

## Bio-Data

1. **Name:** Prasad Bhukya

2. **Date of Birth:** 04/07/1991

3. **Current Position and Address**

(with E-mail & Phone no.): Scientist, Electrical Design Section  
Electrical Design & Safety Research Group  
CSIR-CIMFR, Barwa Road, Dhanbad  
Jharkhand state-826015  
Email:prasad207jntuk@gmail.com  
Cell No.:09492100207, 08986760291  
Tel No. 0326-2296003/4/11 Extt. 4277(O)



4. **Educational qualifications: (Graduation and above)**

S. No.	Degree/Certificate	Year of passing	University/Institute	Subjects	Div./Class/Grade (% marks)
01	Doctor of Philosophy <b>Ph.D. (Engg.)*</b>	Pursuing	Academy of Scientific & Innovative Research, Chennai	Engineering	---
02	Master of Business Administration <b>(M.B.A)**</b>	2016 (Tentative/pursuing)	Dr. B. R. Ambedkar Open University, Hyderabad	Finance	First Class 67.33%
03	Master of Technology <b>(M.Tech.)***</b>	2014	Academy of Scientific & Innovative Research, Chennai	Mine Safety & Engineering	First Class with Distinction 9.34 CGPA
04	Bachelor of Technology <b>(B.Tech.)****</b>	2012	Jawaharlal Nehru Technological University Kakinada	Electrical & Electronics Engineering	First Class with Distinction 74.46%

\*Ph.D. (Engg.) Dissertation topic: **“Studies on Optimization of Utilization of Energy in Mining and its Allied Industries”** under supervision of Prof. (Dr.) Debasish Basak, Senior Principal Scientist and HORG, Electrical Design & Safety, CSIR-Central Institute of Mining and Fuel Research, Dhanbad, Jharkhand state-826015 under Academy of Scientific & Innovative Research, Chennai, India.

\*\*MBA (Finance) Dissertation topic: **“A study on Capital Budgeting in UltraTech Cement Limited, Hyderabad”** under supervision of Prof. (Dr.) Rajesh C Jampala, P.B. Sidhratha College of Arts and Science, Vijayawada under Dr. B. R. Ambedkar Open University, Hyderabad, India.

\*\*\* M.Tech. Dissertation topic: **“Some Studies On Mine Electrical Safety And Assessment Of Energy Losses Of Uranium Mines”** under supervision of Prof. (Dr.) Debasish Basak, Senior Principal Scientist and HORG, Electrical Design & Safety, CSIR-Central Institute of Mining

and Fuel Research, Dhanbad, Jharkhand state-826015 under Academy of Scientific & Innovative Research, Chennai, India.

\*\*\*\* B.Tech. Dissertation topic: “*Artificial Bee Colony Algorithm for Optimal Capacitor and Distributed Generation Placement in Radial Distribution Systems*” under supervision of Prof. (Dr.) K. Ravindra, Jawaharlal Nehru Technological University, Kakinada, East Godavari district, Andhra Pradesh state-533003, India.

#### 5. Work experience:

<i>S. No.</i>	<i>Designation</i>	<i>Institution/ Company</i>	<i>From</i>	<i>To</i>	<i>Nature of work</i>
1	Scientist	CSIR-CIMFR, Dhanbad	11.04.2016	Continuing till date	Optimization of utilization of energy in mines, Non-Destructive Testing of Wire Ropes, Testing of electric and telephone cables
1	Trainee Scientist	CSIR-CIMFR, Dhanbad	05.09.2012	30.03.2016	Energy management in mining and its allied industries, Electrical Testing of cables used in Mines
2	Trainee	MECO Meters Private Limited, Mumbai	27.02.2014	27.02.2014	Operation of Power and Harmonics Analyzer for Energy auditing in industries
3	Vocational Trainee	The Singareni Collieries Company Limited, Khammam	17.06.2013	16.07.2013	Long wall working areas in SCCL
4	Summer School Trainee	Institute for Plasma Research, Gujarat	30.05.2011	08.07.2011	Design of Transformer
5	Research Trainee	CSIR-Human Resource Development Centre, Gaziabad	06.01.2013	16.01.2013	Research Methodology and Science Communications for PGRPE-12 Trainee Scientists

#### 6. Area of specialization:

Safety, Energy audit and Energy Management in Mining industries, Power quality analysis, Non-Destructive Testing of Wire Ropes, Testing of electric and telephone cables used in industries with special focus on mining industries.

