

Resume



1. Name of Scientist/ Technical Staff : **Dr. J. K. Singh**
2. ID of the Employee both Internal ID & ERP ID : **91604 & 4A9F**
2. Name of Research Group : **Mine Mechanization and Technology Development**
3. Date of Birth : **02/10/1973**
4. Date of Joining CSIR-CIMFR : **02/11/1998**
5. Present Position and address : **Sr. Technical Officer (1)**
- E-mail : **jks_cimfr@hotmail.com; drjksingh@cimfr.nic.in**
- Phone : **(+91) 09430136304 (M); Extn. 4356 (O)**

6. Educational Qualification after+2 with subject, year of Passing, Name of University/ Institute:

Sl No.	Degree	Subject	Year	University / Institute
(i)	Diploma	Electronics & Communication Engineering	1996	Institute of Engineering & Rural Technology (IERT) Allahabad.
(ii)	B.E/B. Tech AMIE Sec 'A' & 'B'	Electronics & Communication Engineering	2005	Institution of Engineers (India), Kolkata
(iii)	M. Tech	Electronics & Communication Engineering	2008	IIT (ISM) Dhanbad (GOLD MEDALLIST)
(iv)	Ph. D	Electronics Engineering	2016	IIT (ISM) Dhanbad

7. Area of Research: **Opto-electronics devices & materials (LASERs, LEDs & Solar Cell, Compound Semiconductors), Intrinsic Safety, Optical Fiber Communication, Mining Electronics.**

8. Professional Career:

Sl. No.	Designation	Institution/company	Form	To	Nature of work
I.	Service Engineer	Dynarc Systems Pune	1996	1998	Design & maintenance of Automatic Welding m/c
II.	Jr. Technical Assistant	Central Fuel Research Institute	1998	2003	Instrumentation section
III.	Technical Assistant	Central Fuel Research Institute	2003	2006	Instrumentation section
IV.	Technical Officer	Central Institute of Mining and Fuel Research	2006	2011	Non-Conventional Energy and Instrumentation

V.	Sr. Technical Officer (1)	Central Institute of Mining & Fuel Research	2011	2016	Flame & Explosion Laboratory
VI.	Sr. Technical Officer (1)	Central Institute of Mining & Fuel Research	2016	2017	Product, Process & Technology Development
VII.	Sr. Technical Officer (1)	Central Institute of Mining & Fuel Research	2017	Till date	Mine Mechanization & Technology Development

9. Awards/ Recognition: **GOLD MEDAL**

Topper in M. Tech from Indian School of Mines University, Dhanbad, India.

10. List of Publications in SCI Journals with full details:

Total Publications: **14** (International/National Journal: **06**, Conference/Seminar: **08**), Technical Reports: More than **200**.

(a) In Journals (Indian & International with impact factor):

Sl. No	Authors	Title of the Article	Year of Pub	Name of Journal	Count -ry	Vol No. Issue, Pages	I.F
1.	V Kumar and J K Singh	Electronic, elastic and optical properties of divalent ($R^{+2}X$) and trivalent ($R^{+3}X$) rare earth monochalcogenides	2017	Indian Journal of Physics	India	Volume 91(8) August 2017, pp. 875-881	1.377
2.	V Kumar, J K Singh and G M Prasad	Elastic properties of elemental, binary and ternary semiconductor materials	2015	Indian Journal of Pure and Applied Physics	India	Volume 53(7) pp. 429-435.	0.766
3.	V Kumar and J K Singh	Model for Calculating Refractive Index of Different Materials	2010.	Indian Journal of Pure and Applied Physics	India	Vol. 48 (8) pp. 571-574	0.766
4.	J K Singh , B R Singh, Kuldip Singh and V Kumar	Fabrication of High Brightness Blue LED	2010	International Journal of Applied Engineering Research	India	Volume 5(2), pp. 247-252.	ISSN 0973-4562
5.	J K Singh and V Kumar	Mathematical Model for Calculating Ionicity of Binary Semiconductors	2010	International Journal of Material Sciences	India	Volume 5(1) pp.59-65	ISSN 0973-4589

(b) Books/Monographs: NA

(c) Total Citation: **53**

(d) Total Impact Factor: **2.909**

11. Patents filed & granted (India & International): NA

12. Projects (GAP/SSP/CNP) Completed and Ongoing (More than 10 Lakhs): Total Projects More than **100**

Sl. No.	Title	Sponsored Agency	Amount
1.	Assessment and advice for healthiness/suitability of electrical equipment installed at hazardous area at Suvali on shore.	Cairn Energy India Pvt. Ltd. , Gurgaon	Rs. 21,96,984/-
3.	Assessment and advice in suitability of Flameproof /Increased safety electrical equipment installed at hazardous area of zone 1 & 2 of Mangla Processing Terminal (MPT) at Barmer.	Cairn Energy India Pvt. Ltd., Gurgaon	Rs. 16,05,203/-
4.	Assessment and advice for suitability of drilling Rig #3 and 27 for use in hazardous area as per relevant standards.	M/s. Quippo Oil and Gas Infrastructure Ltd., Gurgaon	Rs. 10,85,370/-
5.	Assessment and advice for suitability of Electrical equipment installed in zone 1 & 2 hazardous area of Ravva Oil and gas filled in PKGM-1 offshore block located in Krishna-Godavari Basin, Bay of Bengal off the coast as per different relevant standards.	Cairn Energy India Pvt. Ltd., Gurgaon	Rs. 28,88,748/-
6.	Assessment and advice for suitability of Electrical equipment installed at hazardous area of Western Region of ONGC as per different relevant standards.	ONGC, Delhi	Rs. 36,49,481/-
7.	Assessment and advice for suitability of Electrical equipment installed at hazardous area of Southern Region of ONGC as per different relevant standards.	ONGC, Delhi	Rs. 25,22,286/-
8.	Assessment and advice for suitability of Electrical equipment installed at hazardous area of Eastern Region of ONGC as per different relevant standards.	ONGC, Delhi	Rs. 22,63,970/-
9.	Assessment and advice for suitability of Electrical equipment installed at hazardous area of Central Region of ONGC as per different relevant standards.	ONGC, Delhi	Rs. 18,96,890/-

13. Significant Contribution and achievement in your field of Research (Max. 100 words):

- i) Design evaluation of intrinsically safe electrical and electronic equipment received from BIS, Statutory bodies, user and manufacturers.
- ii) Assessment, Testing and Certification of more than 200 intrinsically safe equipments for use in Hazardous areas. More than 200 Technical Reports have been written for the benefit of the Nation and it may help the Make in India mission of our country.
- iii) Sponsored/Consultancy /SI Projects (more than 100) related to 'Ex' Equipments have been completed as PL/member.
- iv) Given lectures to ONGC executives on various topics such as maintenance of electrical and electronics (Ex 'i') equipment for U/G coal mines/petrochemical industries.
- v) Maintenance, calibration and up keeping of instruments used for testing and their Indenting/ Purchasing.
- vi) Calculated uncertainty and Z-Score for various calibration/test data, prepared various documents for NABL accreditation. Received training for ISO/IEC 17025. Continuously participating in day to day developments required for NABL accreditation of FLP Lab of our institute.
- vii) Five (05) B. Tech students have completed their projects under my supervision.

14. Ph. D Supervisions: NA

Name of Student

University

Topic of PhD Thesis

Subject

Year in which PhD was awarded

Signature