|-------------|------|-----|-------------------|------|---------------|-------------------------------------------------------------------------------|
| 1    | Transforming Universities for Holistic Development                                                                  | --          | 2026 |     | National          |      |               | VC Conference                                                                 |
| 2    | Semi Distributed Modelling of Stormwater Drains Using Integrated Hydrodynamic EPA-SWM Model                         | -           | 2018 |     | National          |      |               | iCHSA 2018                                                                    |
| 3    | Deciphering Pesticides Degrading Genes and Pathways of Wheat Rhizosphere: Metagenomics and Systems Biology Approach | -           | 2017 |     | National          |      |               | 15th Chhattisgarh Young Scientists Congress-2017, CSVTU, Bhilai, Chhattisgarh |
| 4    | Impact of Climate Change on Precipitation of Kwardha Station in Sheonath River Basin                                | -           | 2016 |     | National          |      |               | National Conference on Water Resources and Hydropower, UPES, Dehradun         |
| 5    | Runoff Estimation at Kotni Station in Seonath River Basin by Using SWAT Model                                       | -           | 2016 |     | National          |      |               | National Conference on Water Resources and Hydropower, UPES, Dehradun         |
| 6    | Applicability of SWAT Model over Kharun River Basin, Chhattisgarh, India                                            | -           | 2016 |     | National          |      |               | National Conference on Water Resources and Hydropower, UPES, Dehradun         |
| 7    | Statistical Analysis of Monthly Rainfall for Raipur District, Chhattisgarh                                          | -           | 2015 |     | National          |      |               | BITCON National Conference on Innovation in Civil Engineering                 |
| 8    | Application of Remote Sensing & GIS in Developing Rainfall Runoff Model                                             | -           | 2015 |     | National          |      |               | RIET 2015                                                                     |
| 9    | Application of Remote Sensing and GIS in Water Resource Engineering                                                 | -           | 2015 |     | National          |      |               | BITCON National Conference on Innovation in Civil Engineering                 |
| 10   | Flood Risk Management                                                                                               | -           | 2015 |     | National          |      |               | BITCON National Conference on Innovation in Civil Engineering                 |

|    |                                                                                                                                                                                                          |           |      |     |                   |      |               |                                                                                                                                |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-----|-------------------|------|---------------|--------------------------------------------------------------------------------------------------------------------------------|
| 11 | Impact of Urbanization and Climate Changes on Urban Floods – A Review                                                                                                                                    | -         | 2015 |     | National          |      |               | BITCON National Conference on Innovation in Civil Engineering                                                                  |
| 12 | CO Emission Assessment from Fossil Fuel Energy Use in Raipur                                                                                                                                             | -         | 2015 |     | National          |      |               | RIET 2015                                                                                                                      |
| 13 | Performance Evaluation of Fuzzy Inflow Forecasting Model for Murumsilli and Ravishankar Sagar Reservoir                                                                                                  | -         | 2015 |     | National          |      |               | RIET 2015                                                                                                                      |
| 14 | Analysis of Change in Annual Rainfall for Raipur District, Chhattisgarh                                                                                                                                  | -         | 2015 |     | National          |      |               | PARAS-2015                                                                                                                     |
| 15 | Role of Remote Sensing & GIS in the Environmental Protection                                                                                                                                             | --        | 2014 | DOI | Publication Level | Flag | Impact Factor | National Conference on Recent Advancement in Science and Technology for Sustainable Development of Rural Areas in Chhattisgarh |
| 16 | Energy Policy, Planning & Management for Environmental Protection: A Review                                                                                                                              | -         | 2014 |     | National          |      |               | PARAS 2014                                                                                                                     |
