

# Curriculum Vitae

**Dr. Shobhana Ramteke**

PhD., NTA-UGC NET

M.Sc. (Gold medalist)

CRSI Life Member

National Young Scientist Awardee

International Young Scientist Awardee

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## Personal:

- Name** : Dr. Shobhana Ramteke
- Contact Address** : H.No-677 Janta Colony Near Sidharth Chowk Gudhiyari, Raipur Chhattisgarh
- Date of Birth** : 15/05/1989
- Category** : SC
- Language** : Hindi, English and Marathi

## Educational Qualifications:

Examination/ Degree	Board/University	Subject	Year
NTA-UGC NET	UGC, New Delhi	Environmental Science	2019
Ph. D.	Pt. Ravishankar Shukla University, Raipur	Environmental Science	2019
M. Sc.	Pt. Ravishankar Shukla University, Raipur	Environmental Science	2013
B.Sc.	Pt. Ravishankar Shukla University, Raipur	Chemistry, Botany, Zoology	2011
12 <sup>th</sup>	C.G Board, Raipur	Physics, Chemistry, Biology	2007
10 <sup>th</sup>	ICSE Board, Raipur	Science	2005

## Research Experience:

- Hands on training on Ground water analysis organized by Central Ground water Board, Raipur while studying M.Sc. from 2012-2013.
- Six years, during PhD and submitted thesis under the supervision of Prof. K. S. Patel to Pt. Ravishankar Shukla University, Raipur (C.G.) entitled “*Characterization and Source Apportionment of Ambient Organic Aerosols in Raipur Region*”.

### **Work Experience:**

Work as Scientist 'C' in **Integrated Regional Office, Ministry of Environment, Forest and Climate Change, Government of India, Raipur Chhattisgarh** at Aaryan Bhawan Atal Nagar, North Block, Nava Raipur Chhattisgarh and work allotted is as follows: -

- Go through the environmental monitoring reports for the state of Chhattisgarh
- Get acquainted with EIA notification 2006 and subsequent amendments
- Provisions of Environment Protection Air Water Acts and Waste Management Rules
- Shall prepare a plan of action for carrying out inspections under the guidance of concern Officer
- Review various Forest and Environmental Clearance six monthly reports

### **Teaching Experience:**

1.	One-year teaching experience in School of Studies in Environmental Science, Pt. Ravishankar Shukla University, Raipur (C.G.) in the session of 2013-2014 as a Guest Lecturer and nature of work was to conduct practical for M.Sc students, Teaching, paper setting & evaluation, supervisor (M.Sc IV <sup>th</sup> Sem)
2.	One-year teaching experience in School of Studies in Environmental Science, Pt. Ravishankar Shukla University, Raipur (C.G.) in the session of 2014-2015 as a Guest Lecturer and nature of work was to conduct practical for M.Sc students, Teaching, paper setting & evaluation, supervisor (M.Sc IV <sup>th</sup> Sem)
3.	One-year teaching experience in School of Studies in Environmental Science, Pt. Ravishankar Shukla University, Raipur (C.G.) in the session of 2017-2018 as a Research Scholar and nature of work was to conduct practical for M.Sc students, Teaching, paper setting & evaluation, supervisor (M.Sc IV <sup>th</sup> Sem)
4.	One-year teaching experience in School of Studies in Environmental Science, Pt. Ravishankar Shukla University, Raipur (C.G.) in the session of 2018-2019 as a Research Scholar and nature of work was to conduct practical for M.Sc students, Teaching, paper setting & evaluation, supervisor (M.Sc IV <sup>th</sup> Sem)
5.	One-year teaching experience in School of Studies in Environmental Science, Pt. Ravishankar Shukla University, Raipur (C.G.) in the session of 2019-2020 as a Guest Lecturer and nature of work was to conduct practical for M.Sc students, Teaching, paper setting & evaluation, supervisor (M.Sc IV <sup>th</sup> Sem)
6.	One-year teaching experience in School of Studies in Environmental Science, Pt. Ravishankar Shukla University, Raipur (C.G.) in the session of 2022-2023 as a Guest Lecturer and nature of work was to conduct practical for M.Sc students, Teaching, paper setting & evaluation, supervisor (M.Sc IV <sup>th</sup> Sem)
7.	One-year teaching experience in School of Studies in Environmental Science, Pt. Ravishankar Shukla University, Raipur (C.G.) in the session of 2023-2024 as a Guest Lecturer and nature of work was to conduct practical for M.Sc students, Teaching, paper setting & evaluation, supervisor (M.Sc IV <sup>th</sup> Sem)
8.	One-year teaching experience in School of Studies in Environmental Science, Pt. Ravishankar Shukla University, Raipur (C.G.) in the session of 2024-25 as a Guest Lecturer and nature of work was to conduct practical for M.Sc students, Teaching, paper setting & evaluation, supervisor (M.Sc IV <sup>th</sup> Sem)

### **Foreign Visit:**

**Quy Nhon, Vietnam** Presented research paper in the poster presentation in 3<sup>rd</sup> International Conference on Environmental Pollution, Restoration and Management at Quy Nhon, Vietnam, March 6-10, 2017.

### **Fellowship:**

- Got “**Rajiv Gandhi National Fellowship**” for SC/ST candidates from UGC New Delhi for the session of 2014-15.
- Got “**Chinese fellowship**” from Atmospheric Chemistry & Biogeochemistry, LAPC, Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing, China.

### **Project Work:**

- Project Work entitled “*Characterization of Arsenic and other Heavy Metals in Rhizospheric Soil and Plant*” has been submitted to the School of Studies in Environmental Science, Pt. Ravishankar Shukla University, Raipur, CG during M.Sc. in the year of 2013.

