

1. Contact Information:

Name: Dr. Baidya Nath Roy
Address: Assistant Professor,
Metallurgical Engineering Department.
B.I.T.Sindri, Dhanbad, Govt of Jharkhand, India.
PO-Sindri Institute, PIN-828123.
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2. Objective: I am willing to give total support to the organization that I am in, with the experience, capability and innovative approach that I have earned throughout my life, in order to achieve organizations goal and create mutual benefits.

3. Personal Information:

Date of birth: 27/09/1963
Father's Name: Sri Madhusudan Roy
Mother's Name: Smt.Subhadra Devi.
Place of Birth: Deshrajpur (PO-Mahanar, Dist-Vaishali, Bihar, India.)
Citizenship: Indian
Gender: Male
Marital Status: Married

4. Academic Information:

(a)Ph.D (Feb -2010). Metallurgical Engineering,
V.B.University, Hazaribag, India.

Specialization : **Process Metallurgy & Material Engineering.**

Ph.D. Topic "Study of the Effect of Heat Treatment Temperature (HTT) on the Property of Graphite Obtained from Waste Carbonaceous Material for Industrial Applications."

(b) M.Sc. Engineering (2004): Metallurgical Engineering,
NIT Jamshedpur, India.
Specialization : **Process Metallurgy.**

(c) B.Sc.Engineering (1983-87): Metallurgical Engineering,
RIT Jamshedpur, Ranchi University, Jharkhand, India.
Branch : **Metallurgical Engineering**

5. Present Employment: Assistant Professor, , Metallurgical Engineering, **B.I.T.Sindri,**

6. Employment History:

Working Experience: More than 27 Yrs. (As on 01.10. 2015).

Name of Employer	Address	Designation	Period	Nature of Job
GFL	Jamshedpur, India	Project Engineer	01.10.88— 03.08. 95	Supervision of the ongoing Projects running in different steel Plants in Eastern India
Indian Railway	Locomotive Workshop, Jamalpur(Eastern Railway)	C.M.A	04.08. 95--- 05.01. 99	Failure Investigation, Inspection & Quality Control.
RIT Jamshedpur	RIT Jamshedpur,(NIT.JSR)India	Lecturer (Adhoc)/ contractual	06.01. 99--- 6.01.2000	Teaching as a Lecturer in the Deptt. Of Metallurgical engineering.
BIT Sindri	Govt of Jharkhand, Deptt. of Higher & Technical Education, Govt. of Jharkhand	Asstt. Professor (Regular/Permanent).	continuing from 24.05 2000	Asstt. Professor in the Deptt. of Metallurgical Engineering (Promotion into Associate Professor is due from 24.5.2010 & AGP 9,000/- is due from 24.5.2013)

[** Promotions as an Associate Professor& Professor is due from 24.05.2013& 24.05.2016 respectively in the state govt . secretariate].**

7. Computer Skills: MS Office, Internet, Programming in C++.

8. Research Skills: Extensive Knowledge of Chemical Analysis, Petrography, Metallographic &c.

9. Publications : International Journals - 09

[i] “Solid waste generation in steel plants and its Reutilization “by S.N.Sinha,M.K.Agrwal,B.N.Roy. Proc.*Intern* Workshop on Environment and waste Management (EWM-1999) NML.Jsr. ISSN 0971-9407Pp 177-191.

[ii] Precautionary Measures in determining volatile matter in natural coke Washability fractions”by A,Int. J.of Coal Preparation and Utilization,vol-29 ,P34-47,2009,ISSN:1939-2699 print/ 1939-2702 online (Tailor & Francis Group).

