



## **PERSONAL BIO-DATA**

**Name** : Dr. Sudhir Kumar Dash  
**Present Designation** : Assoc. Prof. of Geology & Principal I/C(Retd.)  
Govt. College, Sundargarh  
**Present Address** : Adarsh Nagar, Sundargarh-770001  
**Date of Birth** : 27<sup>th</sup> June 1961 (27/06/1961)  
**Date of Entry into Govt. Service** : 22.07.1986 (OMGS) & 18.09.1991(OES, CB)  
**Mob. No.** : 9861316590  
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**Academic Records** : **M.Sc.** in Geology from Utkal University  
Bhubaneswar in 1983 securing 69.5% marks  
**M.Phil** in Geochemistry from J.N.U., New Delhi  
in 1986  
**Ph.D** in Hydro-geology from Sambalpur  
University, Jyoti Vihar, Burla in 1999

**Research Studies** : **M.Phil**  
Title: Geochemistry of Champion Gneisses in the  
Kolar Schist Belt of Karnataka  
Guide: Prof. V.Rajamani, School of Environmental  
Sciences, J.N.U., New Delhi  
**Ph.D.**  
Title: Hydrogeological Studies of Ground Waters in  
western part of Sundargarh District, Orissa, India  
Guide: Prof. H.K.Sahoo, Dept. of Earth Sciences,  
Sambalpur University, Burla

**Areas of Specialisation** M.Sc. - Metallic Minerals  
M.Phil- Geochemistry of Hard Rocks  
Ph.D. - Hydrogeology

**Occupational Goal** : To actively and sincerely contribute to the  
development of the organization where my  
Geological, Hydrogeological and Organizational  
skill can be utilized.

### **Nature of Present Employment:**

Presently working as a Guest Faculty in Geology at Govt. College, Sundargarh for teaching at UG & PG levels.

### **Details of Professional/Practical & Research Experience:**

a) Over one and half years of research experiences on the genesis of the Felsic Meta-volcanics of the granite- greenstone belts particularly of “ Champion Gneiss” in the Kolar Schist Belt, Karnataka and its bearing on the gold mineralization of the belt through geochemical modeling basing on major trace element abundances.

b) Over 25 years of research experiences on the Geo-hydrological investigation, quality of ground water and its budgeting in the Lower Gondwana and Gangpur Formations in the western part of Sundargarh district, Orissa.

c) Over two years of working experiences on modern analytical instruments like A.A.S, X.R.D., D.C.P. & I.C.P. etc. in rock analytical studies.

d) Actively associated with Prof V.Rajamani in developing the mineralogical and geochemical laboratories in the School of Environmental Sciences, Jawaharlal Nehru University, New Delhi during 1984-1986.

e) Actively associated with Prof. H.K.Sahoo in developing the hydro-geochemical laboratories in the Dept. of Earth Sciences, Sambalpur University, Jyoti Vihar, Burla and Dept. of Geology, Govt. College, Sundargarh since 1996.

f) As a Geologist under Dept. of Steel and Mines, Govt. of Orissa carried out the investigations of different varieties of gemstones in the River Mahanadi & Tel in the districts of Phulbani, Sambalpur, Bolangir & Dhenkanal during 1986-1990. Also carried out the investigations for the rocks suitable for use as decorative stones in parts of Ganjam District of Orissa during 1990-1991.

g) Over twenty three years of experience in computer aided geological data processing and working knowledge of modern and advances geological & GIS software.

h) Successfully completed the Certificate course in computer programming in FORTRAN-IV and Advanced Diploma in Software Application and PGDCA.

i) Attended the Orientation Course (four weeks duration) in 1994 and Refresher Course in Environmental Science (four weeks duration ) in 1996 conducted at the Academic Staff college, J.N.U., New Delhi Refresher Course in Earth Science in 2003 conducted at Dept. of Earth Science, Annamalai University, Tamilnadu & Refresher Course in earth Science in 2004 conducted at Fakir Mohan University, Balasore, Orissa.

j) Participated at the NNRMS/ISRO sponsored Certificate Course (three weeks duration) on “**Remote Sensing & GIS Application for Natural Resource Management**” conducted at the Orissa Remote Sensing Application Centre, Bhubaneswar during February 17<sup>th</sup>- March 10<sup>th</sup>, 2000.