### **Supervisor:**

- Dissertation Supervisor of M.Sc Students in the following projects:-
  - Investigation on groundwater quality Sukma Bastar District Chhattisgarh.
  - Bacteriological Quality of a most popular Street Food (Panipuri) in Raipur City.
  - Heavy Metals Accumulation in Different Fruits and Vegetables.
  - Assessment of Industrial Noise Pollution in the Raipur Region.
  - Distribution and Monitoring of Indoor Particulate Matter PM<sub>10</sub>, PM<sub>10-2.5</sub>, CO and CO<sub>2</sub> during Burning of Dhoop Samples.
  - Emissions of Carbon Monoxide from Traffic Vehicles of Raipur Region.
  - Fourier Transform Infrared Spectroscopy (FTIR) Spectral Evaluation in *Chrysanthemum* Flowers Species.
  - Physico-Chemical Analysis of Different Soft Drinks Brands Available in Raipur, Chhattisgarh.
  - Assessment of Water-Soluble Ions in Indoor Pollution During Burning Wet Droop.
  - Studies on Groundwater pollution in Sukma Bastar district Chhattisgarh.
  - Estimation of Total Phenol, Tannin, and Flavonoid in *Chrysanthemum* flower.
  - Water-Soluble Ions Characterization in Incense Sticks Ash.

- Characterization of Water-Soluble Ions in Mosquito Coil Ash.
- Investigation Of Industrial Waste Water in Raipur Region.
- Contamination of Pond Water in Gariyaband Area.
- Water-Soluble Ions Detection in Indoor Pollution During Burning Dry Droop.

#### **Patent Granted:**

Dr. Meesala Sudhakar, Dr. Shobhana Ramteke, Mr. Jagmohan Sahu, Archana Markam, Mr. Pankaj K Bharti, Mrs. Monika Banjare, Miss. Khushabu Kashyap, Mr. Muddada S Prabha, Dr. Kopparthi Suribabu, Dr. Satish K kenar, Application No: 439804-001 filled on 07/12/2024 under the title “Device for detection of typhoid”.

#### **NEP 2020 participation:**

- ❖ Participated in the One Week Short Term Programme in Indian Knowledge Systems organized by UGC-MMTTC and Centre for Indian Knowledge Systems, Pt. R.S. U., Raipur in collaboration with Department of Education, Shivaji University, Kolhapur from 16/10/2024 to 22/10/2024 and obtained **Grade A**.
- ❖ Participated in the NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of UGC organized by MMTTC & Pt. RSU., Raipur C.G. from 21/08/2024 to 30/08/2024.

#### **Extra-Curricular Activities and Achievements:**

- Having knowledge of programming language C & C ++.
- Having diploma in Computer Programming & Application and Computer application.
- President in the Hindi & English society in college level.
- Certified with best expression in hunt for Miss & Mrs Raipur 2011.
- Certified with ‘B’ & ‘C’ certificate in NSS and Red Cross.
- Certified for attending National Adventure Camp in Jammu & Kashmir in 2011.

#### **Research Publications:**

S. No.	Paper title
1.	<b>Ramteke, S.,</b> Sahu, B. L., Patel, K.S, Pandey P.K, Yurdakul S, Martin-Ramos P, Ren, H., Fu, P. (2024) Characterization of Organic Aerosols in the Ambient Air of Raipur Central India: Distribution, Seasonal Variations, and Sources Apportionment. <i>Aerosol Science and Engineering</i> . <a href="https://doi.org/10.21203/rs.3.rs-4336888/v1">https://doi.org/10.21203/rs.3.rs-4336888/v1</a>
2.	Khageshwar Singh Patel, Piyush Kant Pandey, Sanjay Kumar Sharma, Bharat

	Lal Sahu, <b>Shobhana Ramteke</b> , Irena Wysocka, Sema Yurdakul, Simge Varo l, Pablo Martín -Ramos, Dalchand Jhariya, Mohammad Mahmudur Rahman, Prosun Bhattacharya (2024) Spatial and temporal variations of dug well water quality in Korb a basin, Chhattisgarh, India: Insights into hydrogeological characteristics. <i>Groundwater for Sustainable development</i> . ISSN No-2352-801X <a href="http://dx.doi.org/10.1016/j.gsd.2024.101359">http://dx.doi.org/10.1016/j.gsd.2024.101359</a>
3.	Khageshwar Singh Patel, Piyush Kant Pandey, Bharat Lal Sahu, <b>Shobhana Ramteke</b> , Irena Wysocka, Sema Yurdakul, Dalchand Jhariya, Pablo Martín - Ramos, Mohammad Mahmudur Rahman, Contamination and Sources of Surface Water in Korba Coal Basin, Chhattisgarh, India <i>Sustainable Water Resources Management</i> , 1-25 ISSN No-2363-5045 <a href="http://dx.doi.org/10.21203/rs.3.rs-4478468/v1">http://dx.doi.org/10.21203/rs.3.rs-4478468/v1</a>
4.	<b>Ramteke, S.</b> and Sahu, B.L. (2020) Novel Coronavirus disease 2019 (COVID-19) pandemic: Considerations for the biomedical waste sector in India. <i>Case Studies in Chemical and Environmental Engineering</i> , 01. <a href="https://doi.org/10.1016/j.cscee.2020.100029">https://doi.org/10.1016/j.cscee.2020.100029</a>
5.	<b>Ramteke, S.</b> , Sahu, B.L., Dahariya, N.S., Patel, K.S., Blazhev, B. and Matini, L. (2016) Heavy Metal Contamination of Leafy Vegetables. <i>Journal of Environmental Protection</i> , 7, 996-1004. <a href="http://dx.doi.org/10.4236/jep.2016.77088">http://dx.doi.org/10.4236/jep.2016.77088</a>
6.	<b>Ramteke, S.</b> , Patel, K. S., Sahu, B. L., Deb, M. K., Giri, B., Aggarwal, S. G., Ren, H., Fu, P. (2018) Spatial variation, distribution and sources impacts in urban organic aerosols. <i>Asian Journal of Chemistry</i> , 30, 1937-1943. <a href="https://doi.org/10.14233/ajchem.2018.21319">https://doi.org/10.14233/ajchem.2018.21319</a>
7.	<b>Ramteke, S.</b> , Verma, V., Chakradhari, S., Sahu, P.K., Sahu, B.L., Rajhans, K.P., Yadav, A. and Patel, K.S. (2016) Pit Lake Water Quality of Central India. <i>Journal of Geographic Information System</i> , 8, 28-39. <a href="http://dx.doi.org/10.4236/jgis.2016.81003">http://dx.doi.org/10.4236/jgis.2016.81003</a>
8.	<b>Ramteke, S.</b> , Patel, K.S., Nayak, Y., Jaiswal, N.K., Jain, V.K., Borgese, L., Gianoncelli, A. and Bontempi, E. (2015) Contamination of Heavy Metals and Nutrients in Sediment, Sludge and Sewage of India. <i>International Journal of Geosciences</i> , 6, 1179-1192. <a href="http://dx.doi.org/10.4236/ijg.2015.611093">http://dx.doi.org/10.4236/ijg.2015.611093</a>
9.	Jaiswal, N.K., <b>Ramteke, S.</b> , Patel, K.S., Saathoff, H., Nava, S., Lucarelli, F., Yubero, E. and Viana, M. (2018) Winter Particulate Pollution Over Central India (Raipur), <i>Journal of Hazardous, Toxic, and Radioactive waste</i> , 1-9. Doi: <a href="https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000444">10.1061/(ASCE)HZ.2153-5515.0000444</a>
10.	Sahu, B.L., <b>Ramteke, S.</b> , Rajhans, K.P., Patel, K.S., Wysocka, I. and Jaron, I. (2018) Contamination of pond with fluoride and heavy metals in central India.