[iii] “Uncertainty in Damage Assessment and Remaining Life Prediction of Engineering Materials Used In Petrochemical Industry” Int.J.of **Petroleum &**

Environmental,Biotechnology,Vol 5,Issue 4 (2014).ISSN 2157-7463.Ray & Roy et al., J Pet Environ Biotechnol 2014, 5:4 <http://dx.doi.org/10.4172/2157-7463.1000>

[iv] “Problem & Solution of Lean grade ores & ore fines”. LGO 2013 held in N.M.L.Jamshedpur, Proc. Of 26th National convention of Metallurgical & Materials engineers. Proc. Of 26th National convention of Metallurgical & Materials engineers and National Seminar on exploitation of lean Grade Ore, ore fines & Urban ores: Challenges ,problem & Solution on 22-23 Jan,2013 at NML Jamshedpur. www.lgo2013.weebly.com

[v] “Structural integrity of service exposed primary reformer tube in petrochemical industry”, Accepted for publication on 20 Oct 2015 in International Journal of Pressure Vessels and Piping,<http://dx.doi.org/10.106/j.ijpvp.2015.10.003>,ISSN: :0308-0161,Corresponding Author: Ashok Ray A.K.Ray, NilimaRoy, AnantRaj, B. N Roy.

[vi] “Studies on Amorphous Alloys Dispersed Aluminium Matrix Composite Prepared by High Pressure Torsion”S.Hembrom,B.N.Roy,N.Khobragade& D.Roy,ISSN: 1927-0585 E-ISSN 1927-0593,International Journal of Material Science Research;Vol.5,No.1;2016,p1-8.

[vii] “Comparative Study of Conventional and Hybrid Microwave Sintering of Aluminium and Manganese based Nanocomposites.” S.Hembrom,B.N.Roy,G.Kumar,published in International Journal of Engineering Technology ,Management and Applied Sciences,Vol.3,Issue 8,ISSN :2349-4476,p144-147.

[viii] “Life Estimation and Creep Damage Quantification of Service Exposed Reformer Tube”,A.Raj,N.Roy,B.N.Roy& A.K.Ray.,published in High Temp.Mater.Processes.2015; ISSN :1093-361134(7):731-742.

[IX] “Creep Deformation and Damage Evaluation of Service Exposed Reformer Tube”, N.Roy, A.Raj,B.N.Roy& A.K.Ray.,published in Canadian Metallurgical Quarterly,ISSN: 0008-4433,(2015),vol.54,No 2,205-222.

“Studies on Mechanical properties of Al base nanocomposite”. Int. J. of Scientific and Engineering Research.ISSN-2229-5518.(2016)Vol-7,Issue-2,Feb.2016,pp528-535.

10. Publications in National Journals : 09

[i] Influence of HTT on physico – mechanical properties of synthetic graphite for specific industries” National Journal, MINTECH, vol.29, No-2, P35-48.

[ii] “Studies on Amorphous Alloy Dispersed Aluminium Matrix composite prepared by High Pressure Torsion.” S.Hembrom,B.Mardi,B.N.Roy, & D.Roy ,presented in IIM-NMD-ATM – 2013,at IIT (BHU),Varanasi.on the occasion of 51st National Metallurgist Day on 12-15 Nov, 2013.

[iii] “Smelting of sponge iron fines for the production of steel grade iron” B.N.Choudhary, B.N.Roy, A.K.Vaish & S.D.Singh, Published in Journal of Metallurgy and Material Science, ISSN-0972-4257, Vol.56, No. 2, April-June 2014, pp 107-116.

[iv] “Resource, Energy and environment: A Thermodynamic Approach “. On the occasion of All India seminar on REENT ADVANEMENT IN MANUFATURING AND ITS MANAGEMENT (RAMM -14) FEBRUARY 07-08, 2014 ORGANIZED BY Institution of engineers (India), Dhanbad local centre in association of B.I.T.Sindri).

[v] “Problem of Lean grade ores and ore fines” in National seminar on Exploitation of Lean grade ore, Ore fines Urban Ores: Challenges, problem and Solution, LGO-2013 and 26th National Convention of Metallurgical and material Engineers at NML. Jamshedpur during 22-23 Jan-2013.

