

# CURRICULUM – VITAE

## ***Dr. Sunil K. Pandey***

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### **Objective**

To hold position of responsibility in an organization with an opportunity for growth of an institution along with having a long term relationship with better teaching abilities to conduct myself in such a manner so as to uphold the dignity of profession.

1. Name: **Sunil Kumar Pandey**
2. Father's Name: Shri R. N. Pandey
3. Date of Birth: 30-07-1975
4. Corr. address: Department of Chemistry A.P.S. University Rewa, (M.P.), India. 486003
5. Permanent address: Village post: Badi Harrai, Tahsil: Semariya, Dist: Rewa, (M.P.). 486445

### **Academic Qualifications:**

**Doctor of Philosophy** in Chemistry from A.P.S. University (M.P.) submitted on Dec 2002 and awarded 2003.

**Title of the Thesis:** Environmental Studies on utilization of fly ash with special Reference to heavy metals and their environmental impacts.

**Supervisor:** (Late) Prof. K. C. Mathur (former head department of chemistry A.P.S. University, Rewa, MP).

**Master of Science** from A. P. S. University with specialization on Inorganic chemistry along with 69.75% in 1998.

**Bachelor of Science** from A. P. S. University with science stream (Chemistry, Zoology and Botany) with 64.11% in 1996.

**H. Secondary** from Saraswati H.S. School, M.P. Board, Bhopal (M.P.) with Bio stream (Chemistry, Physics and Biology) with 68.37% in 1992.

**High School** from Saraswati H. S. School, M.P. Board, Bhopal (M.P.) with all subjects with 69.23% in 1990.

### **Teaching Experience:**

- ◆ **Present status:** Guest Faculty for PG in Department of Chemistry, A.P.S. University Rewa (M.P.) from July 06, 2011 to till date.
- ◆ Assistant Professor (temp.) for UG & PG in department of chemistry, Guru Ghasidas Central University, Bilaspur, (C.G.) from 12 July 2010 to 16 June 2011.
- ◆ Contractual Faculty for PG and M. Phil in Department of Chemistry, A.P.S. University Rewa (M.P.) from 13<sup>th</sup> Dec 2001 to 10<sup>th</sup> June 2010.

### **Research/Technical Experiences:**

- Fifteen years research experience in field of Environmental Chemistry.
- One year research experience in field of biological system with special concern to weak interaction and polymorphs.

### **Area of Specializations:**

Inorganic Chemistry, Bioinorganic, Environmental Chemistry, Group theory, Chemical/ heavy metals toxicology/ air contaminants/ water & soil based toxicity evaluations/ observations and assessment with recovery of heavy metals from fly ash etc.

### **Academic Membership:**

- (1) The Indian Science Congress Association (Life Member)  
Chemical Sci., Membership no.- L26788, March 2015.