	<i>Water Resources</i> , 45, 975-984.
11.	Choudhary, S., <b>Ramteke, S.</b> , Rajhans, K.P., Sahu, P.K., Chakradhari, S., Patel, K.S. and Matini, L. (2016) Assessment of Groundwater Quality in Central India. <i>Journal of Water Resource and Protection</i> , 8, 12-19. <a href="http://dx.doi.org/10.4236/jwarp.2016.81002">http://dx.doi.org/10.4236/jwarp.2016.81002</a>
12.	Sahu, D., <b>Ramteke, S.</b> , Dahariya, N.S., Sahu, B, J.L., Patel, K.S., Matini, L., Nicolas, J., Yubero, E. and Hoinkis. (2016) Assessment of Road Dust Contamination in India. <i>Atmospheric and Climate Sciences</i> , 6, 77-88. <a href="http://dx.doi.org/10.4236/acs.2016.61006">http://dx.doi.org/10.4236/acs.2016.61006</a>
13.	Patel, K.S., <b>Ramteke, S.</b> , Sahu, B.L., Nayak, Y., Sharma, S. and Hung, C.-C. (2015) Polychlorinated Biphenyls Contamination of Sludge in India. <i>American Journal of Analytical Chemistry</i> , 6, 867-877. <a href="http://dx.doi.org/10.4236/ajac.2015.611082">http://dx.doi.org/10.4236/ajac.2015.611082</a>
14.	Patel, K.S., <b>Ramteke, S.</b> , Naik, Y., Sahu, B.L., Sharma, S., Lintelmann, J. and Georg, M. (2015) Contamination of Environment with Polycyclic Aromatic Hydrocarbons in India. <i>Journal of Environmental Protection</i> , 6, 1268-1278. <a href="http://dx.doi.org/10.4236/jep.2015.611111">http://dx.doi.org/10.4236/jep.2015.611111</a>
15.	Dahariya, N.S., <b>Ramteke, S.</b> , Sahu, B.L. and Patel, K.S. (2016) Urban Groundwater Quality in India. <i>Journal of Environmental Protection</i> , 7, 961-971. <a href="http://dx.doi.org/10.4236/jep.2016.76085">http://dx.doi.org/10.4236/jep.2016.76085</a>
16.	Sharma, R., <b>Ramteke, S.</b> , Patel, K.S., Kumar, S., Sarangi, B., Agrawal, S.G., Lata, L. and Milosh, H. (2015) Contamination of Lead and Mercury in Coal Basin of India. <i>Journal of Environmental Protection</i> , 6, 1430-1441. <a href="http://dx.doi.org/10.4236/jep.2015.612124">http://dx.doi.org/10.4236/jep.2015.612124</a>
17.	Sharma, R., Yadav, A., <b>Ramteke, S.</b> , Patel. K. S., Lata, L., Milosh, H., Corns, W.T. and Ramos, P.M. (2018) Heavy Metal Pollution in Surface Soil of Korba Basin, India. <i>Journal of Hazardous, Toxic, and Radioactive waste</i> , 23, 05019004. <a href="https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29HZ.2153-5515.0000460">https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29HZ.2153-5515.0000460</a>
18.	Patel, K.S., Sahu, B.L., <b>Ramteke, S.</b> , Jaiswal, N.K., Borgese, L., Gianoncelli, A. and Bontempi, E. (2015) Contamination of Arsenic and Other Heavy Metals in Rhizospheric Soil. <i>American Journal of Analytical Chemistry</i> , 6, 822-829. <a href="http://dx.doi.org/10.4236/ajac.2015.610078">http://dx.doi.org/10.4236/ajac.2015.610078</a>
19.	Sahu, B.L., Banjare, G.R., <b>Ramteke, S.</b> , Patel, K.S. and Martini, L. (2016) Fluoride Contamination of Groundwater and Toxicities in Dongargaon Block, Chhattisgarh, India. <i>Exposure and Health</i> , 9, 143-156. <a href="https://doi.org/10.1007/s12403-016-0229-3">Doi:10.1007/s12403-016-0229-3</a>