| 17 | Digital Elevation Model Preparation for Topographic Assessment in GIS Environment                                                                                                                        | -         | 2014 |     | National          |      |               | Shaastrarth-2014                                                                                                               |
| 18 | Application of Remote Sensing & GIS in Flood Plain Mapping                                                                                                                                               | --        | 2014 |     | National          |      |               | National Conference on Recent Advancement in Science and Technology for Sustainable Development of Rural Areas in Chhattisgarh |
| 19 | Role of Remote Sensing & GIS in Environmental Protection                                                                                                                                                 | -         | 2014 |     | National          |      |               | PARAS 2014                                                                                                                     |
| 20 | Application of Remote Sensing & GIS in Flood Plain Mapping                                                                                                                                               | -         | 2014 |     | National          |      |               | PARAS 2014                                                                                                                     |
| 21 | Impact of Climate Variability over Mahanadi River Basin                                                                                                                                                  | -         | 2014 |     | National          |      |               | PARAS 2014                                                                                                                     |
| 22 | A GIS Based Groundwater Vulnerability Assessment of Contamination Using DRASTIC Model                                                                                                                    | 2277-1581 | 2014 |     | National          |      |               | HYDRO 2014 : 19th International Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering               |
| 23 | Application of MODFLOW in Water Resource Management                                                                                                                                                      | -         | 2014 |     | National          |      |               | PARAS 2014                                                                                                                     |
| 24 | A Study of Climate Changes over Krishna River Basin                                                                                                                                                      | -         | 2014 |     | National          |      |               | Shaastrarth-2014                                                                                                               |
| 25 | Impact of Climate Variability over Mahanadi River Basin", Paras 2014, 2nd National Conference on Recent Advancement in Science and Technology for Sustainable Development of Rural Areas in Chhattisgarh | --        | 2014 |     | National          |      |               | National Conference on Recent Advancement in Science and Technology for Sustainable Development of Rural Areas in Chhattisgarh |
| 26 | Green Technology for Sustainable Development in Agriculture                                                                                                                                              | -         | 2014 |     | National          |      |               | PARAS 2014                                                                                                                     |

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|----|-------------------------------------------------------------------------------------------------------------|----|------|--|----------|--|--|--------------------------------------------------------------------------------------------------------|
| 27 | Modeling of Glycogen Phosphorylase by Protein-Ligand Complex Based on Multiple Templates and Loop           | -  | 2013 |  | National |  |  | National Seminar on Application of Artificial Intelligence in Bioinformatics/Life Sciences, NIT Raipur |
| 28 | In Silico Docking Analysis of Nitrogen Containing Bisphosphonate with Human Farnesyl Pyrophosphate Synthase | -  | 2013 |  | National |  |  | National Seminar on Application of Artificial Intelligence in Bioinformatics/Life Sciences, NIT Raipur |
| 29 | In Silico Interaction Analysis of Single and Multi Wall Carbon Nanotube with Different Ion Channel          | -  | 2013 |  | National |  |  | National Seminar on Application of Artificial Intelligence in Bioinformatics/Life Sciences, NIT Raipur |
| 30 | Molecular Modeling and Docking Analysis of Novel Drug-like Compounds for NDM-1                              | -  | 2013 |  | National |  |  | National Seminar on Application of Artificial Intelligence in Bioinformatics/Life Sciences, NIT Raipur |
| 31 | ANFIS Approach for the Diagnosis of Asthma Severity                                                         | -  | 2013 |  | National |  |  | National Seminar on Application of Artificial Intelligence in Bioinformatics/Life Sciences, NIT Raipur |
| 32 | A Computational Approach for Structure Prediction of Adenosine Deaminase [Bos Taurus]                       | -  | 2013 |  | National |  |  | National Seminar on Application of Artificial Intelligence in Bioinformatics/Life Sciences, NIT Raipur |