## **Book / Papers**

- (1). Environmental studies: Fly ash and heavy metals (**Book**)  
**Sunil Kumar Pandey** and Ved Prakash Singh  
Publishers: LAP LAMBERT academic Publishing GmbH & Co. KG.  
Dudweiler Landstr. 99-66123 saarbrucken, Germany, 2011 (ISBN: 978-3-8454-2331-9).
- (2). An assessment of mercury pollution in Singrauli region  
**Sunil K. Pandey**, Ambikesh Pandey and K. C. Mathur  
**Proceeding of International Conference** on industrial Pollution and Control technologies. (ICIPACT-2001) 7-10 Dec, JNTU, Hyderabad (A.P.), Page : 35. (**Non- refereed, non- indexed**)
- (3). Stastical investigations of carrying capacity of cement and lime industries; environmental aspects part I- transport of pollution in Satna.  
K.C. Mathur, **Sunil K. Pandey**, Ch. Vijay Bhaskar Reddy, Ambikesh Pandeyb and P V Khadiker  
International Journal of Pollution and Research, Karad. India 2003, 22(4) 479-482 ISSN: 02578050. (**Refereed, indexed**)
- (4). Stastical studies on carrying capacity of cement and lime industries; part I correlation of air quality index (AQI) with ambient air quality (AAQ)  
K C Mathur, **Sunil K. Pandey**, Ch. Vijay Bhaskar Reddy, Ambikesh Pandey, P V Khadiker and P.D. Shrivastava.  
International Journal of Environmental protection and Ecology, Bulgaria, 4, No-1, 16-23 (2003) ISSN: 13115065. (**Refereed, IF-0.838**)
- (5). An assessment of recovery of some value- added metals from fly ash  
**Sunil K. Pandey**  
Research Journal of Vindhya Bharti, No. 12, Vol. 1, 63-66 (2012) ISSN: 0976-9986. (**Refereed, non-indexed**)
- (6). Physiochemical status of ground water of Singrauli district (M.P.) India  
Rajesh Pandey and **Sunil K. Pandey**  
International Journal of Pharmaceutical Sciences and Research, 2012, Vol. 3(10): 3823-3828, ISSN: 0975- 8232. (**Refereed, IF-1.89**)
- (7). Cadmium monitoring among some plant and vegetable species in Singrauli region in M.P.  
**Sunil K. Pandey** and Rejesh Pandey  
International Journal of Pharmaceutical Sciences and Research, 2012, Vol. 3 (11): 4482-4488, ISSN: 0975- 8232. (**Refereed, IF-1.89**)
- (8). Lead (Pb) accumulation study in plant and vegetables cultivates around coal mines and power plants of singrauli district.  
Rajesh Pandey, Ved Prakash Singh and **Sunil K. Pandey**  
International Journal of Pharmaceutical Sciences and Research, 2012, Vol.3 (12):5079-5086, ISSN: 0975- 8232. (**Refereed,IF-1.89**)
- (9). Optimization of impact of MS for *In-vitro* propagation of *Tropaeolum Majus* (Nasturtium): An ornamental Plant.  
Rashmi Pandey, Shivani Awasthi, Rashmi Arnold, Arti Saxena, **Sunil Pandey** and Seema Tiwari  
International Journal of Green and Herbal Chemistry, 2014, Vol. 3, No. 1: 035-040, ISSN: 2278-3229. (**Refereed,IF-1.839**)
- (10). Screening of protein analysis by using leaf extract of some selected medicinal plants Tulsi, Pudina, Dhania, Alovera and Amla.  
Puja Singh, Rashmi Arnold, Arti Saxena, **Sunil K. Pandey** and Seema Tiwari and Rashmi Pandey,  
International Journal of Green and Herbal Chemistry, 2014, Vol. 3, No. 1: 276-283, ISSN: 2278-3229. (**Refereed, IF-1.839**)
- (11). Optimization and characterization of proteases produced by different species of Aspergillus in special reference to pH: A review

Seema Tiwari, Sunil Tiwari, Rashmi Arnold, Arti Saxena, **Sunil K. Pandey** and Neeti Mishra,  
Journal of Chemical, Biological and Physical Sciences, 2014, Vol. 4, No. 2: 1101-1107, ISSN: 2249-1929. (**Refereed, IF-1.082**)