20.	Yadav, A., Rajhans, K.P., <b>Ramteke, S.</b> , Sahu, B.L., Patel, K.S. and Blazhev, B. (2016) Contamination of Industrial Waste Water in Central India. <i>Journal of Environmental Protection</i> , 7, 72-81. <a href="http://dx.doi.org/10.4236/jep.2016.71007">http://dx.doi.org/10.4236/jep.2016.71007</a>
21.	Jaiswal, N.K., <b>Ramteke, S.</b> , Chakradhari, S., Patel, K.S., Saathoff, H., Karnae, S. and John, K. (2018) Distribution, Sources and Hazard of Ambient Carbonaceous Particulates in Central India. <i>J. Hazard. Toxic Radioact. Waste</i> , 1-15. <a href="http://dx.doi.org/10.1061/(ASCE)HZ.2153-5515.0000447">10.1061/(ASCE)HZ.2153-5515.0000447</a>
22.	Patel, K.S., Chikhlekar, S., <b>Ramteke, S.</b> , Sahu, B.L., Dahariya, N.S. and Sharma, R. (2015) Micronutrient Status in Soil of Central India. <i>American Journal of Plant Sciences</i> , 6, 3025-3037. <a href="http://dx.doi.org/10.4236/ajps.2015.619297">http://dx.doi.org/10.4236/ajps.2015.619297</a>
23.	Patel, K.S., Sahu, D., <b>Ramteke, S.</b> , Blazhev, B., Matini, L., Yubero, E. and Hoinkis, J. (2015) Transport Pollution in India. <i>American Journal of Analytical Chemistry</i> , 6, 757-766. <a href="http://dx.doi.org/10.4236/ajac.2015.69072">http://dx.doi.org/10.4236/ajac.2015.69072</a>
24.	Patel, K.S., Gupta, S., <b>Ramteke, S.</b> , Rajhans, K.P., Nava, S. and Lucarelli, F. (2016) Silica Particulate Pollution in Central India. <i>Journal of Environmental Protection</i> , 7, 170-175. <a href="http://dx.doi.org/10.4236/jep.2016.72015">http://dx.doi.org/10.4236/jep.2016.72015</a>
25.	Sahu, B.L., Rajhans, K.P., <b>Ramteke, S.</b> , Patel, K.S., Wysocka, I. and Jaron, I. (2016) Geochemistry of Rare Earth Elements in Sediment of Central India. <i>Journal of Environmental Protection</i> , 7, 705-714. <a href="http://dx.doi.org/10.4236/jep.2016.75063">http://dx.doi.org/10.4236/jep.2016.75063</a>
26.	Patel, K.S., Sahu, B.L., <b>Ramteke, S.</b> and Bontempi, E. (2016) Contamination of Paddy Soil and Rice with Arsenic. <i>Journal of Environmental Protection</i> , 7, 689-698. <a href="http://dx.doi.org/10.4236/jep.2016.75061">http://dx.doi.org/10.4236/jep.2016.75061</a>
27.	Dahariya, N.S., Rajhans, K.P., Yadav, A., <b>Ramteke, S.</b> , Sahu, B.L. and Patel, K.S. (2015) Fluoride Contamination of Groundwater and Health Hazard in Central India. <i>Journal of Water Resource and Protection</i> , 7, 1416-1428. <a href="http://dx.doi.org/10.4236/jwarp.2015.717115">http://dx.doi.org/10.4236/jwarp.2015.717115</a>
28.	Patel, K.S., Yadav, A., Rajhans, K.P., <b>Ramteke, S.</b> , Sharma, R., Wysocka, I. and Jaron, I. (2016) Exposure of Fluoride in Coal Basin. <i>International Journal of Clean Coal and Energy</i> , 5, 1-12. <a href="http://dx.doi.org/10.4236/ijcce.2016.51001">http://dx.doi.org/10.4236/ijcce.2016.51001</a>
29.	Patel, K.S., Sahu, D., Dahariya, N.S., Sahu, B.L., <b>Ramteke, S.</b> , Blazhev, B., Matini, L., Yubero, E. and Hoinkis, J. (2015) Contamination of Water, Dust, Soil, Rock and Urine with Fluoride in Central India. <i>Journal of Environmental Protection</i> , 6, 1347-1359. <a href="http://dx.doi.org/10.4236/jep.2015.612117">http://dx.doi.org/10.4236/jep.2015.612117</a>
30.	Yadav, A., Sahu, P.K., Chakradhari, S., Rajhans, K.P., <b>Ramteke, S.</b> , Dahariya, N.S., Agnihotri, G. and Patel, K.S. (2016) Urban Pond Water Contamination in



	India. <i>Journal of Environmental Protection</i> , 7, 52-59. <a href="http://dx.doi.org/10.4236/jep.2016.71005">http://dx.doi.org/10.4236/jep.2016.71005</a>
31.	Patel, K.S., Dahariya, N.S., Chakradhari, S., Sahu, P.K., Rajhans, K.P., <b>Ramteke, S.</b> , Lata, L. and Milosh, H. (2015) Sewage Pollution in Central India. <i>American Journal of Analytical Chemistry</i> , 6, 787-796. <a href="http://dx.doi.org/10.4236/ajac.2015.610075">http://dx.doi.org/10.4236/ajac.2015.610075</a>
32.	Yadav, A., Sahu, Y.K., Rajhans, K.P., Sahu, P.K., Chakradhari, S., Sahu, B.L., <b>Ramteke, S.</b> and Patel, K.S. (2016) Fluoride Contamination of Groundwater and Skeleton Fluorosis in Central India. <i>Journal of Environmental Protection</i> , 7, 784-792. <a href="http://dx.doi.org/10.4236/jep.2016.76071">http://dx.doi.org/10.4236/jep.2016.76071</a>
33.	Sahu, D.K., Bhatt, C., Rai, M.K., Goswami, J., Sahu, A.K., Singh, T.V., <b>Ramteke, S.</b> , Nirmal, M., Wani, K. and Mundeja, P. (2020) Determination of fenpyroximate Acaricide in vegetables, soil and water samples using UV-Visible spectroscopy. <i>Asian journal of chemistry</i> , 32(8):1991-1995. DOI: <a href="https://doi.org/10.14233/ajchem.2020.22766">10.14233/ajchem.2020.22766</a>
34.	<b>S. Ramteke</b> , and B. L. Sahu, (2020) Determination of Stool Ash samples in Korba Area. <i>Chhattisgarh Journal of Science and Technology</i> , ISSN: 0973-7219, 17 (2), 35-45 <a href="https://new.ggu.ac.in/">https://new.ggu.ac.in/</a>
35.	<b>Shobhana Ramteke</b> and Bharat Lal Sahu, (2022) Distribution, Water Soluble ions, Monitoring of indoor particulate matter PM <sub>10</sub> , PM <sub>10-2.5</sub> , CO and CO <sub>2</sub> during burning of Dhoop samples. <i>SSRG International Journal of Applied Chemistry</i> , 9:3, 5-13 ISSN: 2393-9133, <a href="https://doi.org/10.14445/23939133/IJAC-V9I3P102">https://doi.org/10.14445/23939133/IJAC-V9I3P102</a>
36.	A.K. Sahu, B.L. Sahu, <b>S. Ramteke</b> , Y. K. Sahu, D.K. Sahu, M. K. Banjare, M.K. Rai and J. Rai (2023) Detection of Azoxystrobin in Environmental samples by using FTIR spectroscopic methods. <i>Eco. Env. &amp; Cons</i> : 2023; pp. (S12-S19), ISSN 0971-765X
37.	<b>Shobhana Ramteke</b> , Bharat Lal Sahu, Sandhya Savita, Bijnaneswar Mondal, Khageshwar Singh Patel, Hong Ren, Pingqing Fu (2022) Size-Segregation and Distribution of organic aerosol in different Industrial Area of Raipur Region. <i>Journal of Geointerface</i> , Vol 1, No 1, pp. 103-126.
38.	<b>Shobhana Ramteke</b> and Bharat Lal Sahu, (2022) Determination of Carbon monoxide (CO) concentration and Emission from various Traffic Vehicles of Raipur Region. <i>International Journal of Advanced Scientific Research</i> , 7:2, 85-98, ISSN:2456-0421.
39.	Bhanupriya Sahu, <b>Dr. Shobhana Ramteke</b> , Bharat Lal Sahu (2024) Determination of Physico-chemical analysis of different soft drinks brands in



