

## CV of Dr. S. R. Samadder

Email ID: [sukh\\_samadder@yahoo.co.in](mailto:sukh_samadder@yahoo.co.in)

Contact No. Mobile: (+91) (9471191823)

---

### CONTACT ADDRESS:

**Dr. Sukha Ranjan Samadder**

Assistant Professor

Department of Environmental Science & Engineering

Indian School of Mines, Dhanbad

Pin-826004

---

Date of Birth: 2<sup>nd</sup> January 1976

Nationality: Indian

### EDUCATIONAL QUALIFICATIONS:

Degree / Examination	University / Institution	From and To	Specialization	Division / Class	% of Marks
Postdoctoral Studies	University College Dublin, Ireland	Jan, 2008 to Jan, 2010	Environmental Spatial Analysis	----	----
Ph. D	IIT Kharagpur	July, 2001 to June, 2005	Environmental Engineering	----	----
M. Tech.	IIT Roorkee	July, 1999 to Feb, 2001	Environmental Engineering	1 <sup>st</sup>	CGPA 7.51
B. Tech	NIT Surat	July, 1995 to June, 1999	Civil Engineering	1 <sup>st</sup> with distinction	68.12%

### EXPERIENCE

University / Organization	Designation	From	To	Nature of Experience
ISM Dhanbad	Assistant Professor	6 <sup>th</sup> January, 2012	Till Date	Teaching & Research
NIT Bhopal, MP	Assistant Professor	19 <sup>th</sup> January, 2010	3 <sup>rd</sup> January, 2012	Teaching & Research

University College Dublin, Ireland	<b>Marie Curie Experienced Postdoctoral Fellow</b>	14 <sup>th</sup> January, 2008	11 <sup>th</sup> January, 2010	Research, Mentoring UG & PG Students, Teaching
NIT Bhopal, MP	Assistant Professor	1 <sup>st</sup> January, 2006	30 <sup>th</sup> November, 2007	Teaching & Research
NIT Bhopal, MP	Lecturer	10 <sup>th</sup> August, 2005	31 <sup>st</sup> December, 2005	Teaching & Research

### Teaching Experience:

#### Subjects Taught:

- Basic Environmental Science and Engg. (B Tech level)
- Waste Water Engineering (B Tech level)
- Water Supply Engineering (B Tech level)
- Environmental Engineering Laboratory (B Tech level)
- Renewable Energy Sources (M Tech level)
- Applications of GIS and Remote Sensing in Precision Agriculture (Graduate course in UCD, Ireland)
- Assisted in field surveying (B Tech level)

#### SOFTWARE PROFICIENCY:

- ArcGIS
- Erdas Imagine (GIS)
- ArcView (GIS)
- Geomedia Professional (GIS)
- MapInfo Professional (GIS)
- SPSS
- Statistica

#### Details of M. Tech students guided/Continuing

S. No	Name of Student	Year	Title of the Dissertation
1.	MR. NARESH THAKRE	2006	Ambient Air Pollution Status and Health Risk of Bhopal City
2.	MR. RAVI KANT SHARMA	2007	Analysis of Solid Wastes and Design of Sanitary Landfill for Bhopal City

3.	MR. RAJEEV SINGH PARIHAR	2007	Route Analysis for Solid Waste Collection in Bhopal City Using GIS
4.	MR. RAM LAKHAN RAJPUT	2007	Performance Evaluation of UASB Reactor Installed at Bhopal
5.	MR. ABHIJEET DIJGAVNE	Ongoing	Landfill site selection using GIS
6.	MR. ANIL AMRAWANSHI	Ongoing	Effect of Muncipal Solid Waste (MSW) Dumping on Physical and Chemical Properties of Soil and Water

#### **Details of Ph. D students Guided/Continuing**

S. No	Name of Student	Year	Title of the Dissertation
1.	MR. RAJEEV SINGH PARIHAR	2011- Ongoing	Prediction of Nutrient Transport in Water Bodies of Bhopal City
2.	MR. TAPAS DASGUPTA	2011- Ongoing	Solid Waste Management

#### **Administrative responsibilities performed at Institute level in NIT Bhopal**

S. No	From	To	Position held	Responsibilities
1.	July 2010	July 2010	Co-Coordinator of SWOT Analysis	Preparation of questionnaire and collection of data
2.	August 2010	December 2010	Member of NMEICT (National Mission on Education through Information and Communication Technology)	Inspection and recommendation of Video recording facilities