- (12) Air Quality Status and Seasonal Variation of Ambient Air Quality Pollutants Level around JK Whit Cement Plant Gotan, (Rajasthan)  
Sunil Tiwari, Rashmi Arnold, Arti Saxena, **Sunil K. Pandey**, Neeti Mishra, and Seema Tiwari.  
Journal of Environmental Science, Computer Science and Engineering & Technology, 2014, Vol. 3, No. 1, 175-181, ISSN: 2278-179X. (**Refereed, IF-1.472**)
- (13) Studies on water pollution of river Bicchiya: Physicochemical Characteristics  
**Sunil K. Pandey**  
Journal of Environmental Science, Computer Science and Engineering & Technology, 2014, Vol. 3, No. 2, 855-862, ISSN: 2278-179X. (**Refereed, IF-1.472**)
- (14) A review on floral biology of *Tropaeolum Majus* L. (Tropaeolaceae): An ornamental plant  
Seema Tiwari, Rashmi Arnold, Arti Saxena, **Sunil K. Pandey**, Neeti Mishra, and R. M. Mishra.  
International Journal of Green and Herbal Chemistry, 2014, Vol. 3, No. 2, 722-727, ISSN: 2278-3229. (**Refereed, IF-1.839**)
- (15) Determination of physicochemical properties of underground water in vicinity of Pawai territory  
**Sunil K. Pandey**  
Journal of Environmental Science, Computer Science and Engineering & Technology, 2014, Vol. 3, No. 2, 863-869, ISSN: 2278-179X. (**Refereed, IF-1.472**)
- (16) Evaluation of water quality index of Bicchiya river  
**Sunil K. Pandey**  
Journal of Environmental Science, Computer Science and Engineering & Technology, 2014, Vol. 3, No. 2, 874-880, ISSN: 2278-179X. (**Refereed, IF-1.472**)
- (17) Coal fly ash: Some aspects of characterization and environmental impacts.  
**Sunil K. Pandey**  
Journal of Environmental Science, Computer Science and Engineering & Technology, 2014, Vol. 3, No. 2, 921-937, ISSN: 2278-179X. (**Refereed, IF-1.472**)
- (18) Trace metal accumulation in vegetables grown in industrial and semi-urban area of Singrauli District of Madhya Pradesh India.  
Rajesh Pandey and **Sunil K. Pandey**  
International Journal of Pharmaceutical Sciences and Research, 2014, Vol. 5(12):5519-5529, ISSN: 0975- 8232. (**Refereed, IF-1.89**)
- (19) Application of WQI to assess suitability of groundwater quality for drinking purposes of Pawai terrain.  
**Sunil K. Pandey**  
Journal of Environmental Science, Computer Science and Engineering & Technology, 2015, Sec. A, Vol. 4, No. 1, 0164-0172, ISSN: 2278-179X. (**Refereed, IF-1.472**)
- (20) Seasonal physicochemical analysis of Drain water discharge in Mandakini river of Chitrakoot, India  
Rashmi Patel, Rajesh Pandey and **Sunil K. Pandey**  
International Journal of Green and Herbal Chemistry, 2015, Sec. A, Vol. 4, No. 1, 116-124, ISSN: 2278-3229. (**Refereed, IF-1.839**)
- (21) Studies on carrying capacity of drain water of Mandakini river; WQI aspect part-I in summer season  
**Sunil K. Pandey**  
International Journal of Green and Herbal Chemistry, 2015, Sec. A, Vol. 4, No. 2, 151-158, ISSN: 2278-3229. (**Refereed, IF-1.839**)
- (22) Heavy metals investigation in productivity parts of wheat crop during winter seasons in Singrauli district of Madhya Pradesh India: A case study

- Rajesh Pandey, Pradeep K. Singh, **Sunil K. Pandey**, Bhavna Singh, Babbu Lal Patel and Manish K. Dwivedi  
International Journal of Green and Herbal Chemistry, 2015, Sec. A, Vol. 4, No. 2, 208-220, ISSN: 2278-3229. **(Refereed, IF-1.839)**
- (23) Biological variation on plant and plant product via accumulation of Cadmium and their derivatives as biotoxicant: A Review  
Rajesh Pandey, Pradeep K. Singh, **Sunil K. Pandey**, Bhavna Singh, Babbu Lal Patel and Manish K. Dwivedi  
International Journal of Green and Herbal Chemistry, 2015, Sec. A, Vol. 4, No. 3, 370-388, ISSN: 2278-3229. **(Refereed, IF-1.839)**
- (24) Operational power plants based impacts on plant biodiversity to measure atmosphere degradation in Singrauli District, M.P., India  
Rajesh Pandey, Pradeep K. Singh, **Sunil K. Pandey**, Bhavna Singh, and Babbu Lal Patel  
International Journal of Life Sciences and Review, 2015, Vol. (1) 5, 199-206, ISSN: 2394-9864. **(Refereed, Indexed)**
- (25) Interaction of BSA-MO system in Aqueous solution: UV- Visible absorption spectroscopic study  
**Sunil K. Pandey** and Ved P. Singh  
Science and Technology Journal, Vol. 2, No. 1, ISSN: 2321-3388. **(Refereed, non-indexed)**
- (26) Effluence of heavy metals, way of exposure and bio-toxic impacts: An update  
Rajesh Pandey, Manish K. Dwivedi, P. K. Singh, Babbu Lal Patel, **Sunil K. Pandey**, Balendra Patel, Anita Patel and Bhavna Singh  
Journal of Chemistry and Chemical Sciences, 2016, Vol. 6 (5), 458-475, ISSN: 2319-7625. **(Refereed, IF-1.20)**
- (27) Chromium Cr (III) and Cr (VI) impact: A *health prospective Review*  
Rajesh Pandey, **Sunil K. Pandey** Manish K. Dwivedi, P. K. Singh, B.L. Patel, , Anita Patel, Balendra Patel, and Bhavna Singh  
International Journal of Green and Herbal Chemistry, 2016, Sec. A, Vol. 5, No. 4, 403-412, ISSN: 2278-3229. **(Refereed, IF-1.839)**
- (28) Study of self- assembly features in 4H-pyranes : Synthesis, Hirshfeld surface, and energy framework analysis  
Lalhruaizelaa , Brilliant N. Maraka , Biki Hazarikaa , **Sunil Kumar Pandey** b , Ramesh Katariac , Ved Prakash Singha,d,\*  
Journal of Molecular Structure, 1265 (2022) 133361, ISSN: 0022-2860, **(Refereed, IF- 3.841)**
- (29) Plants oil and extract as corrosion inhibitors for steel corrosion in acid media - A review  
Science and Technology Journal, **In Press**, ISSN: 2321-3388. **(Refereed, non-indexed)**

