

Profile of Prof. (Dr.) Bharat Raj Singh,

Director General (Technical),
School of Management Sciences, Technical Campus, Lucknow-226501,
Uttar-Pradesh, India.



Dr. Singh was born in 1946 at Village: Raibigo, PO:Kadipur, District: Sultanpur, UP, India. He received B.E. (Mechanical) degree, from SV Regional Engineering College (now SVNIT), Surat, South Gujarat University, India in 1972, M.E. (Analysis & Design of Process Equipments), from Motilal Nehru Regional Engineering College (now MNNIT), Allahabad University India in 1988 and Ph.D. from U.P. Technical University (now GTU), Lucknow, India in 2011.

- Dr Singh has more than 5 decades experience pertaining to Industry, Administration and Academics. Served **32 years in various Government Organizations** and retired as Managing Director, UP Rajkiya Nirman Nigam, Lucknow and has been serving for the last **22 years in academics** at various positions and is now working as Professor and Director General (Technical), School of Management Sciences, Lucknow.
- Dr. Singh has earned credit for the developmental works in the State of Uttar-Pradesh and has successfully finished projects of about 13-Sugar Mills, 14- Textile Mills, BHEL, Jagdishpur and Varanasi. He had been an instrumental officer in saving of approx. Rs.13 crores from the State Budget of construction works during his tenure as Chief General Manager, UPRNN.
- He has set many mile stones in the state of Uttar-Pradesh, while executing projects much before its schedule-period. A few of them are: State Sugar Mill, Rae-Bareilly in 13 months against its schedule of completion period of 48 months (i.e. in January 1980) and BHEL, Jagdishpur insulator plant project in 18-months time against the targeted period of 24 months (i.e. in 1981). For the said achievements, UPRNN was felicitated by the state government for creating new records in the construction field during the year 1981.
- Dr Singh is a recipient of many recognitions and awards. A few of them are:
 - (i) **State scientific award-1965** by Hon. Governor of Uttar-Pradesh, Sri Vishwanath Das,
 - (ii) **Best officer award-1981** for creating land marks in the Project Activities.
 - (iii) **Samaj Sri National award-1994** for earth quake relief work.
 - (iv) **Chief Minister of UP** recognition in **2003** and
 - (v) **Shiksha Gaurav -2012 award** by Uttar Pradesh Award Society.
 - (vi) **Certificate of Excellence-2012** for the Contribution made as Coordinator (RC-1247), Aakash Workshop organised by IIT-Bombay at School of Management Sciences, Lucknow held on 10-11 Nov. 2012.
 - (vii) **Life Time Achievement Award-2012**-conferred by International Society of Agile Manufacturing, USA & IIT-BHU, Varanasi in recognition of illustrious contribution in promoting Engineering & Professional Education on December 16, 2012.
 - (viii) **Limca Book of Award-2014** (edition) launched on March 6, 2014; Entry features: First compressed air-powered bike

- (ix) **Rashtrya Ratan Award-2014**-conferred for outstanding and extra-ordinary achievements and services rendered to promote greater friendship and India-International co-operations by 'Friendship Forum' New Delhi, on March 29, 2014.
 - (x) **CEE Teacher's Award-2014** -conferred on 6th Sep' 2014 at New Delhi organised by Confederation of Education Excellence, ECON, New Delhi. Felicitated by Padma Vibhusan Prof. Yash Pal & Hon. VC, UPTU, Dr. RK Khandal.
 - (xi) **National UP Technical Education Award-2014**-conferred for Excellence in Education to Prof.(Dr.) Bharat Raj Singh, Director, SMS, Lucknow on 29th Nov. 2014-by President, CMAI Association of India, New Delhi.
 - (xii) **The Legends of India Award-2014**-conferred for Excellence in Innovation & Education to Prof.(Dr.) Bharat Raj Singh, Director, SMS, Lucknow on 21st Dec. 2014-by President, myGreen Card, Lucknow.
 - (xiii) **Limca Book of Record-2015(edition)**- featured on January 21, 2015, as: First academicians' work in US school text book: Can Glacier & Ice melt be reversed? - Launched on Feb 21, 2014 at New York, United States - for High School Grade (9-12th) Standard.
 - (xiv) **Lifetime Observer Award-2015** felicitated at Varanasi on 31st January' 2016.
 - (xv) **Shiksha Gaurav Puraskar-2016**-was felicitated by Centre for Education Growth and Research (CEGR) to Prof Bharat Raj Singh , Director, SMS, Lucknow on sep 21, 2016 at New Delhi by Chairman, AICTE and other dignitaries.
 - (xvi) **Sahitya Gaurav-2017**-was felicitated on 19th March 2017 at Sahitya Sansthan, MG Marg, Lucknow.
 - (xvii) **Gomti Shri-2017**: Vishisht Nagrik Samman-Invitation was issued by Gomti Nagar Jankalyan Mahasamiti, Lucknow –President & General Secretary on April 08, 2017- in recognition of the contribution made to protect "Environment and Climate Change" and made awareness amongst Society at large.
 - (xviii) **Limca Book of Awards-2017**- Global warming awareness campaign – on 21 May 2017.
 - (xix) **Best Academician Award-2018** - by AKTU on 5th Sep 2018
 - (xx) **Global Teacher Award 2021** - by AKS Education Awards on 24th Oct 2021 and many more....
- **Dr Singh** has been a very creative and in depth thinker during his academic career. That is why; he switched over to academic again after his retirement to fulfill the gap of scientific requirements and to serve the society as a whole by imparting his experiences to the future of society (i.e. Students). For the last 10 years, he is working on the burning issues of Global Warming. He has invented an air engine which could run on compressed air releasing zero emission. Its engine size is 4 inches in diameter and produces 5.5 HP (4.1 Kw) power to run any motorbike without releasing Green House Gases. He has achieved this due to his untiring efforts made during 2005 to 2010. His air engine is now patented with Govt. of India patent department and is now tried on motorbike successfully. He has claimed that if this technology is used in two-wheeled vehicles, it can curb carbon emission to about 50-60% and can reduce the effects of higher frequency of Tsunamis, Hurricanes, Rise in sea level, Health hazards due to Global warming and issues related to frequent change in climate.
 - This invention is considered a utopia and has gathered worldwide acceptance / presence via Radio News, TV Channels, and Print Media in more than 200 countries of the World such as: USA- Colombia, California, Texas and New York; Canada, France, Germany, Kuwait, Iran, Oman, Pakistan, India, China, Taiwan, Thailand (Bangkok), Bulgaria etc..