#### **Administrative responsibilities performed at Department level in NIT Bhopal**

S. No	From	To	Position held	Responsibilities
1.	January 2006	November 2007	Co-Lab. I/C, Environmental Engineering Lab.	Lab Development, Laboratory Classes
2.	2010-2011	2010-2011	Departmental Member of Ph.D admission Committee	Scrutiny, Short listing, conducting Ph.D examination

3.	January 2011	April 2011	Departmental Co-ordinator for daily monitoring of classes	Monitoring and reporting of regular classes for civil engineering department
4.	June 2011	December 2011	Lab. I/C, Environmental Engineering Lab (UG).	Lab Development, Laboratory Classes

### Seminars/Short Term Courses/Summer Schools/Winter Schools organized at NIT Bhopal

S. No	From	To	Name of the Course	Sponsored by	No. of Participants from Institutes	No. of Participants from Industries
1.	24.04.2010	25.04.2010	Two Days Training Programme for Field Engineers in Infrastructural Development	Self	Total about 100 participants attended the course	

### Seminars/Short Term Courses/Summer Schools/Winter Schools attended

S. No	From	To	Institute/Industry	Sponsored by	Name of the course
1.	3.10.2005	9.10.2005	<b>MANIT, Bhopal</b>	TEQIP (Faculty Development & Networking), MANIT, Bhopal	Faculty Development Program for Fresh Faculty of Technical Institutions
2.	15.5.2006	26.5.2006	<b>IIT Kharagpur</b>	MANIT, Bhopal	Two Weeks Short Term Course on GIS: Technique and Applications
3.	25.4.2008	25.4.2008	<b>Newcastle University, UK</b>	University College Dublin, Ireland	Short Term Course on Spatial Analysis using ArcGIS
4.	20.06.2011	24.06.2011	<b>SPA, Bhopal</b>	MANIT, Bhopal	STTP on Remote Sensing and GIS Applications in Planning

5.	04.07.2011	09.07.2011	<b>IIT Kharagpur</b>	MANIT, Bhopal	Management Development Programme on Multivariate Data Analysis
----	------------	------------	----------------------	------------------	--

### Consultancy/Testing works undertaken

S. No	Period	Organization	Nature of Work	Co-consultant, if any
1	June 2011 to December	Municipal Corporation, Bhopal, MP	Geo-environmental Investigation of Solid Waste Dumping Site, Bhopal, MP	1. Mr. D. Kishan 2. Dr. P. K. Jain 3. Dr. M. S. Chauhan
2	June 2011 to December	Municipal Corporation, Jabalpur, MP	Geo-environmental Investigation of Solid Waste Dumping Site, Jabalpur, MP	1. Mr. D. Kishan 2. Dr. P. K. Jain 3. Dr. M. S. Chauhan
3	28.04.2006	Nagar Nigam, Bhopal	Testing of filter media samples	NA
4	28.04.2006	Sanskaar Valley School Chandanpura, Bhopal	Testing of water samples	NA
5	25.07.2007	Jaiswal Builders & Constructors	Testing of water sample for construction of the project at "M/S Bhashkar Industries Ltd., Mandideep, Hoshangabad Road"	NA
6	01.11.06	P. I. U. Bhopal	Testing of water sample to be used for construction work for the site at Berasiya (Pkg. No: 508)	NA
7	26.11.06	NBCC	Testing of water sample for construction of MP BHOJ [Open] Univ. at BPL	NA
8	26.11.2006	NBCC	Testing of water sample for construction of MP BHOJ [Open] Univ. at BPL	NA

9	23.04.2007	NBCC	Testing of water sample for construction of MP BHOJ [Open] Univ. at BPL	NA
10	17.07.2007	NBCC	Testing of water sample for construction of MP BHOJ [Open] Univ. at (Choona Bhatti) BPL	NA
11	05.12.06	POWERGRID ITARSI	Testing of water sample to be used for construction work of 220KV Switch Yard at Itarsi S/S	NA
12	15.12.06	W. C. Railway ET	Testing of Liquid Chlorine in the form of Sodium Hypochlorite Solution Conforming IS: 11673/1992 Grade II	NA
13	14.12.2010	KIRLOSKAR-KOYA-VATECH (JV)	Testing of cement concrete cubes for the construction work of CWPS-II, Ahmedpur.	NA