### **Conferences/ Seminars**

- (1) An assessment of mercury pollution in Singrauli region.  
Sunil K. Pandey, Ambikesh Pandey and K. C. Mathur  
**International Conference** on industrial Pollution and Control technologies. (ICIPACT-2001) JNTU, Hyderabad (A.P.), Dec. 7-10, Page-35.
- (2) Recovery of some value-added metal form fly ash of environmentally degraded Singrauli region (M.P.)  
Sunil K Pandey  
XVII M.P. Young Scientist Congress, Organized by MGCG University, Chitrakoot (M.P.) 2002. March 25 & 26, Page-62.
- (3) Study of Fly ash containing toxic metals: Effect on vegetation around coal fired plants  
Sunil K Pandey  
XVIII M.P. Young Scientist Congress, Organized by MP Bhoj University, Bhopal (M.P.) 2003. March 4 & 5, Page-55.
- (4) Study on mercury pollution in Singrauli region  
Sunil K Pandey  
National seminar on Recent trends in Chemical sciences, Organized by A.P.S. University M.P. 2010. May 12 & 13, Page-59.

- (5) Investigation of lead pollution in Singrauli region  
Sunil K Pandey  
47 Annual conventions of Chemist and **international conference** on recent advances in Chemical sciences, Organized by Indian Chemical Society and Pt. Ravi Shankar Shukla University, Raipur. (C.G.) 2010, Dec. 23-27, Page D-18.
- (6) Study of Metal toxicity status around thermal power station  
Sunil k Pandey  
National seminar on Chemistry and environmental Toxicity Organized by SMT IGGG college Satna (M.P.), 2011 Oct 15 & 16, Page-91.
- (7) Study of air quality status around thermal power station  
Sunil k Pandey  
National seminar on expanding horizons in chemical sciences Organized by A. P. S. University (M.P.) 2011 Oct 22 & 23, Page-43.
- (8) Work shop in "Uses of Chemical in Daily Life"  
Sponsored by University Grant Commission New Delhi in Department Of Chemistry, Govt. T. R.S. College Nov. 4, 2011.
- (9) Physico-Chemical studies of water quality near thermal power plants  
Sunil K Pandey and Sanjay Tiwari  
National workshop on recent advances in biological sciences Organized by Govt. Science College. Rewa (M.P.) 2011 Nov 18 & 19, Page-54.
- (10) Cadmium bio-monitoring among some plant and vegetable species in Singrauli region.  
Sunil K Pandey  
**International conferences** on green technologies for environmental rehabilitations (GTER-2012) organized by Gukul kangri University, Hridwar (U.K.) 2012 Feb 11-13, Page-169.
- (11) Atomic absorption spectroscopy: Environmental sampling  
Sunil K. Pandey  
National seminar on modern trends in spectroscopic and instrumentation techniques (MTSIT) organized by Pt. S. N. S. Govt. PG College Shahdol (M.P.) 2012 March 17& 18, Page-51.
- (12) Study of metal accumulation in some vegetable species  
Sunil K. Pandey  
National seminar on conservation and management of Indian rivers with special reference to Mandakini river, organized by Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyala, Chitrakoot. March30-31, 2012.
- (13) Water quality and pollution status near power capital of Madhya Pradesh, India  
Sunil K. Pandey  
15th CRSI National Symposium in Chemistry (NSC-15) Organized by Banaras Hindu University, Banaras. February 1-3, 2013
- (14) Substantial water pollution risks of landfill area in and around coal mines  
Sunil K. Pandey  
VIII<sup>th</sup> National Conference on Biotechnology, Biodiversity and Environment, Organized by Govt. M. S. G. College, Rewa (M.P.) April 19-20, 2013
- (15) Preliminary investigation on Ni-Ba nanoferrite doped polypyrrol membrane for electrochemical application  
Deepshikha Tripathi, C.P.Singh, Sunil K. pandey, P.K. Shukla and S.L.Agrawa  
National conference on Application of highPressure Techniques & Novel Materials in the Frontiers of Science, Organised by National centre of Experimental Mineralogy and Petrology, University of Allahabad, Allahabad (UP) October 25-26, 2013.
- (16) Monitoring of water quality and pollution status of Bicchiya river in Rewa, (M.P.)  
Sunil K. Pandey  
National conference on Environmental pollution and natural resource conservation, Organized by