[vi] “Alternative ways and means for safer, cheaper energy & green revolution”, EES-2013, Energy and Environment Susaptibility, March, 16-17, 2013 held in BIT Sindri.

[vii] “Present status of refractory industries in our country”, National workshop on Technological Up- gradation of Down-draught Kilns and Sustainability of Indian Refractory Industry” on October 25, 2013 at CIMFR, Digwadih Campus, Dhanbad.

[viii] “A step toward combating nuclear waste “, INCO – 2012, B.I.T.Sindri. National seminar on Indian nuclear power programme: Challenges and Opportunities” april 14-15, 2012.

[ix] Role of creative Method to Technical and Industrial Problem” Proc. Of NWIII-2007, P71-82. At BIT Sindri, Jul-13-14, 2007.

11. Presentation in National Seminar/Workshop/Conferences: 22

[i]. “Studies on Amorphous Alloy Dispersed Aluminium Matrix composite prepared by High Pressure Torsion.” S.Hembrom, B.Mardi, B.N.Roy, & D.Roy , presented in IIM-NMD-ATM – 2013, at IIT (BHU), Varanasi, on the occasion of 51st National Metallurgist Day on 12-15 Nov, 2013.

[ii] “Smelting of sponge iron fines for the production of steel grade iron” B.N.Choudhary, B.N.Roy, A.K.Vaish & S.D.Singh, Published in Journal of Metallurgy and Material Science, ISSN-0972-4257, Vol.56, No. 2, April-June 2014, pp 107-116.

[iii] “Resource, Energy and environment: A Thermodynamic Approach “by . On the occasion of All India seminar on REENT ADVANEMENT IN MANUFATURING AND ITS MANAGEMENT (RAMM -14) FEBRUARY 07-08, 2014 ORGANIZED BY Institution of engineers (India), Dhanbad local centre in association of B.I.T.Sindri).

[iv] “Post Industrialization Environment”, on the occasion of World Environment Day 2014, June 05, 2014, Jontly organized by Institution of Engineers (Dhanbad Local Chapter) & BIT Sindri, Proc.of World Environment Day 2014, Page 45-50.

[v] “Problem & Solutions of Lean grade ores and ore fines” by B.N.Choudhary, B.N.Roy, A.K.Vaish, S.D.Singh, in National seminar on Exploitation of Lean grade ore, Ore fines Urban Ores: Challenges, problem and Solution, LGO-2013 and 26th National Convention of Metallurgical and material Engineers at NML. Jamshedpur during 22-23 Jan-2013.

[vi] “Alternative ways and means for safer, cheaper energy & green revolution”, by B.N.Roy, EES-2013, Energy and Environment Susaptibility, March, 16-17, 2013 held in BIT Sindri.