**LANGUAGE PROFICIENCY:** Bengali, English, Hindi

**EXTRA CURRICULAR ACTIVITIES:**

Singing, watching cricket, and social work

**PUBLICATIONS:**

**International Referred Journal**

- **Samadder, S. R., and Subbarao, C. (2007)** “A GIS Approach of Delineation and Risk Assessment of Areas Affected by Arsenic Pollution in Drinking Water.” J. Environmental Engineering, **ASCE**, Vol. 133, No. 7, pp. 742-749.
- **Samadder, S. R (2010)**. “Impact of Arsenic Pollution in Drinking Water on Life Expectancy: A GIS Approach”. KSCE Journal of Civil Engineering (**Springer Publication**), Vol. 14, No. 5, pp. 681-691.

- **Samadder, S. R., Ziegler, P., Murphy, T. M., and Holden, N. M (2010).** “Spatial Distribution of Risk Factors for *Cryptosporidium* spp. Transport in an Irish Catchment”. International Journal of Water and Environment Research (Published by **Water and Environment Federation**), Vol. 82, No. 8, pp. 750-758.
- **Samadder, S. R (2011).** “Impact of Arsenic Pollution on Spatial Distribution of Human Development Index (HDI)”. KSCE Journal of Civil Engineering, **Vol. 15, No. 6, pp. 975-982.**
- **Tang, J., Macdonald, S., Peng, X., Samadder, S. R., Murphy, T. M., and Holden, N. M (2011).** “Application of SWAT model to better understand *Cryptosporidium* oocysts transport in small ungauged agricultural catchments”. (**In Press**). **Water Research, Elsevier.**
- **Samadder, S. R., Nagesh Kumar, D and Holden, N. M. (2011).** “An Empirical Model to Predict Arsenic Pollution Affected Life Expectancy”. **Under Preparation.**
- **Samadder, S. R., Rajput, R. L., and Parihar, R. S (2011).** “Performance of UASB Reactor as a Common Effluent Treatment Plant: A Case Study”. **Under Preparation.**

#### **International Conference**

- **Samadder, S. R., and Subbarao, C. (2007)** “Capabilities of GIS in Risk Assessment due to Arsenic Pollution in Drinking Water.” Conference on “Current Trends in Remote Sensing and GIS Applications, February 15-17, 2007, IIT Kharagpur, India.
- **Samadder, S. R., and Holden, N. M. (2009)** “A GIS Approach of *Cryptosporidium* Risk Assessment of Irish Catchment.” Conference, Environmental Sciences Association of Ireland, 19<sup>th</sup> Irish Environmental Researchers’ Colloquium; February 18-20, 2009, Waterford Institute of Technology, Waterford, Ireland.
- X. Peng., S. McDonald., T. Murphy., M. Berzano., P. Ziegler., **S. R. Samadder.**, and N. M. Holden (**2009**). The transport and attachment of *Cryptosporidium parvum* oocysts in main Irish soils. June 15-19, 2009. 18th International Soil Tillage Research Organization. Izmir, Turkey.
- **Samadder, S. R,** Peng, X, McDonald, S, Murphy, T. M, Berzano, M, Ziegler, P.E, Holden, N. M (**2009**). Relative Risk of *Cryptosporidium* Spp. Transport in an Irish Catchment. October 11-15, 2009. 3<sup>rd</sup> International Giardia and *Cryptosporidium* Conference. Orvieto, Italy.

- *McDonald, S., Berzano, M., Ziegler, P., Peng, X., Samadder, S. R.,* Murphy, T., and Holden, N. M. (2009). How sensitive is qualitative risk assessment at the small agricultural catchment scale? November 27, 2009. Joint meeting of the Irish Society of Parasitology and British Association of Veterinary Parasitologists. Central Veterinary Research Laboratory, Backweston Campus, Celbridge, Co. Kildare, Ireland.

#### **Proceedings Published**

- Proceedings of the Two Days Training Programme for Field Engineers in Infrastructural Development edited by M S Chauhan, S Rokade, K Dharavath and **S R Samadder**, held in April 2010, Bhopal, **India**.