| 33 | An Evaluation of Urban Growth in Context of Census 2011                                                     | -  | 2011 |  | National |  |  | 27th National Convention on Integrated Development of Towns as Growth Centres                          |
| 34 | Optimum Use of Water Resources for the Development of Towns                                                 | -  | 2011 |  | National |  |  | 27th National Convention on Integrated Development of Towns as Growth Centres                          |
| 35 | Water Resources Management: Need of the Hour",                                                              | -- | 2011 |  | National |  |  | 27th National Convention on Integrated Development of Towns as Growth Centres                          |
| 36 | Impact of Flooding in Urban Region                                                                          | -  | 2011 |  | National |  |  | 27th National Convention on Integrated Development of Towns as Growth Centres                          |
| 37 | Integrated Township Planning: Need of Hour                                                                  | -  | 2011 |  | National |  |  | 27th National Convention on Integrated Development of Towns as Growth Centres                          |
| 38 | Estimation of Hydropower Potential by Optimum Reservoir Operation                                           | -  | 2011 |  | National |  |  | 38th National Conference on Fluid Mechanics and Fluid Power (NCFMFP), MANIT Bhopal                     |

|    |                                                                                                                                           |   |      |  |          |  |  |                                                                                                     |
|----|-------------------------------------------------------------------------------------------------------------------------------------------|---|------|--|----------|--|--|-----------------------------------------------------------------------------------------------------|
| 39 | Computer Applications in Dynamic Analysis                                                                                                 | - | 2011 |  | National |  |  | 27th National Convention on Integrated Development of Towns as Growth Centres                       |
| 40 | Quantifying Impact of Land Use Changes on Direct Runoff: A Case Study of Lower Narmada Watershed                                          | - | 2011 |  | National |  |  | Environmental Perspectives and Challenges for the 21st Century, Andhra University                   |
| 41 | Assessment of Asian Cities on the Basis of Green City Index                                                                               | - | 2011 |  | National |  |  | 27th National Convention on Integrated Development of Towns as Growth Centres                       |
| 42 | Rainfall-Inflow Modeling Using ANN and Fuzzy Logic                                                                                        | - | 2011 |  | National |  |  | National Conference on Hydraulics and Water Resources, SVNIT Surat & Indian Society for Hydraulics  |
| 43 | Water Resources Management: Need of Hour                                                                                                  | - | 2011 |  | National |  |  | 27th National Convention on Integrated Development of Towns as Growth Centres                       |
| 44 | Regional Flood Estimation by Index Flood and Station Year Method                                                                          | - | 2011 |  | National |  |  | National Conference on Hydraulics and Water Resources, SVNIT Surat & Indian Society for Hydraulics  |
| 45 | Modeling of Glycogen Phosphorylase by Protein-Ligand Complex Based on Multiple Templates and Loop Refinement                              | - | 2010 |  | National |  |  | 4th National Seminar on Global Perspective of Biological Researches in the Present Scenario         |
| 46 | Earthquake Safety and Disaster Management Issues Especially Before and During the Earthquake                                              | - | 2010 |  | National |  |  | National Training Programme under NP-CBEERM, NIT Raipur                                             |
| 47 | Optimum Reservoir Operation by Min-Max, Weighted and Preemptive Goal Programming Techniques Applied to Mahanadi Reservoir Project Complex | - | 2010 |  | National |  |  | National Workshop: Real Time Hydrological Modeling for Ganga-Brahmaputra Basin, NIT Rourkela        |
| 48 | In-silico Structure Prediction of Amylase [Drosophila Melanogaster]                                                                       | - | 2009 |  | National |  |  | National Conference on Bioinformatics and Computational Technologies, JNV University, Jodhpur       |
| 49 | In Silico 3D Structure Prediction of Glucose 6 Phosphate Isomerase [Trypanosoma Brucei Gambiense]                                         | - | 2009 |  | National |  |  | Human Genomics & Cultural Diversity, SOS in Anthropology, Pt. Ravishankar Shukla University, Raipur |
| 50 | Comparative Studies on 3D Structure of Amylase [Drosophila Melanogaster]                                                                  | - | 2009 |  | National |  |  | Human Genomics & Cultural Diversity, SOS in Anthropology, Pt. Ravishankar Shukla University,        |

|    |                                                                                                              |    |      |  |          |  |  |                                                                                               |
|----|--------------------------------------------------------------------------------------------------------------|----|------|--|----------|--|--|-----------------------------------------------------------------------------------------------|
|    |                                                                                                              |    |      |  |          |  |  | Raipur                                                                                        |