k) Attended National Workshop on “ **Computer applications in Geology**”, organized at the Dept. of Geology, Andhra University, Visakhapatnam during 25-27 August, 2003

l) Since 1991 worked as Lecturer/Senior Lecturer/ Reader/ Associate Prof. in Geology, under Department of Higher Education, Govt. of Odisha in teaching the Undergraduate (Hons. & Pass) & Post-graduate students.

m) Worked as Principal , Govt. College, Sundargarh w.e.f 01.01.2021 to 30.06.2021 and retired from govt. service on attaining the age of superannuation on 30.06.2021.

n) Successfully and actively associated with various assigned co-curricular activities in Govt. College, Sundargarh, Khallikote (Auto College), Berhampur & D.D.(Auto) College, Keonjhar such as OIC, Examinations, Administrative Bursar, OIC, UGC matters, Academic Bursar, Controller of Examinations at D.D.(Auto) College, Keonjhar(2011-2013) etc.

### **Books Published:**

*Dash, S.K. (2003).* Occurrence of Ground Water in Hard Rock Terrain of parts of Sundargarh District, Orissa, India : Proceedings of International Conference on **Ground Water in Fractured Rocks**, Prague, 15-19 September, 2003, (p.1-426), pp.47-48(ISBN-92-9220-002-X)

*Lenka, G., Sahu, H, Hota, R.N., Goswami, S, Dash,S.K., Sahoo, N. & Pattanaik, M.K. . (2016).* Bureau's Higher Secondary **GEOLOGY(Part-I)**, The Odisha State Bureau of Textbook Preparation and Production, Bhubanesar, Odisha, India, 2 edition, p.1- 266.(ISBN-978-81-8005-355-9)

*Lenka, G., Sahu, H, Hota, R.N., Goswami, S, Dash,S.K., Sahoo, N. & Pattanaik, M.K. . (2017).* Bureau's Higher Secondary **GEOLOGY(Part-II)**, The Odisha State Bureau of Textbook Preparation and Production, Bhubanesar, Odisha, India, 2 edition, p.1- 407.(ISBN-978-81-8005-382-5)

*Routray, K, Sahoo, H.K. & Dash, S.K.(2019)* Chemical characterization of Ground Water in the Rairakhol Sub-division of Sambalpur District, Odisha & their Genesis: **Vistas in Geological Research (Earth Science Researches: New Horizon, 2019)**, Spl Publ, Dept. of Geology, Utkal University,Vani Vihar, Bhubanesar, Odisha, India , vol-17(p.1-197), pp.38-43(ISBN- 978-93-5351-340-5)

### **Specific Achievements:**

- a. Qualified at the National Educational Test (Master's Level) held in September, 1985 in Geology, conducted by U.G.C. for award of Junior Research Fellowship.
- b. Successfully completed the UGC sponsored Minor Research Project (***Resource Evaluation of Ground Water in the Surrounding Rural Areas of Sundargarh Town, Orissa***) in 2010.
- c. I was conferred on **Honorary Fellowship** by the **Society of Environmental Sciences, Dumka, Jharkhand (2002)** for outstanding contribution in the field of Environmental Science.

### **Member of Distinguished Associations/Organizations:**

1. Fellow of the Geological Association and Research Centre, Balaghat, M.P.
2. Honorary Fellow & Life Member of the Society of Environmental Sciences, Dumka, Jharkhand.
3. Member, Centre for Science and Environment, New Delhi
4. Member, Indian Association for Environmental Management, Nagpur.
5. Member, Indian Science Congress, Kolkata.
6. Life Member, Indian Geological Congress, Roorkee.
7. Member, International Association for Hydrogeologists (India Chapter, New Delhi)

### **Research Publications:**

***Dash, S.K. (1996)***, Aquifer Characteristic and Quality Assessment of Ground Waters in a part of Sundargarh District, Orissa: Abs. Vol: Seminar on Gondwana Basins of Orissa, Jyoti Vihar, Burla, pp.6-7

***Dash, S.K. & Sahoo, H.K. (1999)***. Quality Assessment of Ground Water in a part of Sundargarh District: Indian Jour. of Environmental Protection; vol. 19, No. 4, pp.273-278.

***Dash S.K. & Sahoo, H. K. (2002)***. Ground Water Budgeting in the Western Part of Sundargarh District, Orissa, Indian Jour. of Environmental Protection; vol. 22, No. 7, pp. 772-778.

***Dash, S.K. & Sahoo, H.K. (2003)***. Pollution Potential Studies of Ground Water around two Mining Areas in Orissa: Indian Jour. of Environment & Eco-planning; vol.7(2), pp.353-358.