	Raipur city. <i>International Journal for innovative Research in Multidisciplinary Field</i> . ISSN: 2455-0620, Volume-10, Issue-4, pp-161-169. <a href="https://doi.org/10.2015/IJRCS/202404026">DOIs:10.2015/IJRCS/202404026</a>
40.	<b>Shobhana Ramteke</b> and Bharat Lal Sahu, (2022) Hydroxychloroquine or Chloroquine as accessible weapon to COVID-19 pandemic. <i>International Journal of Innovative Research in Science and Engineering Studies</i> . ISSN: 2583-1658, Volume: 2 Issue: 6 pp 34-39. <a href="http://www.ijrses.com">www.ijrses.com</a>
41.	<b>Shobhana Ramteke</b> and Bharat Lal Sahu (2022) Assessment of Industrial Noise Pollution in the Raipur Region. <i>International Journal of Advanced Educational Research</i> , 7:2, 165-176. ISSN:2455-6157
42.	<b>Dr. Shobhana Ramteke</b> , Chandrakiran Gangber, Bharat Lal Sahu (2024) Phytochemical Estimation of <i>Chrysanthemum</i> flowers by FTIR Spectroscopy. <i>International Journal for innovative Research in Multidisciplinary Field</i> . ISSN: 2455-0620, Volume 10, Issue 1, pp-35-41. <a href="https://doi.org/10.2015/IJRCS/202401006">DOIs:10.2015/IJRCS/202401006</a>
43.	<b>Dr. Shobhana Ramteke</b> , Namrata Sahu, Bharat Lal Sahu (2024) FTIR Estimation and heavy metal accumulation in different vegetables and fruits. <i>International Journal for innovative Research in Multidisciplinary Field</i> . ISSN: 2455-0620, Volume-10, Issue-1, pp-103-110. <a href="https://doi.org/10.2015/IJRCS/202401016">DOIs:10.2015/IJRCS/202401016</a>
44.	<b>Shobhana Ramteke</b> and Bharat Lal Sahu (2023) Disposable face/cloth masks during COVID-19 pandemic: a precursor for the synthesis of valuable bioproducts. <i>Sustainability, Agri, Food and Environmental Research</i> , ISSN: 0719-3726.
45.	<b>Shobhana Ramteke</b> , Sandhya Savita and Bharat Lal Sahu (2022) Fluoride Contamination in Roof Dust of Korba City. <i>Chhattisgarh Journal of Science and Technology</i> , ISSN: 0973-7219, 19 (4), 80-82 <a href="https://new.ggu.ac.in/">https://new.ggu.ac.in/</a>
46.	<b>Shobhana Ramteke</b> , Sandhya Savita, Bijnaneswar Mondal and Bharat Lal Sahu (2022) Characterization of Fluoride in Different Mosquito Coil Ash Samples <i>Chhattisgarh Journal of Science and Technology</i> ISSN: 0973-7219, Volume 19, Issue 1, 2022, pp.- 1-4
47.	Omkar Nirmalkar, <b>Shobhana Ramteke</b> , Bijnaneswar Mondal and Bharat Lal Sahu (2022) Assessment of Fluoride Level in the Groundwater of Dongargaon City, <i>Chhattisgarh Journal of Science and Technology</i> ISSN: 0973-7219, Volume 19, Issue 2, 2022, pp.- 151-156 <a href="https://new.ggu.ac.in/">https://new.ggu.ac.in/</a>
48.	Rajni Banjare, <b>Shobhana Ramteke</b> and Bharat Lal Sahu (2021) Assessment of Fluoride Level in the Groundwater of Ambagarh Chowki Block <i>Chhattisgarh</i>

	<i>Journal of Science and Technology</i> ISSN: 0973-7219, Volume 18, Issue 4, 2021, pp.- 160-165. <a href="https://new.ggu.ac.in/">https://new.ggu.ac.in/</a>
49.	Yogesh Bhaskar Tanwer, <b>Shobhana Ramteke</b> , Bijnaneswar Mondal and Bharat Lal Sahu (2021) Assessment Of Fluoride Level In The Groundwater Of Dongargarh City. <i>Chhattisgarh Journal of Science and Technology</i> ISSN: 0973-7219, Volume 18 , Issue 1 , 2021, pp.- 47-51. <a href="https://new.ggu.ac.in/">https://new.ggu.ac.in/</a>
50.	Lata Sahu, <b>Shobhana Ramteke</b> , Bijnaneswar Mondal and Bharat Lal Sahu (2021) Assessment of Fluoride Level in the Ground water of Rajnandgaon City. <i>Chhattisgarh Journal of Science and Technology</i> , ISSN: 0973-7219, Volume 18 , Issue 2, 2021, pp.- 5-10. <a href="https://new.ggu.ac.in/">https://new.ggu.ac.in/</a>
51.	<b>Shobhana Ramteke</b> and Bharat Lal Sahu (2020) Total Phenolic and Flavonoid Content in various Dahlia Plant Species. <i>Chhattisgarh Journal of Science and Technology</i> , ISSN: 0973-7219, Volume 17, Issue 3, 2020, pp.- 58-63. <a href="https://new.ggu.ac.in/">https://new.ggu.ac.in/</a>
52.	<b>Shobhana Ramteke</b> and Bharat Lal Sahu (2020) Fluoride Contamination in Soil Samples of Korba Region. <i>Chhattisgarh Journal of Science and Technology</i> ISSN: 0973-7219, Volume 17, Issue 2, 2020, pp.- 51-54 <a href="https://new.ggu.ac.in/">https://new.ggu.ac.in/</a>
53.	<b>Dr. Shobhana Ramteke</b> and Dr. Lubhawani Tripathi (2024) The Effects of Active Learning and Their Approach on Students' Engagement. <i>International Journal of Research Culture Society</i> . ISSN: 2456-6683, Volume 8, Issue 1, pp 12-19. <a href="https://doi.org/10.2017/IJRCS/202401003">DOIs:10.2017/IJRCS/202401003</a>
54.	Sudheer Bhoi, Chunendra Kashyap, Sagar Kumar Rajak, <b>Shobhana Ramteke</b> (2024) Determination of Total Dissolved Solids (TDS) of RO Purified Drinking Water Samples in Raipur, <i>Journal of Ravishankar University Part-B</i> , 37(1), 188-194. <a href="https://doi.org/10.52228/JRUB.2024-37-1-11">Doi:10.52228/JRUB.2024-37-1-11</a>
55.	<b>Shobhana Ramteke</b> , Bhaskar Sharma, Bijnaneswar Mondal, Bharat Lal Sahu (2019) Determination of Stool Ash samples in Korba Area. <i>Chhattisgarh Journal of Science and Technology</i> , ISSN: 0973-7219, 16 (4), 1-3 <a href="https://new.ggu.ac.in/">https://new.ggu.ac.in/</a>
56.	<b>Shobhana Ramteke</b> , Bijnaneswar Mondal, Bhaskar Sharma, Bharat Lal Sahu (2020) Distribution and Size Segregation of PM <sub>10</sub> in Mosquito Coils. <i>Chhattisgarh Journal of Science and Technology</i> , ISSN: 0973-7219, 17 (1), 49-53 <a href="https://new.ggu.ac.in/">https://new.ggu.ac.in/</a>
57.	Aishwariya Shukla, <b>Shobhana Ramteke</b> , Bharat Lal Sahu, Manas Kanti Deb