Govt. Science College Rewa, Feb. 22-23, 2014. Page-78.

- (17) Identification of cadmium accumulation among some plants and vegetables cultivated around ash dyke.  
Sunil K. Pandey  
**International Conference** on Energy Environment & Life Science for Sustainable Future, Organized by swami Vivekanand University, Sagar India, Feb. 28- March 1, 2014. Page-26.
- (18) Lead bio-monitoring among some vegetable species around power capital of India,  
Sunil k. Pandey  
National Seminar on Natural Resource management, Genetic Resource conservation & Human welfare, Organized by Govt. girls P. G. College Rewa (M.P.), November 8-9, 2014. Page-7.
- (19) Quantification study of a toxic heavy metal pollutant in vegetables leaf collected from waidhan area of India.  
Sunil k. Pandey  
National seminar on Urbanization and its impacts on Environment, Organized by Govt. Girls college Satna (M.P.), Dec. 6-7, 2014, Page-18.
- (20) Classification and zoning of water quality for Bichhiya river in central Vindhya region of Madhya Pradesh based on Water Quality Index.  
Sunil K. Pandey and Rajesh Pandey  
National conference on sustainable water resources management: challenges and opportunities, Organized by Rani Durgavati University Jabalpur, Jan. 20-21, 2015, Page-61.
- (21) Environmental sampling: Analysis of toxic metal in vegetables  
Sunil K. Pandey  
National seminar on comprehensive protection, conservation and management of environment, Organized by Pt. S.N.S. Govt. P.G. College, Shahdol (M.P.), March 29-30, 2015, Page-13.
- (22) Application of WQI to assess carrying capacity of drain water of mandakini river  
Sunil K. Pandey  
**International conference** on Natural Resources, Environment and Health organized by Govt. Model Science College Rewa (M.P.), March 28-29, 2017, Page-99.
- (23) Monitoring of water quality and pollution status of Mandakini river through WQI  
Sunil K. Pandey  
National conference on chemistry for mankind organized by APS University Rewa (MP), Jan. 27-28 2018