Publications of Journal Papers & Books:

- **Dr. Singh** has been working on **Carbon Foot Print, Environmental issues** and has published more than **155-papers** in leading *International/National Journals and Conferences, Symposium and Seminars*.
- **Dr.Singh** published **21-Books and 29-Book Chapters**:
 - 1) **Development and Analysis of a Novel Air Engine**; ISBN: 978-3-8443-8171-9; Lap LAMBERT Academic Publishing, UK.
 - 2) **The Impact of Air Pollution on Health, Agriculture and Technology**; ISBN: 978-953-307-528-0, Full Chapter: Influence of the air Engine on Global Warming Issues - 21st Century Fuel Technology; InTech Open Access Publisher, Rijeka, Croatia.
 - 3) **Fossil Fuel and The Environment**; ISBN: 979-953-307-561-6, Full Chapter: Global Trends of Fossil Fuel Reserves and Climate Change in the 21st Century; InTech Open Access Publisher, Rijeka, Croatia.
 - 4) **A Hand Book on Friction Stir Welding**; ISBN: 978-3-659-10762-7, Lambert Academic Publishing, GmbH & Co. KG, Germany, UK.
 - 5) **Global Warming - Impacts and Future Perspective**: Book edited by: Prof. Dr. Bharat Raj Singh; ISBN: 979-953-307-820-4, DOI: 10.5772/2599 Publisher: InTech Open Access Publisher; 352 pages, on 19 September 2012.
 - 6) **Climate Change - Realities, Impacts Over Ice Cap, Sea Level and Risks**: Book edited by: Prof. Dr. Bharat Raj Singh; ISBN: 978-953-51-0934-1; DOI: 10.5772/3459 Publisher: InTech Open Access Publisher; 508 pages, on 16 January 2013, Rijeka, Croatia.
 - 7) **Text Book - Can Glacier and Ice Melt Be Reversed?** - Book Authored by: Roman Espejo; ISBN:978-073-77-6826-8, Publisher: Cengage Learning Publishing, 104 pages, Price:\$35.95 ; Text Book-USA Chapter:7-from Prof. BRSingh.
 - 8) **Modeling and Simulation of Dynamics of Half Car Using Bond Graph**: by Manoj Kumar, Bharat Raj Singh and MA Faruqui; ISBN:978-3-659-61086-8; Publisher-Lambert Academic Publishing, GmbH & Co. KG, Germany, UK, on 23 Sep 2014.
 - 9) **Global Warming - Causes, Impacts and Remedies**: Book edited by: Prof. Dr. Bharat Raj Singh; ISBN: 978-953-51-4123-5, DOI: 10.5772/58506 Publisher: InTech, Croatia, published on April 22, 2015.
 - 10) **Higher Education Faculty Career Oriented & Advancement**-Book edited by: Dr. Manpreet Singh Manna, Director, AICTE, New Delhi; **ISBN**: 978-81-933475-9-1. Publisher: Center for Education Growth & Research (CEGR), published in 2017.
 - 11) **Environmental Studies**-Book edited by: Dr. DS Chauhan, Dr Anil Kumar et al., CEGR, New Delhi; **ISBN**: 978-81-933475-0-3. Publisher: Center for Education Growth & Research (CEGR), published in Dec 2017.
 - 12) **Research Methodology**-Book edited by: Dr. KK Aggrawal, Dr Bharat Raj Singh et al., CEGR, New Delhi; **ISBN**: 978-81-935740-2-7. Publisher: Center for Education Growth & Research (CEGR), published in Dec 2017.
 - 13) **Innovation Technology Management**-Book edited by: Dr. AP Mittal, Dr Prabhat Mittal et al., CEGR, New Delhi; **ISBN**: 978-81-935740-3-4, Publisher: Center for Education Growth & Research(CEGR).This book is published in Dec 2017:
 - 14) **The Vibration of Heat Exchanger Tubes**-Book written by: Prof Bharat Raj Singh & Late Prof. Dinesh Jha, **ISBN**: 978-1794791848, published on 7th Dec 2019 at Lulu Press Inc., United States of America.