	(2024) Fourier Transform Infrared Spectroscopy (FTIR) Spectral evaluation in Chrysanthemum flower species. <i>Journal of Ravishankar University, Part-A</i> . ISSN: 0970-5910, 37, 39-45. <a href="https://doi.org/10.52228/JRUB.2024-37-2-5">https://doi.org/10.52228/JRUB.2024-37-2-5</a>
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### **Book Chapter:**

1.	<b>Shobhana Ramteke</b> and Bharat Lal Sahu, (2020) COVID-19 General Introduction and Positive Impact on Indian air quality., <i>Recent trends in Global COVID-19 Pandemic</i> , Shriyanshi Prakashan. 105-113. ISBN: 978-93-81247-84-6
2.	<b>Shobhana Ramteke</b> and Bharat Lal Sahu (2020) Coronavirus disease COVID-19: An Investigation on mechanisms of ACE-2 on severe acute respiratory syndrome SARS severity and viral spesis., <i>The Outbreak of COVID-19 Disease and its impact on Global Health</i> , Shriyanshi Prakashan, 269-279, ISBN: 978-93-81247-44-0
3.	R. Sharma, A. Yadav, <b>S. Ramteke</b> , S. Chakradhari, K.S. Patel, L. Lata, H. Milosh, P. Li, J. Allen and W. Corns. (2017) Contamination of arsenic and heavy metals in coal exploitation area. <i>Environmental Arsenic in a Changing World-Zhu, Guo, Bhattacharya, ahmad, Bundschuh&amp; Naidu (Eds)</i> 381-385. ISBN 978-1-138-48609-6
4.	<b>Shobhana Ramteke</b> , Uday Pratap Azad and Bharat Lal Sahu., Airborne transmission Recognition and consideration of SARS-COV2., <i>Physical and biological Sciences</i> , 264-276, ISBN: 978-81-956345-9-0
5.	<b>Shobhana Ramteke</b> and Bharat Lal Sahu (2020) A Brief Overview of SARS-CoV2, SARS-CoV and MERS-CoV Coronaviruses Outbreak to Global Health. <i>Coronavirus Disease (covid-19):A Scoping Review</i> , Kripa Drishti Publications. ISBN:978-81-946587-9-5.
6.	Nandita Singh, Uday Pratap Azad, Ashish Kumar Singh, Sunil Kumar Singh, Bharat Lal Sahu, <b>Shobhana Ramteke</b> , Divya Pratap Singh (2024) Carbon-Based Nanomaterials: Carbon Nanotubes and Graphene for Energy Storage Applications. CRC Press. ISBN: 9781003481157, 23. <a href="https://www.taylorfrancis.com/chapters/edit/10.1201/9781003481157-7/carbon-based-nanomaterials-nandita-singh-uday-pratap-azad-ashish-kumar-singh-sunil-kumar-singh-bharat-lal-sahu-shobhana-ramteke-divya-pratap-singh">https://www.taylorfrancis.com/chapters/edit/10.1201/9781003481157-7/carbon-based-nanomaterials-nandita-singh-uday-pratap-azad-ashish-kumar-singh-sunil-kumar-singh-bharat-lal-sahu-shobhana-ramteke-divya-pratap-singh</a>
7.	<b>Shobhana Ramteke</b> and Bharat Lal Sahu (2024) A critical review on the role of hydrogen as a clean fuel source. <i>Futuristic Trends in Chemical Material Sciences &amp; Nano Technology</i> . Volume 3, Book 6, 101-114. ISBN:978-93-5747-824-3 <a href="https://www.doi.org/10.58532/V3BJCSP2CH">https://www.doi.org/10.58532/V3BJCSP2CH</a>
8.	<b>Shobhana Ramteke</b> and Bharat Lal Sahu (2024) Biohydrogen: A review of the production, storage, use and environmental effects. (Submitted)