| 51 | Reservoir Sediment Studies", National Conference on Technological Advances in Civil Engineering              | -- | 2008 |  | National |  |  | National Conference on Technological Advances in Civil Engineering, BITCON 2008               |
| 52 | Urban Rain Water Harvesting and Ground Water Recharging                                                      | -  | 2008 |  | National |  |  | BITCON 2008: National Conference on Technological Advances in Civil Engineering               |
| 53 | Rainfall-Runoff Model with Fuzzy Logic Approach                                                              | -  | 2008 |  | National |  |  | ETC-ID 2008: Emerging Trends in Civil Engineering for Infrastructure Development, NIT Raipur  |
| 54 | Murumsilli Earthen Dam Project: An Irrigational Heritage Structure of Chhattisgarh State                     | -  | 2008 |  | National |  |  | BITCON 2008: National Conference on Technological Advances in Civil Engineering               |
| 55 | System Design Approach for Urban Rainwater Harvesting                                                        | -  | 2008 |  | National |  |  | ETC-ID 2008: Emerging Trends in Civil Engineering for Infrastructure Development, NIT Raipur  |
| 56 | Reservoir Management Using Soft Computing Techniques                                                         | -  | 2008 |  | National |  |  | National Seminar on Water Vision 2030, IWWA Nagpur Centre                                     |
| 57 | Fuzzy Logic Approach in Rainfall-Runoff Modeling for Dudhawa Reservoir of Mahanadi Reservoir Project Complex | -- | 2008 |  | National |  |  | National Seminar Water Vision 2030, 24-25 December, 2008                                      |
| 58 | Study of Flood Routing Methods for Reservoirs                                                                | -  | 2008 |  | National |  |  | BITCON 2008: National Conference on Technological Advances in Civil Engineering               |
| 59 | Murumsilli Earthen Dam Project: An Irrigation Heritage Structure of Chhattisgarh State                       | -- | 2008 |  | National |  |  | National Conference on Technological Advances in Civil Engineering, BITCON 2008               |
| 60 | Parkinson Disease Pathway: Design a Computational Model for Comparative Study                                | -  | 2008 |  | National |  |  | Health Expo & Conference 2008                                                                 |
| 61 | Application of Fuzzy Logic in Rainfall-Runoff Modeling for Murumsilli Reservoir                              | -  | 2008 |  | National |  |  | National Symposium on Water Resources in India: Concerns, Conservation and Management (WRIIN) |
| 62 | Fuzzy Logic Approach in Rainfall-Runoff Modeling for Dudhawa Reservoir of MRP Complex                        | -  | 2008 |  | National |  |  | National Seminar on Water Vision 2030, IWWA Nagpur Centre                                     |
| 63 | Optimal Utilization of Available Water Resources System                                                      | -  | 2008 |  | National |  |  | National Seminar on Water Vision 2030, IWWA Nagpur Centre                                     |

|    |                                                                                                        |    |      |  |          |  |  |                                                                                                                                   |
|----|--------------------------------------------------------------------------------------------------------|----|------|--|----------|--|--|-----------------------------------------------------------------------------------------------------------------------------------|
| 64 | Development and Application of Fuzzy Logic Based Rainfall-Runoff Model                                 | -  | 2008 |  | National |  |  | National Conference on Hydraulics & Water Resources HYDRO 2008, MNIT Jaipur                                                       |
| 65 | Development and Application of Fuzzy Logic Based Rainfall- Runoff Model                                | -- | 2008 |  | National |  |  | National Conference on Hydraulics & Water Resources, HYDRO 2008                                                                   |
| 66 | Reservoir Sedimentation Studies                                                                        | -  | 2008 |  | National |  |  | BITCON 2008: National Conference on Technological Advances in Civil Engineering                                                   |
| 67 | Deterministic Seismic Hazard Analysis for Raipur City                                                  | -  | 2008 |  | National |  |  | ETC-ID 2008: Emerging Trends in Civil Engineering for Infrastructure Development, NIT Raipur                                      |
| 68 | Weighted Goal Programming – An Effective Tool for Optimal Operation of Multiple Reservoir Systems      | -  | 2008 |  | National |  |  | National Seminar on Water Vision 2030, IWWA Nagpur Centre                                                                         |
| 69 | Application of Soft Computing Techniques in Civil Engineering                                          | -  | 2007 |  | National |  |  | BITCON-2007: National Conference on Recent Advances & Trends in Civil Engineering                                                 |
| 70 | Water Resources Scenario of Chhattisgarh State: A Review                                               | -  | 2007 |  | National |  |  | BITCON-2007: National Conference on Recent Advances & Trends in Civil Engineering                                                 |
| 71 | Interlinking of Indian Rivers: Networking for Water Scarcity Problem                                   | -- | 2007 |  | National |  |  | National Conference on Recent Advances & Trends in Civil Engineering, BITCON 2007                                                 |