**7. Honors/Awards received:**

- i. University Best Outgoing Student Award for the year 2012
- ii. Central Merit Award for the year 2008-09

**8. Fellowships/Scholarships:**

- i. Award of Bharatratna Dr. B.R.Ambedkar merit cum means scholarship-2012
- ii. Award of Bharatratna Dr. B. R. Ambedkar merit cum means scholarship-2011

**9. No. of Research Publications: 06**

- Papers in journals: (a) International journal-02 (b) National journal-02
- In conference proceedings:(a) National conference-02
- Invited/key-note addresses: Nil
- List of best 05 publications:
  - (1) Prasad Bhukya and Debasish Basak, “Energy Saving Technologies in Industries - An overview”, *International Journal of Scientific and Research Publications*, Volume 4, Issue 4, April 2014, pp. 499-504, ISSN 2250-3153. (**Impact factor: 2.07**).
  - (2) Prasad Bhukya and D. Basak, “Status of Mining Industries in Energy Consumption point of view and steps to be implemented by Management for Green Sustainability” presented in Geomintech Symposium on New Equipment - New Technology, Management and safety in Mining and Mineral based Industries coinciding with National Technology Day Celebrations held at Bhubaneshwar, India, 11-12<sup>th</sup> May, 2014.
  - (3) Prasad Bhukya, “Preliminary electrical energy audit analysis of mineral based industry”,*International Journal of Scientific and Research Publications*, Volume 4, Issue 5, May 2014, pp. 277-232, ISSN 2250-3153. (**Impact factor: 2.07**)
  - (4) Prasad Bhukya and Debasish Basak, "Need of Electrical Safety Audit and Energy Management in Industries - A Review”, *Indian Mining & Engineering Journal*, Vol. 53 No.05, May 2014, pp. 08-17, The IME Publications, ISSN 0019-5944.
  - (5) Prasad Bhukya and D. Basak, “Status of Mining Industries in Energy Consumption point of view and steps to be implemented by Management for Green Sustainability”, *Geomintech: The Indian Mineral Industry Journal*, pp. 97-103, Iss No.7, July-Sept/ENTMS 2014.

**10. Number of Books authored/edited:Nil**

11. (a) No. of Patents granted/applied for: Nil
- (b) Technologies developed, Licensed and/or commercialized: Nil

**12. Foreign visits:Nil**

**13. Details of Professional memberships:**

- (1) **Associate Member (AMIETE)** of The Institution of Electronics & Telecommunication Engineers (IETE),
- (2) **Associate Member (AMIE)** of The Institution of Engineers (India),
- (3) **Member** of The International Association of Engineers (**IEANG**),

**14. Major contributions:(Max. 150 words)**

It can be concluded that mine electrical safety and energy management is really daunting in industries especially in mining industries. Electrical energy audit is carried out in two different phases in months of October, 2013 and April, 2014 respectively. Whole audit (preliminary and

detailed audit) has been carried out at Narwapahar mines, a constituent of Uranium Corporation of India Limited, Govt. of India.

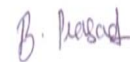
Detailed audit analysis shows that industry is facing major electrical or technical issues such as poor power factor, voltage & current unbalance in electrical system, reactive power compensation, maximum demand charges and harmonics which results in failure and damage of equipment's, cables and other electrical accessories. All these technical issues result in increasing running and maintenance cost of machineries and cables thus enhancing overall energy cost. As per energy conservation point of view, company didn't step towards installation any power quality controlled devices except static capacitors at main receiving sub-station. Nondestructive evaluation and advice on the condition and behavior of steel wire ropes in mining and aerial ropeway installations is the basic area of interest of the candidate.

**15. Technologies and Products/ Services: Nil**

- (i) Developed: Nil
- (ii) Licensed: Nil
- (iii) Commercialized: Nil

**16. Designs and Prototype Developed: Nil**

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



Signature