

Brief Bio-data

1. Name: MANOJ KUMAR VISHWAKARMA
2. Date of Birth: 22nd September, 1976
3. Current Position and Address:
(Include Email ID and Contact Number) Sr. Technical Officer (1)
Flameproof and Equipment Safety
CSIR-CIMFR, Dhanbad
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4. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1.	Diploma in Electrical Engineering	1998	State Board of Technical Education, Bihar	Electrical

5. Work experience:

Designation	Institute	From	To	Nature of Work
Sr. Technical Officer (1)	CSIR-CIMFR	25.07.2018	till date	Testing and certification of Ex equipment
Technical Officer	CSIR-CIMFR	25.07.2009	25.07.2018	Testing of SCSR self contained self rescuer and ventilation Survey
Junior scientific Assistant	CSIR-CIMFR	25.07.2002	25.07.2009	Testing of Electrical Cable and Rope Wire

6. Work Area(s)/ Specialization:

- Design Evaluation, Testing & certification of Explosion proof electrical equipment like Flameproof, Intrinsic Safety, Increased safety, Pressurization, Oil filled, Sand filled, Non-sparking, Restricted breathing, Encapsulation, Heat tracing cable, Exploder, Cable testing, rope testing, self resquare and ventilation survey.

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

- The various products/equipment used in coal mines, oil and gas mines, petrochemical, refineries etc. and defence installations must have specific or special; protection system. The significant contribution were made in design evaluation, inspection ,advice and testing on further development of explosion proof products in strategic industries like defense installation, launching pads (rockets) etc.
- Performance Evaluation of Various Safety & Rescue Equipment Used in Mines:
- Ventilation Survey and Planning of Coal and Non-coal mines:

8. No. of Research Publications:

- Papers in Journals: Nil
- In conference proceedings:
 - (i) "Dust Exposure Linked Health Risk Assessment of Miners in Underground Coal Mines in Improvement Strategy" K K Mishra, J K Pandey, M K Vishwakarma, A Jaiswal & R K Dubey Paper presented in intranational Conference on Futuristic metrials and Emerging Trends in Forensic and Life Sciences (ICFM-2015),
 - (ii) Mishra K K, Agarwal Deepa, Pandey J K, Viswakarma M K, Kumari S & Bandopadhyay A K, "A study on free silica present in mine air: sample collection, analytical procedure and its importance for health risk assessment", Procd. Koyala Upyog : Drishti-2025
 - (ii) Agarwal Deepa, Mishra K K, Pandey J K, Viswakarma M K, Kumari S & Bandopadhyay A K, "Studies on various factors causing silicosis in workers: diagnosis and formulation of remedial measures", Procd. Koyala Upyog : Drishti-2025 ".

- (iv) Pandey J K, Agrawal Deepa, Kumari Shobha, Vishwakarma M K , Mishra K K, Bandopadhyay A K, "Towards Sustainable Growth in Mining, Mitigating Dust Related Health and Safety Problems: An Overview", Procd. Golden Jubilee Workshop on Mining Technology, Mine Tech'12.

- Invited lectures delivered: Nil

- List of best 05 publications:

- (i) Pandey J K, Agrawal Deepa, Kumari Shobha, Vishwakarma M K , Mishra K K, Bandopadhyay A K, "Towards Sustainable Growth in Mining, Mitigating Dust Related Health and Safety Problems: An Overview", The Indian Mining and Engineering Journal, Mine Tech Publication , Bhubbaneswar, India, Vol 52, No. 7, Pp 22-25, July, 2013.

- (ii) Agarwal Deepa, Mishra K K, Pandey J K, Vishwakarma M K, Kumari S & Bandopadhyay A K, "Studies on various factors causing silicosis in workers: diagnosis and formulation of remedial measures", The Indian Mining and Engineering Journal, Mine Tech Publication , Bhubbaneswar, India, Vol 52, No. 5, pp 14-18, May, 2013.

- Books/Chapters authored/edited:

कमलेश कुमार मिश्र, जय कृष्ण पाण्डेय, मनोज कुमार विश्वकर्मा, शोभा कुमारी, दीपा अग्रवाल एवं अनूप कुमार बंदोपाध्याय, खदान वायु में उपस्थित मुक्त सिलिका का अध्ययन: नमूना संग्रह, विप्लेषणात्मक क्रियाविधि एवं खदान कर्मियों के स्वास्थ्य पर दुष्प्रभाव, कोयला उपयोग: दृष्टि – 2025, अंतर्राष्ट्रीय मानक पुस्तक संख्या (ISBN): 978–93–5174–620–1, 2014, पृष्ठ संख्या 204–211

दीपा अग्रवाल, कमलेश कुमार मिश्र, जय कृष्ण पाण्डेय, मनोज कुमार विश्वकर्मा, शोभा कुमारी एवं अनूप कुमार बंदोपाध्याय, मजदूरों में होने वाले सिलिकोसिस बीमारी के विविध कारण इनका निदान व रोकथाम के उपायों का एक अध्ययन,, कोयला उपयोग: : दृष्टि –2025, अंतर्राष्ट्रीय मानक पुस्तक संख्या (ISBN): 978–93–5174–620–1, 2014, पृष्ठ संख्या 218–225

9. List of 5 Major Contract R&D Projects:

- (i) Studies on determination of free silica (alfa quartz) content in Respirable Air Born Dust in Coal Mines and preparation minerals present in dust as well as in coal" CIMFR Dhanbad and Safety-Rescue Dept. Coal India Limited.
- (ii) Design support in development of battery operated forklift, Oil mist generator, EOT Crane, Air Conditioning for use in hazardous area.
- (iii) Design evaluation and advice of increased safety, pressurization motor and pressurized panel.
- (iv) Service to industry projects and provided knowledge support to new MSME industry in hazardous area as per IS/IEC.

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

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

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

12. Societal Contributions:

- Applicant involved in team member as Five days executive training for ONGC engineers organized by the HRD Dept. CIMFR on 'Explosion proof equipment' annually in support of "SKILL INDIA".
- Guidance to the new manufacturers in the hazardous area in support of "ATMANIRBHAR BHARAT" for the production of Ex electrical equipment used in different industries.

(Signature)