### **Invited lectures/ Talks**

- (1) Workshop on Global Warming, Climate Change and impact on water resources  
Organized by Riral Division of Environmental Planning and Coordination Organization, Department of Environment, Govt. of M.P., APS University, Rewa M.P., April 15<sup>th</sup>, 2010.
- (2) Seminar on Electric waste Management and Handling  
Organized by Regional Office M.P. Pollution Control Board, Rewa, MP, February, 27<sup>th</sup>, 2013.
- (3) Workshop on Awareness Programme during Durga Utsav  
Organized by Regional Office M.P. Pollution Control Board, Rewa, MP, August, 16<sup>th</sup>, 2013
- (4) A Lecture on Symmetry and its Elements  
Department of Chemistry, Govt. t. R. S. College Rewa, MP, September, 10<sup>th</sup>, 2013
- (5) Seminar on Idol immersion  
Organized by Regional Office M.P. Pollution Control Board, Rewa, MP, October, 11<sup>th</sup>, 2013.
- (6) Workshop on World Wetland Day  
Organized by Riral Division of Environmental Planning and Coordination Organization, Department of Environment, Govt. of M.P., APS University, Rewa M.P., February, 18<sup>th</sup>, 2014.
- (7) Plastic waste & fly Ash Waste Management Seminar  
Organized by Regional Office M.P. Pollution Control Board, Rewa, MP, March, 06<sup>th</sup>, 2014.

### **Refresher Course /Winter School**

- (1) Science Academic Refresher Course in “Experimental Chemistry”.  
Sponsored by Indian Academy of Sciences Bangalore, Indian National Science Academy New Delhi and The National Academy of Sciences Allahabad in collaboration with Department of Chemistry, University of Pune, December 03 -16, 2012.
- (2) Refresher course in Chemistry titled “Recent Trends in Chemistry”  
Sponsored by UGC New Delhi, UGC Academic Staff College, Rani Durgavati Vishwavidyalaya Jabalpur, May 13- June 01, 2013.
- (3) Winter School on “Computational chemistry”  
Organized by UGC Networking Resource Centre, School of Chemistry, University Of Hyderabad  
December 02-14, 2013.

### **Supervisor/Co-Supervisor (PG Student)**

- (1) Some physio- chemical study of water quality nearby Sipat plant  
Dept. of Chemistry, GGD Central University, Bilaspur (C.G).
- (2) Assessment of physical properties of fly ash from Sipat power plant  
Dept. of Chemistry, GGD Central University, Bilaspur (C.G).
- (3) Week Interaction in chemical and Biological systems  
Dept. of Chemistry, GGD Central University, Bilaspur (C.G).
- (4) A review: Polymorph in Chemistry  
Dept. of Chemistry, GGD Central University, Bilaspur (C.G)
- (5) Antihistaminic and anti asthmatic agents  
Dept. of Chemistry, APS University, Rewa (M.P)
- (6) Non histeroidal anti inflammatory drugs  
Dept. of Chemistry, APS University, Rewa (M.P)

### **Extracurricular Activities:**

- (1) Flying squad member of A. P. S. University, Rewa (M.P.).
- (2) Member of decoding cell of A. P. S. University, Rewa (M.P.).
- (3) Member of confidential cell A. P. S. University, Rewa (M.P.).
- (4) Member of syllabus preparation committee for UG and PG of GGD University, Bilaspur (C.G.).
- (5) Paper setter and valuear for UG and PG of GGD Central University, Bilaspur (C.G.).
- (6) Invigilation for State and UGC based academic examinations.
- (7) Valuer for UG and PG of Govt. T.R.S. College, Rewa (M.P.)

### **Instrument Handled:**

Atomic absorption spectrophotometer (Parkin Elmer), UV-Vis spectrophotometer (Systronic 138 and 2201), pH meter (Systronic 128). Electronic Balance - (Alfoset), Incubater (Remi), Colorimeter (systronic), Water conductivity meter (Genetix), Centrifuge (Remi).

### **Computer/IT Exposure:**

Fundamental, Operating system, MS Windows, MS Office package, Internet Awareness.

**References:**

- (i) **Prof. D. S. Pandey**  
Faculty of Science, Dept. of Chemistry, Banarus Hindu University, Varanasi (U.P.)  
Email: [dsprewa@yahoo.com](mailto:dsprewa@yahoo.com), Mob +91 9450960400
  
- (ii) **Prof. R. N. Patel**  
Department of Chemistry, APS University, Rewa (MP)  
E-mail: [rnp64@ymail.com](mailto:rnp64@ymail.com), Mob. +91 9826630086

**Declaration:**

I hereby declare that the above-mentioned information's are true to best of my knowledge and belief.

Date: 17.04.2023

Place: Rewa, (M.P.) India

**(Dr. Sunil K Pandey)**