| 72 | Effective Planning and Management for Critical Areas of Chhokranala Watershed Using SWAT Model and GIS | -  | 2007 |  | National |  |  | BITCON-2007: National Conference on Recent Advances & Trends in Civil Engineering                                                 |
| 73 | Application of Seismic Hazard Analysis for Dams                                                        | -  | 2007 |  | National |  |  | 23rd National Convention of Civil Engineers & National Seminar on Seismic Response: Design & Strengthening of Building Structures |
| 74 | Urban Rainwater Harvesting and Ground Water Recharging                                                 | -  | 2007 |  | National |  |  | BITCON-2007: National Conference on Recent Advances & Trends in Civil Engineering                                                 |
| 75 | System Design Approach for Urban Rain-water Harvesting and Ground-water Recharging                     | -  | 2006 |  | National |  |  | National Conference on Role of Soil and Water Conservation in Rural Employment                                                    |
| 76 | An Approach for Sustainable Water Resources Development and Management                                 | -  | 2003 |  | National |  |  | Workshop on Emerging Challenges in Water Resources Before Chhattisgarh State                                                      |



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| 77 | Development of Sustainable Water Resources Infrastructure for the State of Chhattisgarh                            | - | 2003 |  | National |  |  | National Conference on Issues Pertaining to the Development of New State and the Capital of Chhattisgarh  |
| 78 | Optimum Reservoir Operation: An Application to Kodar Reservoir Project                                             | - | 2003 |  | National |  |  | Workshop on Emerging Challenges in Water Resources Before Chhattisgarh State                              |
| 79 | Guidelines for Construction of New Cement Concrete Roads                                                           | - | 2003 |  | National |  |  | National Conference on Issues Pertaining to the Development of New State and the Capital of Chhattisgarh  |
| 80 | Ready Mix Concrete: A Need of Time for Development of New State Capital                                            | - | 2003 |  | National |  |  | National Conference on Issues Pertaining to the Development of New State and the Capital of Chhattisgarh  |
| 81 | Importance of the Optimization Techniques in Operation of Existing Water Resources Systems                         | - | 2001 |  | National |  |  | National Workshop on Computer Applications in Mineral Exploration, Mining and Water Resource Management   |
| 82 | Development of Rainfall-Net Inflow Models for Murumsilli Reservoir                                                 | - | 2000 |  | National |  |  | 32nd Annual Convention of IWWA                                                                            |
| 83 | Problems of Existing Urban Water Supply Distribution Networks and a Solution Approach                              | - | 2000 |  | National |  |  | Workshop on Management of Urban Infrastructure (INFRA Y2K)                                                |
| 84 | Modification of Rainfall-Inflow Relation for Dudhawa Reservoir                                                     | - | 1999 |  | National |  |  | National Conference of Hydraulics                                                                         |
| 85 | Net-Inflow Forecasting Model for Dudhawa Reservoir                                                                 | - | 1999 |  | National |  |  | National Seminar on Water Resources Management for Sustainable Development                                |
| 86 | Attitudinal Approach to Enhance Structure Utility with Interactive Database in Education and Construction Industry | - | 1999 |  | National |  |  | National Conference on Construction-Infrastructure-2000                                                   |
| 87 | Rainfall-Net-Inflow Modeling for Ravishankar Sagar Reservoir                                                       | - | 1999 |  | National |  |  | National Conference of Hydraulics                                                                         |
| 88 | Forecasting of Net-Inflow for Reservoir Operation: A Case Study of Ravishankar Sagar Reservoir                     | - | 1999 |  | National |  |  | National Workshop on Challenges in the Management of Water Resources & Environment in the Next Millennium |
| 89 | Improvement of Rainfall-Inflow Relation for Ravishankar Reservoir                                                  | - | 1999 |  | National |  |  | National Seminar on Water Resources Management for Sustainable Development                                |
| 90 | Strategies for Enhancement of Irrigation Benefits from Mahanadi Reservoir Project                                  | - | 1998 |  | National |  |  | National Workshop on Prospects & Potential of Water Resources in Chhattisgarh                             |

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| 91 | Inculcation of Environmental Awareness in Education                           | - | 1998 |  | National |  |  | National Seminar on Environmental Aspects of Engineering Practices            |
| 92 | Prospects and Potential of Water Resources of Chhattisgarh State              | - | 1998 |  | National |  |  | National Workshop on Prospects & Potential of Water Resources in Chhattisgarh |
| 93 | Inculcation of Environmental Concern in the Curriculum of Technical Education | - | 1988 |  | National |  |  | National Seminar on Global Warming & Environmental Degradation                |
| 94 | Development and Design Improvement of a Cross Flow Turbine                    | - | 1987 |  | National |  |  | National Conference on Fluid Mechanics and Fluid Power, Shrinagar             |