### **Papers in Conferences:**

1	International Conference on Vedic Science and its Applications (ICVSA-2010) at Pt. Ravishankar Shukla University, Raipur, Nov 20-21, 2010.
2	Participated in the International Symposium on Novel Approaches to Air Quality Management and Improvement in India with DRI, Reno, NV, USA hosted by Pt. Ravishankar Shukla University, Raipur, Sept 5-7, 2011.
3	<b>S. Ramteke</b> and K. S. Patel, Characterization of Arsenic and Other Heavy Metals in Rhizospheric Soil and Plants in National Science Day held at SOS in Chemistry, Pt. Ravishankar Shukla University, Raipur, Feb 28, 2014.
4	<b>S. Ramteke</b> and K. S. Patel, Heavy Metals Contamination of Sediment in Central India poster presented in 103 <sup>rd</sup> Indian Science Congress held at university of Mysore, Jan 3 to 7, 2016.
5	<b>S. Ramteke</b> and K. S. Patel, Heavy Metal Contamination of Sediment in Raipur City Chhattisgarh on One Day Symposium on Science, Technology and Humanity, held at SOS in Chemistry, Pt. Ravishankar Shukla University, Raipur CG, Mar 10, 2016.
6	<b>S. Ramteke</b> and K. S. Patel, Arsenic A Major Problem in Central India in the National Science Day held at SOS in Chemistry, Pt. Ravishankar Shukla University, Raipur, Mar 12, 2016.
7	<b>S. Ramteke</b> , Contamination of Road Dust in Central India poster presentation in the 53 <sup>rd</sup> Annual Convention of Chemists (INDIAN CHEMICAL SOCIETY) organized at GITAM University, Visakhapatnam, Andhra Pradesh, on Dec 27-29, 2016. <b>Young Scientist Award</b>
8	<b>S. Ramteke</b> and K. S. Patel, Arsenic Pollution in Ambagarh Chouki Block Chhattisgarh Oral presentation on National Conference on Soil Quality and Public Health (SQPH) organized by the Department of Chemistry at Govt Digvijay Autonomous P.G College Rajnandgaon, Jan,17-18, 2017.
9	<b>S. Ramteke</b> and K. S. Patel, Arsenic and Other Heavy Metals Pollution in Ambagarh Chowki Tehsil, Chhattisgarh Poster presentation in 1 <sup>st</sup> ASIAN CONFERENCE on Water and Land Management for Food and Livelihood Security WLMFLS organized by Indira Gandhi Agricultural University, Raipur Jan 20-22, 2017.
10	<b>S. Ramteke</b> and K. S. Patel. Heavy Metals Contamination of Road Dust in Central India Poster presentation on National Seminar on Advances in Environmental Science and Technology organized by Department of Botany Govt Digvijay Autonomous P.G College Rajnandgaon, Jan 23-24, 2017.
11	<b>S. Ramteke</b> , B. L. Sahu and K. S. Patel. Investigation of Arsenic Concentration in Water and Geological Samples of Ambagarh Chowki Tehsil, Chhattisgarh, India Poster presentation in 20 <sup>th</sup> CRSI National Symposium & 11 <sup>th</sup> CRSI-RSC Symposium in Chemistry organized by Department of Chemistry Gauhati, Assam, India, Feb 3-6, 2017.
12	<b>S. Ramteke</b> . Characterization of Aerosols from Indoor Environment with Mosquito Coils and Incense Sticks Burning oral presentation in 15 <sup>th</sup> Chhattisgarh Young Scientists Congress organized by Chhattisgarh Council of Science & Technology

	Raipur and Chhattisgarh Swami Vivekanand Technical University Bhilai CG, Feb 28 <sup>th</sup> - Mar 1 <sup>st</sup> , 2017.
13	<b>S. Ramteke</b> and K. S. Patel. Characterization and Size Segregation of Aerosols from Indoor Environment with Mosquito Coils and Incense Sticks Burning poster presentation in National seminar on Innovative research in Biological and Chemical Sciences organized by MATS university, Mar 4 <sup>th</sup> , 2017.
14	<b>S. Ramteke</b> and K. S. Patel, “Distribution and Segregation of Respirable Particulate Matter in Ambient Air of Raipur City, Central India” poster presentation in 3 <sup>rd</sup> International Conference on Environmental Pollution, Restoration and Management at Quy Nhon, Vietnam, March 6-10, 2017.
15	<b>S. Ramteke</b> and K. S. Patel Size Segregation and Distribution of Respirable Particulate Matter in Ambient Air of Raipur City, Central India poster presentation in UGC-SAP DRC-I National Conference on Advances in Environmental and Chemical Sciences organized by School of studies in Chemistry, Pt RSU Raipur CG, Mar 17 <sup>th</sup> -18 <sup>th</sup> , 2017.
16	<b>S. Ramteke</b> and K. S. Patel Characterization of Mosquito Coils and Incense Sticks Burning aerosols oral presentation in 1 <sup>st</sup> North Science Congress 2018 and International Conference on Science and Technology for sustainable future organized by BBA University, Lucknow, Jan 10 <sup>th</sup> -11 <sup>th</sup> , 2018.
17	<b>S. Ramteke</b> and K. S. Patel. Size Segregation and Seasonal Variation of PM <sub>10</sub> and PM <sub>2.5</sub> in Ambient air of Raipur City, Central India poster presentation in 22 <sup>nd</sup> CRSI NSC 2018 organized by School of studies in Chemistry, Pt RSU Raipur CG, Feb 2 <sup>th</sup> -4 <sup>th</sup> , 2018.
18	<b>S. Ramteke.</b> Health Implications due to Mosquito Coils and Incense Sticks Burning oral presentation in 15 <sup>th</sup> Chhattisgarh Young Scientists Congress organized by Chhattisgarh Council of Science & Technology Raipur and Durg University, Durg CG, Feb 27 <sup>th</sup> - Feb <sup>th</sup> 28, 2018.
19	<b>S. Ramteke</b> and K. S. Patel. Seasonal Variations and Size Segregation of Water Soluble Ions in PM <sub>10</sub> of Raipur City, Central India poster presentation in UGC-SAP DRC-II National Conference on Advances in Environmental and Chemical Sciences organized by School of studies in Chemistry, Pt RSU Raipur CG, Mar 22 <sup>nd</sup> -23 <sup>rd</sup> , 2018.
20	<b>S. Ramteke.</b> Size Segregation, Sources and Distribution of PM <sub>10</sub> in Mosquito Coils and Incense Sticks Emissions and their health impacts oral presentation in 17 <sup>th</sup> Chhattisgarh Young Scientists Congress organized by Chhattisgarh Council of Science & Technology Raipur and Durg University, Durg CG, Feb <sup>th</sup> 28-1 <sup>st</sup> Mar, 2019.
21	<b>S. Ramteke</b> and K. S. Patel. Distribution, Size Segregation, and Sources of PM <sub>10</sub> in Mosquito Coils and Incense Sticks Emissions and their health impacts oral presentation in, 56 <sup>th</sup> Annual Convention of Chemists (INDIAN CHEMICAL SOCIETY) & International Conference on Recent Trends in Chemical Sciences organized at School of Studies in Chemistry, Pt. R. S. U., Raipur CG, Nov <sup>th</sup> 14 <sup>th</sup> – 16 <sup>th</sup> 2019. <b>Young Scientist Award</b>

