

Brief Bio-data

1. Name: Amit Kumar
2. Date of Birth: 20/11/1993
3. Current Position and Address:
(Include Email ID and Contact Number) Technical Officer
Dept: Flameproof and Equipment Safety
CSIR-CIMFR, Dhanbad
e-mail: amitkr@cimfr.nic.in
Mob: 7827722403

4. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1.	M. Tech.	2020	IIT(ISM), Dhanbad	Electrical Engineering
2.	B. Tech.	2015	WBUT, Kolkata	Electrical Engineering

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Technical Officer	CSIR-CIMFR, Dhanbad	04.12.2018	Till date	Testing & certification of Ex Equipment

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 etc.
- Testing and Design Evaluation of Non-Electrical Equipment for hazardous areas like conveyor belt (PVC/steel chord), Brattice cloth, Ventilation ducting, Flame arresters, Non-Sparking Tools etc.
- Inspection and maintenance of electrical installations in Hazardous area as per IS/ IEC standards.

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

- 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 contributions were made in design evaluation, inspection, advice and testing on further development of explosion

proof products in strategic industries like defence installation, launching pads (rockets) etc.

8. No. of Research Publications:

- Papers in Journals: Nil
- In conference proceedings:
 - Evaluation of Intrinsic safe electrical equipment for appliance in potentially hazardous area, AIM-2020, CSIR-CIMFR, Dhanbad
- Invited lectures delivered:
 - Intrinsic Safety: Protection Technique for Safe Operation in Explosive Atmospheres, ONGC Executive training program, 2021
 - Flame Arresters in Hazardous area, ONGC Executive training program, 2021
- List of best 05 publications: Nil
- Books/Chapters authored/edited: Nil

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

- Design support in development of battery-operated forklift for use in zone 22 area for material handling.
- Design evaluation and advice of increased safety, pressurization motor and pressurized panel.
- Design support in development of oil-mist generator, Air condition, and EOT cranes etc. for use in hazardous area.
- Completed various service to industry projects and provided knowledge support to new MSME industry in relevant field.

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:

- MHRD GATE Fellowship (2017-2019).
- Vigyan Bharati life time member.

12. Societal Contributions:

- Five days executive training for ONGC engineers organized by the FES Dept. on 'Explosion proof equipment' annually in support of "SKILL INDIA".
- Guidance to the new manufacturers in the relevant field in support of "ATMANIRBHAR BHARAT".