

Profile of Prof. (Dr.) Bharat Raj Singh
Director General (Technical),
School of Management Sciences, Technical Campus, Lucknow-227125,
Uttar-Pradesh, India.

Dr. Singh was born in 1947 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 GBTU), Lucknow, India in 2011.



Dr Singh has approx. 48-year's 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 15-16 years in academics at various positions and is now working as **Director General (Tech)** and **Professor in Mechanical Engineering** at **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. 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:

- a) **State scientific award** by Hon. Governor of Uttar-Pradesh, **Sri Viswanath Das** in 1965,
- b) **Best officer award** for creating land marks in the Project Activities in 1981.
- c) **Samaj Sri National award** for earth quake relief work in 2004.
- d) **Chief Minister of UP** recognition in 2003 and
- e) **Shiksha Gaurav -2012 award** by Uttar Pradesh Award Society.
- f) **Year,2012-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.
- g) **Year 2012-13-Certificate of Excellence-** for the Contribution made as **Coordinator (RC-1247)**, at School of Management Sciences, Lucknow:
- h) **Limca Book of Award-2014** (edition) launched on March 6, 2014;Entry features: **First compressed air-powered bike**
- i) **Rashtrya Ratan Award-2014-** conferred for outstanding and extra-ordinary achievements and services rendered to promote greater friendship and India-International co-operations by '**Freindship Forum**' New Delhi, on March 29, 2014.
- j) **National UP Technical Education Award-2014**-conferred for Excellence in Education on 29th Nov. 2014-by President, CMAI Association of India,
- k) **Limca Book of Award-2015** (edition) launched on January 21, 2015; features: First academicians' work in US school text book: **Can Glacier & Icemelt be reversed?** -launched on Feb 21, 2014 at New York, United States - for High School Grade (9-12th) Standard.
- l) **Limca Book of Award-2017** (edition) launched on May 25, 2017; features: First Institute SMS for **Global Warming Awareness Campaign** and its Director, Dr. Singh book Global Warming initiated 5 years back.
- m) **Best Professor Award-2018** on Teachers day; Sep 5, 2018; by AKTU, Lucknow
- n) **Adarsha Seva-Ratna 2020** for Innovation by Adarsha Sanskarshala Samiti, Mathura on 4th Oct 2020 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 an 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..

Dr. Singh has been working on *Carbon Foot Print, Environmental issues* and has published more than **132-papers** in leading **International/National Journals** and Conferences, Symposium and Seminars.

He has also published **16-Books** and **21-Book Chapters**; few are listed

- a) **Development and Analysis of a Novel Air Engine**; ISBN: 978-3-8443-8171-9; Lap LAMBERT Academic Publishing, UK.
- b) A Hand Book on Friction Stir Welding; ISBN: 978-3-659-10762-7, Lambert Academic Publishing, GmbH & Co. KG, Germany, UK.
- c) **Global Warming - Impacts and Future Perspective" -Book edited by: Prof. Dr. Bharat Raj Singh**; ISBN:979-953-307-820-4, DOI: [10.5772/2599](https://doi.org/10.5772/2599) Publisher: InTech; 352 pages, published 19 September 2012, Price: 100 € (Euro)=6,700.00 INR, InTech Open Access Publisher, Rijeka, Croatia and 2-Full Chapters.
- d) **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](https://doi.org/10.5772/3459) Publisher: InTech; 508 pages, published 16 January 2013, Price: 100 € (Euro)=6,700.00 INR, InTech Open Access Publisher, Rijeka, Croatia, and 1-Full Chapter.
- e) **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 .**
Many more.....

Patent:

Rotary & Vane Type Air Engine -[Patent office, Govt. of India](#)- Registered on 08-10-2010, vide No: 2412/DEL/2010; Notified on 13-04-2012 vide: Issue No. 15/2012 Friday Date: 13th April' 2012 -[Page 5783](#) and [Certificate No. 342731 dated 28 July 2020](#) issued after 10-years examination of its Novel Invention.

Dr. Singh's **area of Specialization** is *Unconventional Manufacturing Processes, Industrial Engineering, Thermodynamics and Automobiles* and Research field is in *Sustainable Energy Resources, Environment and Development of Zero Pollution Air Engines*.

Dr. Singh is a:

- a) **Member of Editorial / Advisory Boards** of about **39-** leading International Journals,
- b) **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 about 135- papers
- c) **Member of Technical Expert**, Council of Science & Technology, Govt. of UP-for 3-Years [vide OM:CST/D-2330 dated: Dec. 04, 2013](#) and
- d) Member of Institution of Engineers (India) in 1978, Chartered Engineer (India) in 1985, Fellow (FIE) in 1985, Member of International Association of Engineers; IAENG-105641 (M) in 2010 and Life Member-The Indian Society for Technical Education (ISTE), India-LM94486,in 2014.

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