22	<b>S. Ramteke</b> and K. S. Patel. PM <sub>10</sub> Distribution, Size Segregation, and Sources of Incense Sticks and Mosquito Coils Emissions and their health impacts oral presentation in XXXVIII Annual Conference Indian Council of Chemists in Jaipur National University, Jaipur Rajasthan, Dec 26 <sup>th</sup> – 28 <sup>th</sup> 2019. <b>Women Young Scientist Award</b>
23	<b>S. Ramteke.</b> Distribution, Size Segregation, Sources of Indoor Particulate Matter during burning of mosquito coils and Incense sticks emissions and their health Impacts. Presented research paper in 25 <sup>th</sup> ETH conference on Combustion generated nanoparticles Online conference, Zurich Switzerland, June 21 <sup>st</sup> –23 <sup>rd</sup> , 2022.
24	<b>S. Ramteke.</b> Incense Sticks and Mosquito Coils Emissions, sources, distribution and their Health Impacts. Oral Presented research paper in National Seminar on Recent Advancements in Science and Technology (RAST) organized by MATS University, Dec 7 <sup>th</sup> -8 <sup>th</sup> , 2022. <b>Best Research Paper in Oral Presentation Award (Winner)</b>
25.	<b>S. Ramteke.</b> Incense Sticks and Mosquito Coils Emissions, sources, distribution and their Health Impacts. Oral Presented research paper in National Conference on Environment and Sustainable development (NCESD-NSD-2023) jointly organized by School of Studies in Environmental Science, Pt. RSU and CCOST, Raipur CG Mar 28 <sup>th</sup> -29 <sup>th</sup> , 2023. <b>Best Oral Presentation Award (Winner)</b>
26.	<b>S. Ramteke.</b> Size Segregation, Sources and Distribution of PM <sub>10</sub> in Mosquito Coils and Incense Sticks Emissions and their health impacts oral presentation in 18 <sup>th</sup> Chhattisgarh Young Scientists Congress organized by Chhattisgarh Council of Science & Technology Raipur and Pt. Ravishankar Shukla University, 3-4th May, 2023.
27.	<b>S. Ramteke.</b> Size Segregation, Sources and Distribution of PM <sub>10</sub> in Mosquito Coils and Incense Sticks Emissions and their health implications oral presentation in 19 <sup>th</sup> Chhattisgarh Young Scientists Congress organized by Chhattisgarh Council of Science & Technology Raipur and NIT, 26-27 Feb 2024.

#### **Workshop/Symposia:**

S.No.	Title	Organization	Year
1.	Five days International E-Workshop on “Principles and Applications of analytical Instruments of Organic/inorganic molecules”	Department of Chemistry & Department of Botany, Govt. R. R. M. P.G. College, Surajpur C.G. and Govt. Shivnath Science College, Rajnandgaon CG	Aug 25-29, 2020
2.	Energy technology and sensor systems (TENSYS 2020)	IITDM, Chennai, India and university Malaya (UN)Malaysia	July 28-30, 2020
2.	Environmental Risk assessment Considerations for Biologically Active Chemicals in The Third International Conference on Environmental Pollution, Restoration and Management	ICISE, Quy Nhon, Vietnam	Mar 6-10, 2017
3.	Second International Workshop on Hadronic Chemistry, Physics and Mathematics	Department of Chemistry Rashtrasant Tukadoji Maharaj Nagpur University	Nov 24-29, 2014
4.	Traditional Water Conservation System & Its Importance in Urban	INTACH Raipur and SOS in Geology & WRM	Aug 22-24, 2014



	Perspective		
5.	Prospection and Sustainable Use of Medicinal Plants of Chhattisgarh organized	National Center for Natural Resources (NCNR)	Sept 10-11, 2012
6.	UGC-SPONSORED Workshop: How to participate TOEFL and GRE Conferences, Symposia, Seminar, Workshop and Training Courses	School of Studies in Chemistry, Pt. Ravishankar Shukla University Raipur,	Mar 1-2, 2012
7.	One day training workshop for awareness against drug abuse substances & alcoholism	Sankalp Sanskritik Samiti Raipur CG	5 Dec, 2010

#### **Awards/Prizes:**

S.No.	Award	Organization	Year
1.	Gold Medal ❖ Awarded with Late Shri Bela Kalipada Deb Memorial Gold medal for securing highest marks in M.Sc ❖ Awarded with Pt. Ravishankar Shukla University Gold medal for securing 1 <sup>st</sup> position in the merit list	School of Studies in Environmental Science, Pt. Ravishankar Shukla University, Raipur CG	2013
2.	Rajiv Gandhi National Fellowship for SC/ST candidate	University Grant Commission, New Delhi	2014
2.	Chinese Fellowship	Chinese Academy of Science, Beijing, China	2015
3.	Professor V. Pandu Ranga Rao Young Scientist Award	Indian Chemical Society held at GITAM University, Visakhapatnam, AP	2016
4.	Felicitated by Pt. Ravishankar Shukla University, Raipur CG for Winning National Young Scientist Award 2016.	Pt. Ravishankar Shukla University, Raipur CG	2017
5.	Felicitated by School of Studies in Environmental Science, for Winning National Young Scientist Award 2016.	Pt. Ravishankar Shukla University, Raipur CG	2017
6.	Upadhyayula Annapurna and Satyanarayana Memorial Young Scientist Award	Indian Chemical Society held at Pt. Ravishankar Shukla University,	2019



		Raipur CG	
7.	Women Scientist Award	Indian Council of Chemists in Jaipur National University, Jaipur Rajasthan	2020
8.	Best Research Award Oral Presentation	National Seminar on Recent Advancements in Science and Technology (RAST), MATS University	2022
9.	Best Oral Presentation	National Conference on Environment and Sustainable development	2023

**Declaration:**

I hereby declare that what so ever information is given is true and complete according to my knowledge.

**Date:**

**Dr. Shobhana Ramteke**