***Dash, S.K. (2003)***. Occurrence of Ground Water in Hard Rock Terrain of parts of Sundargarh District, Orissa, India : International Conference on Ground Water in Fractured Rocks, Prague, 15-19 September, 2003.

**Dash, S.K. & Sahoo, H.K. (2003).** Targeting of Ground Water Using IRS-IA Data: Misc. Publ. Quarterly Journal of the Geological Association & Research Centre, Balaghat (M.P.); No. 18, pp.1-8.

**Dash, S.K., Sahoo, H.K. & Sahu, P.C. (2003).** Genetic Evaluation of Ground Water in the Western part of Sundargarh District, Orissa, Proc. Workshop on “ Groundwater Management in Orissa- its Prospects & Challenges” CGWB, Bhubaneswar, 17<sup>th</sup> Dec’03. pp. 107-122.

**Sahu, P.C., Sahoo, H.K. & Dash, S.K. (2003).** Quality Assessment of Ground Water of the area around Bonaigarh, Sundargarh District, Orissa: Proc. Workshop on “Groundwater Management in Orissa- its Prospects & Challenges” CGWB, Bhubaneswar, 17<sup>th</sup> dec’03, pp. 122-135.

**Dash, S.K. (2004).** Major Ion Composition of Ground Water- its Genesis with reference to Rock- Water Interaction in the Western Part of Sundargarh District, Orissa, India: 4<sup>th</sup> International Conference; CWQ2004, University of Waterloo, Waterloo, Ontario, Canada; July 19-22, 2004.

**Laluraj, C.M., Gopinath, G., Dineshkumar, P.K. & Dash, S.K. (2005).** Groundwater Chemistry of Shallow Aquifers in the Coastal Zones of Cochin, India: Applied Ecology and Environmental Research, vol.3(I), pp.133-139

**Dash, S.K. (2006).** Strategies for Disaster management- An Indian Scenario ; Abs, Vol; National Seminar on Natural and Anthropogenic Disaster in Indian Subcontinent- Forecasting and mitigation Practices (NADIS- 2006); Department of Earth Sciences, Sambalpur University, Jyoti Vihar, Burla, Orissa, March 3-4, 2006.

**Dash, S.K. (2006).** TSUNAMI – The Killer Tidal Waves : National Seminar on Natural and Anthropogenic Disaster in Indian Subcontinent – Forecasting and mitigation Practices (NADIS – 2006); Department of Earth Sciences, Sambalpur University, Jyoti Vihar, Burla, Orissa, March 3-4, 2006, pp. 10-13.

**Dash, S.K. & Sahoo, H.K. (2006).** Predictions of some Ground Water quality parameters of the Sundargarh town and its surrounding areas, Orissa, India – A Statistical Approach: GEO-SPECTRUM INTERFACE, vol. 1, No. 1; December 2006, pp. 21-26.

**Dash, S.K. (2007),** Geographic Information System (GIS) : UGC sponsored State Level Seminar on Information Technology – Trends and Application; Govt. Women’s College, Sundargarh, Orissa, 19<sup>th</sup> & 20<sup>th</sup> September, 2007, pp. 27-30.

**Dash, S.K. (2008).** “ Blue Baby” Syndrome : Orissa Industry Special 2008: A Pratisruti Plus Supplement, Bhubaneswar, pp. 58-60.

**Routray, K, Sahoo, H.K & Dash, S.K. (2009).** Possible Sources of Chemical Constituents of Ground Water in Rairakhol Sub-division of Sambalpur District, Orissa – A Statistical Approach: Proc. National Workshop on “ Groundwater Scenario and Quality in Orissa ” CGWB, Bhubaneswar, 6<sup>th</sup> & 7<sup>th</sup> March’09. pp.67-71.

**Dash,S.K.(2009).** Selected Heavy Metal Studies of Ground Water Around the abandoned Pb-Zn Mines at Sargipali, Sundargarh District, Orissa: Proc. National Workshop on “ Groundwater Scenario and Quality in Orissa ” CGWB, Bhubaneswar, 6<sup>th</sup> & 7<sup>th</sup> March’09. pp.96-99.

**Das, H.K., Dash, A, Mishra, B, Dash, S.K. & Bhuyan, N.K. . (2013).** Assessment of Physico-Chemical Parameters of Sona River Water in & around Joda Town, Keonjhar District, Odisha, The Quarterly Journal of the Geological Association & Research Centre, Balaghat (M.P.); vol-21, No. 2, pp.27-36.

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