- 15) **Yoga Philosophy-How to keep Soul, mind and body aligned & healthy?** is written by Prof. Bharat Raj Singh, Shri Satish Kumar Singh & Shri Mukesh Kr. Singh published by M/s. Lulu Press Inc., USA; ISBN: 978-1-716-63515-1 on 18th Dec 2020.
- 16) **Role of Education in Combating Climate Change** - edited by Prof. Bholanath Dutta Founder & President- MTC Global and published by MTC Global Research and Publication, Bangalore, India, **ISBN:978-81-945913-0-6**, on 26 Oct 2020 (Book Chapter-5).
- 17) **E-waste Management & Procurement of Environment** - edited by Dr. Suresh Kumar & Dr. Jitra Kumar Pradhan and published by Authors Press, New Delhi, India, **ISBN: 978-93-90588-87-9**, on 23 May 2021 (Book Chapter-9).
- 18) **Ancient Indian Wisdom: For Sustainable Wellbeing-** edited & published by SMS, Varanasi: Printed by: Varanasi, India, ISBN: 978-93-88019-87-3, on 26 May 2021 (Book Chapter-5).
- 19) **Indian Traditional Wisdom: Revisiting the Relevance-** edited & published by SMS, Varanasi: Printed by: Varanasi, India, ISBN: 978-93-88019-86-6, on 27 May 2021 (Book Chapter-1).
- 20) **Yoga Philosophy-How to keep Soul, mind and body aligned & healthy?** is written by Prof. Bharat Raj Singh, Shri Satish Kumar Singh & Shri Mukesh Kr. Singh; ISBN: 978-6-203-20122-2, published by LAP-Lambert Academic Publishing, London, on 12th Jan 2021 and **5-Books in other International Languages** on 17th Aug 2021 such as: Italian (ISBN: 978-6-204-01629-0), French (ISBN: 978-6-204-01626-9), German (ISBN:978-6-204-01624-5), Portuguese (ISBN:978-6-204-01627-6) and Russian (ISBN:978-6-204-01634-4).
- 21) **E-waste in India: Management, Challenges & Opportunities Volume-I, ISBN 978-93-91314-55-2, October 2021-**edited by Dr. Suresh Kumar being published by Authors Press, New Delhi on Oct 2021 (Book Chapter-1).

Patents:

- **Rotary & Vane Type Air Engine** -Patent office, Govt. of India- Registered on **08th October 2010** and published in Journal of Patent on **13th April 2012** and final patent **Certificate Ref No. 342731 dated July 28, 2020**
- **Novel Suspension System For Rural Roads Ride Comfort: Journal Patent Office, Govt. of India:** Patent Journal - Published Upto Date & Published in - Official Journal On 25 Apr 2025 / Application No.202511032688 Date:02/04/2025 and Publication Page No.38802, Date: 25/04/2025.

Specialization:

Dr. Singh's areas of Specializations are:

- Unconventional Manufacturing Processes, Industrial Engineering, Thermodynamics and Automobiles and Research field is in Sustainable Energy Resources, Environment and Development of Zero Pollution Air Engines.
- Novel Suspension System For Rural Roads Ride Comfort for four wheeled automobile vehicles.

Members of Editorial Boards/ Advisory Boards

Dr. Singh is a:

- **Member of Editorial / Advisory Boards** of about **49- leading International Journals,**
- **Reviewer of many Journals** such as: ASME, USA; IMechE, UK, Elsevier, Journal of Mechanical Engineering, Korea; Academic Journals, Africa; World Academics of Science, Engineering and Technology, Turkey etc. and **reviewed** approx. **575- papers.**

- **Member of Technical Expert:**

- a) Member of Institution of Engineers (India) in 1978, Chartered Engineer (India) in 1985, Fellow (FIE) in 1985, No: FIE-010857 / 06.
- b) Member of International Association of Engineers; IAENG-105641 (M) in 2010.
- c) Council of Science & Technology, Govt. of UP-for 3-Years vide OM:CST/D-2330 dated: Dec. 04, 2013.
- d) Life Member-The Indian Society for Technical Education (ISTE), India-LM94486, in 2014.
- e) Member of UP Regulatory Commission, Govt. of UP, issued vide Notification no: UPERC/Secry./SAC/080 Dated: 28 May 2021 and continuing.

Postal address:

Prof. (Dr.) Bharat Raj Singh

5/323, Viram Khand, Gomati Nagar,
Lucknow-226010, Uttar-Pradesh, India.

Email:brsinghlko@yahoo.com; brsinghlko@gmail.com

Mob: +91-9415025825, +91-9935025825;

(For more details visit: <http://www.brsinghindia.com>)