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Data

1. Name: Dr. Girendra Mohan Prasad
2. Date of birth: 21-09-1962
3. Current Position and Address: Head, Testing Cell & Instrumentation Division, CSIR-CIMFR,
(with E-mail & Phone no.) Barwa Road Campus, Dhanbad – 826 015;
prasadm@yahoo.com; 9430149978.
4. Educational qualifications: (Graduation and above)

Degree	Year of passing	University/Instt.	Subject	Div./Class/Grd.
1. B.Sc.(Hons)	1982	Ranchi	Phy.(Hons), Chemistry, Mathematics	First Class
2. M.Sc.	1985	Ranchi	Physics, (Spl. in Electronics)	First Class
3. Ph.D	1997	ISM, Dhanbad	Applied Physics	--

5. Work experience:

Sl.No.	Designation	From	To	Instt./Comp.	Nature of work
1.	Lecturer in Physics	17-08-1985	05-05-1987	Mahuda Mahavidyalaya, Mahuda, Dhanbad	Teaching
2.	JR. Research Fellow	06-05-1987	05-05-1989	CMRI, Dhanbad	R & D
3.	Sr. Research Fellow	06-05-1989	29-10-1989	CMRI, Dhanbad	-Do-
4.	Junior Scientist	30-10-1989	29-10-1994	CMRI, Dhanbad	
5.	Scientist	30-10-1994	29-10-1999	CMRI, Dhanbad	
6.	Senior Scientist	30-10-1999	29-10-2004	CMRI, Dhanbad	
7.	Principal Scientist	30-10-2004	29-10-2009	CIMFR, Dhanbad	
8.	Senior Principal Scientist	30-10-2009	Continuing	CIMFR, Dhanbad.	

6. Area of specialization: Electronics, studies of electronic properties of semiconducting materials, optical fiber Communication system, development of instrumentation for mines related to safety and testing of various electrical/electronic equipment for their safe use in underground mines.
7. Honors/Awards received: NIL
8. Fellowships/Scholarships: NIL
9. No. of Research Publications:
 - (a) Paper in journals: 23
 - (b) In conference proceedings: 27
 - (c) Invited/key-note addresses: NIL
 - (d) List of best 05 publications:
 1. Lattice Energy and Electronic Polarizability of Binary Tetrahedral Semiconductors.
V. Kumar, **G.M. Prasad** and D. Chandra

Journal of Physics and Chemistry of Solids, USA, **58** No. 3, **1997**, p. 463-465.

2. Graphical user Interface Technology in Mining.

M. Abbas and **G.M. Prasad**

The Indian Mining & Engineering Journal, **36**, No. 8. Aug., **1997**, p. 12-16.

3. Application for gas monitoring sensors in underground coal mines and hazardous areas.

A. Kumar, T.M.G. Kingson, R.P. Verma, A. Kumar, R. Mondal, S. Dutta, S.K. Chaulya and **G.M. Prasad**.

International Journal of Computer Technology and Electronic Engineering (IJCTEE), **3**, No. 3, **2013**, p.9-23.

4. Real-Time Monitoring System for Landslide Prediction using Wireless Sensor Networks.

S.K. Shukla, S.K. Chaulya, R. Mondal, B. Kumar, P. Ranjan, P.K. Mishra, **G.M. Prasad**, S. Dutta, V. Priya, S. Rath, K. Buragohain and P.C. Sarmah.

International Journal of Modern Communication Technologies & Research (IJMCTR), **2**, No. 12, **2014**, p. 14-19.

5. Elastic properties of elemental, binary and ternary semiconductor materials.

V. Kumar, J.K. Singh and **G.M. Prasad**.

Indian Journal of Pure & Applied Physics, **53**, July, **2015**, p. 429-435.

10. Number of books authored: 1 Book coauthored :

Title of the book: Sensing and Monitoring Technologies for mines and hazardous areas.

Authors: S.K. Chaulya & G.M. Prasad.

Publisher: Elsevier.

11. (a) No. of Patents granted: 02

(b) Technologies developed, Licensed and/or commercialized: 01

12. Foreign visits: NIL

13. Details of Professional memberships:

Sl.No.	Name of Society/Institution	Class of Membership
1.	Indian Science Congress Association (ISCA)	Life Member
2.	The Institution of Electronics and Telecommunication Engineers (IETE)	Life Member
3.	The Mining, Geological and Metallurgical Institute of India (MGMI)	Life Member

14. Major contributions (Max. 150 words):

(a) The developed technology entitled "Road dust collecting and briquetting system" has been transferred to M/s Tata Motors Limited, Mumbai for commercialization of the system by my continuous effort.

(b) Development of landslide monitoring for north eastern regions of India using WSN under DietY funded GAP project has been completed successfully. The system is useful in saving valuable life of the people residing near the landslide prone area. The system also reduces the risk of accidents due to landslide and helps the local authority to take immediate precautionary safety measures and start rescue operations immediately after occurrence of landslide. The innovated technology has been patented.

(c) The local methane detector (LMD) system has been developed under the project entitled "Development of feasibility assessment model for adaptation of underground coal gasification technology in the North-East region of India" which provides audio-visual alarm and automatic power cut-off of the underground mine, when concentration of methane gas exceeds its permissible limit in the mine.

(d) The project undertaken on "Development of Mining transport surveillance system for controlling illegal mining and coal transportation for North-East coalfields, Assam" is useful for improving safety and productivity. The developed system eight integrated modules for different purposes: (i) weighbridge automation (ii) centralized billing & software solution (iii) in-motion weighbridge (iv) mine periphery surveillance (v) GPS-RFID based tracking (vi) CCTV surveillance (vii) proximity warning device and (viii) wireless networking. The system has been installed at Tirap OCP of North-East Coalfields, Assam. The innovated technology has been patented and agreement has been made with M/s Dadhwal Weighing Instrument, Dhanbad for commercialization of the system.

15. Technologies and products /Services:

(i) Developed: 02

(ii) Licensed: 01

(iii) Commercialized: 01

16. Designs and Prototype Developed: 01

17. Honours and awards won for technological contributions or sociological impact of R&D: NIL.

Signature
(G.M. Prasad)