

Brief Bio-data

1. Name: Dr. Lalit Kumar Sahoo
2. Date of Birth: 10th September 1968
3. Current Position and Address (Include Email ID and Contact Number):
Sr. Principal Scientist (Email: lalitsahoo@cimfr.nic.in, lalitsahoo@yahoo.co.in)
CSIR-Central Institute of Mining & Fuel Research, Nagpur Unit
17/c, Telenkhedi Area, Civil lines, Nagpur-440 001
Phone number: 9422331817
4. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1	A.M.I.E (Eq. to B.E.)	1992	Institution of Engineers, Kolkotta	Mechanical
2	M.Tech.	1996	Devi Ahilya ViswaVidyalaya, Indore,	Energy management
3	Ph.D	2015	Indian Institute of Technology, Bombay	Topic: Energy Efficiency in opencast Mining

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Sr. Principal Scientist	CSIR-Central Institute of Mining & Fuel Research, Nagpur	2017	Continuing	Energy Audit, Energy management, Coal quality assessment
Principal Scientist	CSIR-Central Institute of Mining & Fuel Research, Nagpur	2012	2017	Energy Audit, Management & Energy benchmarking
Sr Scientist	CSIR-Central Institute of Mining & Fuel Research, Nagpur	2007	2012	Energy Audit & Energy Management
Scientist C	CSIR-Central Institute of Mining & Fuel Research, Nagpur	2002	2017	Energy Audit & Energy Management
Scientist B	CSIR-Central Institute of Mining & Fuel Research, Nagpur	1997	2001	Energy Audit & Energy Management

6. Work Area(s)/ Specialization: *Energy benchmarking, Energy efficiency, Mathematical modelling, Energy audit for mines, power plant and other industries.*

7. Major contributions: (Max. 100 words):

8. No. of Research Publications:

- Papers in Journals: : 5
- In conference proceedings: : 6
- Invited lectures delivered: : 6

- List of best 05 publications

List of Publications in Journals

1) **Sahoo L. K.** , Bandyopadhyay S, Banerjee R. “Benchmarking energy consumption for dump trucks in mines”, Applied Energy, 113 (2014), 1382-1396.

Impact Factor: 4.5

2) **Sahoo L. K.**, Bandyopadhyay S., Banerjee R. , Water and energy assessment for dewatering in opencast mine, Journal of cleaner production, 84, 736-745, 2014.

Impact Factor : 3.59

3) Soni,A.K., **Sahoo,L.K.**,Ghosh,U.K and Khond,M.V. Importance of radius of influence and its estimation in a limestone quarry,Journal of Institution of Engineers (India), Series D, 96 (1), 77-83, 2015.

Impact Factor : 0.84

4) Soni A.K, **Sahoo L.K.**,Ghosh U.K. Quantitative estimation of water in an opencast Limestone mine of Odisha, Geomintech: The Indian Mineral Industry Journal: Iss-No11-July-Sept/ ENTMS 2015

5) Topno Seema A, **Sahoo L.K.**, Umre B. S. Energy efficiency assessment of electric shovel operating in opencast mine, Energy, Volume 230, 1 September 2021, 120703, <https://doi.org/10.1016/j.energy.2021.120703>

Impact factor: 7.14

- Books/Chapters authored/edited : 1

Sahoo L. K. , Bandyopadhyay S, Banerjee R. *Benchmarking energy consumption of truck haulages*; Energy Efficiency in the Minerals Industry - Best Practices and Research Directions , 2018

9. List of 5 Major Contract R&D Projects completed as Project Leader

1. Energy Audit of one 100 MW and one 50 MW unit Thermal power plants of Neyvelli Lignite Corporation (Neyveli Lignite corporation) completed in **2006**
2. Benchmarking Specific Diesel Consumption (SDC)of Dipka Opencast Coal Mine South Eastern Coalfields Ltd., Bilaspur (SECL, Bilaspur), completed in **2016**
3. Benchmarking Specific Diesel Consumption (SDC)of AKWM Open Cast Coal Mine of Bharat Coking Coal Limited, Dhanbad (BCCL, Dhanbad), completed in **2017**
4. Study of Specific Diesel Consumption (SDC)of Gevra Opencast Mine South Eastern Coalfields Ltd., Bilaspur (SECL, Bilaspur), completed in **2018**
5. Study of Specific Diesel Consumption (SDC)of Kusmnda Opencast Mine South Eastern Coalfields Ltd., Bilaspur, completed in **2018**

10. (a) Name of Patents/Copyrights applied /granted/commercialized:

(b) Technologies/Products /knowhow/Services developed :

11. Honors/Awards/Recognitions/Fellowships/Scholarships/Professional Memberships received:

Certified Energy Auditor from Bureau of Energy Efficiency (**2004**)

Accredited Energy Auditor of Bureau of Energy Efficiency-AEA 0112 (**2013**)

12. Societal Contributions

Aware industry/ society regarding importance of energy conservation, efficient utilization of energy and its benefits