- [vii]** “Water Co-operation “by B.N.Roy, on World Water Day, WWD-2013, at BIT Sindri on 22nd Mar-2013.
- [viii]** “Present status of refractory industries in our country”, by B.N.Roy, National workshop on Technological Up- gradation of Down-draught Kilns and Sustainability of Indian Refractory Industry” on October 25, 2013 at CIMFR, Digwadih Campus, Dhanbad.
- [ix]** “A step toward combating nuclear waste “by B.N.Roy, INCO – 2012, B.I.T.Sindri. National seminar on Indian nuclear power programme : Challenges and Opportunities” april14-15,2012.
- [x]** “Prospect of Jhama coal of Damodar Valley coal field of India for its industrial application”, by B.N.Roy, Proc. National Seminar on Technological challenges of 21st century- The road Ahead under TEQIP at B.I.T.Sindri, Feb.2008.
- [xi]** “Training programme on Extraction of Nonferrous metals and their Recycling (NFTP-2008) in NML Jamshedpur from 27-29 Feb, 2008.
- [xii]** “State of art in graphitization of carbonaceous materials” ,by A.K.Singh,B.N.Roy,Invited lecture, National Workshop on modern carbon products and processing, Indian Carbon Society, at NPL, New Delhi,) on 03 Mar-2008.
- [xiii]** “National seminar on Environmental issue on Geotechnics and Mineral Industries from 4-5 April 2008 at BIT Sindri, Dhanbad.
- [xiv]** “Active role to be played for the flate rolling practices in India”, by B.N.Roy ,Proc. National Workshop on Emerging trends in flate rolling –Processes & Products, on 14th Nov.2008, BSL, Bokaro.
- [xv]** “National workshop on Technological Excellence through Value Engineering under TEQIP, 7th April-2007.
- [xvi]** “Role of creative Method to Technical and Industrial Problem” ,by A.P.Burnwal,B.N.Roy,Proc. Of NWIII-2007, P71-82. At BIT Sindri, Jul-13-14, 2007.
- [xvii]** “National workshop on “Technical excellence through value Engineering”, Under TEQIP-I, 7th Apr-2007.
- [xviii]** “Reduction in Raw material consumption during sintering by the use of steel plant solid waste”, N by U.S.Yadav,B.N.Roy ,MD-ATM 2005, IIT Chennai.
- [xix]** “Towards a way to improve the water scarcity on earth”. by B.N.Roy ,World water day 2014, jointly organized by Inst.of Engineers & B.I.T.Sindri.
- [XX]** “Green Environment through steel plant solid waste management”, National Seminar on Environment, Conservation and Management on Feb 26-27, 2016 in B.I.T.Sindri ISSN: 978-93-85777-28-8 page no-75-81.
- [XXI]** “Fluoride toxicity in Indian sub-continent-A Review” , National Seminar on Environment, Conservation and Management on Feb 26-27,2016 in B.I.T.Sindri ISSN : 978-93-85777-28-8 Page no101-109.
- [XXII]** “Study of the role of green technology to overcome ozone depletion related problem”, National Seminar on Environment, Conservation and Management on Feb 26-27, 2016 in B.I.T.Sindri ISSN: 978-93-85777-28-8 Page no 133-138.
- [XXIII]** “Green Environment through steel plant solid waste management”, 75-81 National Seminar on Environment, Conservation and Management on Feb 26-27, 2016 in B.I.T.Sindri ISSN: **978-93-85777-28-8.**

[XXIV] “Fluoride toxicity in Indian sub-continent-A Review”, Page no101-109 National Seminar on Environment, Conservation and Management on Feb 26-27, 2016 in B.I.T.Sindri, ISSN: **978-93-85777-28-8**.

[XXV] “Study of the role of green technology to overcome ozone depletion related problem”, Page no 133-138 National Seminar on Environment, Conservation and Management on Feb 26-27, 2016 in B.I.T.Sindri ISSN: **978-93-85777-28-8**.

12. Short Term Courses Attended: Total 21- Weeks

[i] 02 weeks course on ISTE sponsored “productivity & prosperity through Safety engineering and management during Mar 31st to April, 2001.

[ii] 02 weeks course ISTE sponsored “ GEO-MINING APPLIATIONS IN MINING AND ALLIED AREAS’ from 29.10.01 to 10.11.2001 at BIT Sindri

[iii] Composite material: Fatigue, Fracture and Failure analysis, 6-10th Nov-2006, ISTE, QIP, STTP, IIT, Bombay, [01 Week].

[iv] Selection of Steel for Engineering Application, Feb12-23, 2007, ISTE, QIP, STTP, NIFFT, Hatia, Ranchi, India. [02Week].

[v] Programming in C++, June 18-29, 2007, ISTE, QIP, STTP, NITTTR, and Kolkata. [02 Weeks].

Extraction of non-ferrous metals and their recycling (NFTP-2008), 27-29th Feb-2008. [01 Week].

[vi] 02 weeks, Participated in AICTE approved STTP under staff Development programme on selection of Steels for engineering application held at NIFFT Hatia, Ranchi during Feb 12-23, 2007.

[vii] Participated in 01 week QIP Short term course on Composite materials: Fatigue, Feature and Failure Analysis conducted by IIT Bombay during Nov06-10,2006.

[viii] Training related to Teaching Skill Development: Mission 10X by BIPRO, at B.I.T.Mesra, Ranchi. [01 Week]. From 22nd November to 26 nov.2010

[ix] Pedagogy –II, Oct.14-19, 2008, at BIT Sindri, by Deptt. Of Science and Technology, Govt.Of Jharkhand. [02 Weeks].

[x] 02 weeks course, ISTE, STTP on “Performance Enhancement Skills”, during July 23 to Aug 03, 2012 at BIT Sindri.

[xi] 01 QIP STTP on “Application of Renewable Energy Sources”, Dec. 11 – 17, 2013 at IIT Delhi .

[xii] 02 weeks course, ISTE, STTP on “Personality Development”, during Oct26 to Nov06, 2015 at BIT Sindri.

13. Management Training Attended:

- ❖ MDP on Creativity, Problem Solving & Decision making at XLRI, Jamshedpur. held during De11-15,2006 at irs MDP entre Jamshedpur.
- ❖ MDP on Managing Technology and Innovation by XLRI, Jamshedpur, held during Nov01-02, 2006 at Kolkata.

14.Participation in Other Society Work:

Render valuable service as Member in the panel of Judges in the Jharkhand State level National children Science congress -2011 held during Nov, 11-13, 2011 at CIMFR, Dhanbad.

15.Member of Professional bodies:

- ❖ LM of MGMI, Kolkata – (LM -
- ❖ LM of ISTE, New Delhi.- (LM -

16.Official Interests:

- ❖ Time Efficient, Systematic working, Innovative
- ❖ Rapid adaptability to problem solving.

17.Personal Interest :

- ❖ Reading (marketing communication, Management Psychology, Life Style)
- ❖ Music (Bhojpuri, Purbi, Nirgun)

18.Extra Curricular Activities :

Gym, Fitness, yoga, football.

19.Other Activities :

- ❖ As one of the Jury – member s for judging the performance of the regular students upto +2 level of Jharkhand State in DPS, **Bokaro**
- ❖ As a jury member /Judge in the district level Inspire Award Scheme of the district of **Dhanbad**.

20.Teaching skill:

Teaching of B.Tech as well as M.Tech students in the following Subjects

- ❖ Foundry Tech.
- ❖ Powder Metallurgy,
- ❖ Material Engineering,
- ❖ FRF,
- ❖ Mineral Processing.
- ❖ Metal Joining Technology
- ❖ Composite Material
- ❖ Thermodynamics etc.

21. Other Achievements:

Administrative:

- ❖ Asstt. Hostel Superintendent in the present Institution from 2000-07
- ❖ Hostel Superintendent in the present Institution from 2007 to 2012.
- ❖ Event Organized and Participated: Organized Science for society in the backward rural area of Sindri and Dhanbad in the capacity of Vice-Precedent of Science for society.

- ❖ Asstt. Prof- in -charge (Academic)/ Asstt Registrar in BIT SINDRI at present since last 02 Yrs.
- ❖ Member of Departmental Research Council, VBU, Hazaribag, Jharkhand.
- ❖ Member of Disciplinary committee of B.I.T.Sindri.

22. Supervisory Skill:

- (a) 11 yrs of industrial supervisory skill before joining in present Institution B.I.T.Sindri.
- (b) Supervision of B.Tech Level projects made by the students for the purpose of getting their Degree.

23. Research Guidance:

- (a) Ph.D Scholars- 02 (In Progress)
- (b) M.Tech project-04(In Progress)

References: Excellent References may be made available on request.

Signature