

CURRICULUM VITAE



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Bharat Raj Singh

[AIM: To serve every human being by sharing en-riched experiences especially with students who are future of Nation and Globe!!!]

1.0 AWARDS: -

- **Year, 1965**- awarded by **Hon'ble Governor** of Uttar-Pradesh **Sri Vishwa Nath Das** for preparation of working models of Scientific-Instruments.
- **Year, 1980**- awarded as best officer of U.P.R.N.N. on the eve of its 5th anniversary on 6th august, 1980.
- **Year, 1994**- awarded "Excellence Award" (Gold-Medal) by ICME, Bombay and conferred "**Samaj Sri**" for earthquake relief work in Uttarkashi, Tihari and Chamauli in the year, 1991-92.

2.0 PRESENT JOB:

- **ORGANISATION:** **SMS Institute of Technology, Lucknow-227125, UP.**
- **DESIGNATION :** **Professor**
SALARY : Rs.61, 358/- in the grade of (Rs.16, 400 - 450 - 20,900-500- 22,400) including basic [(19100+50% of 19100) = Rs.28, 650]+ [55% DA +15% HRA+Rs.5000 Special Allow. +780 EPF + Rs.5000 Transport & Telephone allowances].

POSITIONS / NATURE OF JOB:

ASSOCIATE DIRECTOR

HEAD OF DEPARTMENT - MECHANICAL ENGG.

SUBJECTS TAUGHT:

- Industrial Engineering- 100 % Results - 4 Semesters
- Product Developments & Design- 100 % Results – 1 Semester
- Un-conventional Machining Processes- 100% Results – 4 Semesters

PROJECTS SUPERVISED:

- Industrial Project-Manufacture of Agriculture appliances
- Use of Compressed Air as an alternative to Fossil Fuel
- LPG driven Two Stroke Engine / Motor Cycle
- Gearless 90 degree rotational movement of a shaft
- Running Model of Solar Photo Voltaic Car

➤ **Paper Published in *International / National Journals:**

1. **Singh B.R. & Singh Onkar**, Development of a vaned type novel Air Turbine, [International Journal of Mechanical Engineering Science](#), London, UK (The manuscript was received on 21 December 2007 and was accepted on 3 June 2008), Proceedings of the IMechE PART C , U.K., ISSN 0954-4062, [Vol. 222 No C12 December 2008, pp. 2419-2426.](#)
2. **Singh B.R. & Singh Onkar**, Numerical Analysis of Pressure Admission Angle to Vane Angle Ratios on Performance of a Vaned Type Novel Air Turbine, [International Journal of Natural Sciences and Engineering](#), Turkey, IJNSE-ISSN-2073-0578, [Vol. 1, Number 1\(4\), Winter 2009, pp. 20-27.](#)
3. **Singh B.R. & Singh Onkar**, Theoretical Investigations on Different Casing and Rotor Diameters Ratio to Optimize Shaft Output of a Vaned Type Air Turbine, [International Journal of Natural Sciences and Engineering](#), Turkey, IJNSE-ISSN-2073, [Vol. 1, Number 1\(5\), Winter 2009, 0578, pp. 28-35.](#)
4. **Singh B.R. & Singh Onkar**, Parametric Evaluations of Injection Angles and Vane Angles on Performance of a Vaned Type Air Turbine, [International Journal of Mathematical, Physical, and Engineering Sciences](#), Turkey, IJNSE-ISSN-2070-3880, [Vol. 3, Number 4\(38\), Spring 2009, pp. 226-233.](#)
5. **Singh B.R. & Singh Onkar**, Effect of Rotor to Casing Ratios with Different Rotor Vanes on Performance of Shaft Output of a Vane Type Novel Air Turbine, [International Journal of Natural Sciences and Engineering](#), World Academy of Science, Engineering and Technology, Turkey-IJNSE-ISSN-2073-0578,[Vol.1, Number 3\(21\), Summer 2009, pp. 133-138.](#)
6. **Singh B.R. & Singh Onkar**, Optimization of Power Output of a Vaned Type Novel Air Turbine With Respect to Different Injection Angles, [Internatinal Journal of Mechanical Engineering](#), Darya Ganj, New Delhi-110002(India), IJME-ISSN:0974-5823,(Received October 24, 2009 and accepted December 10, 2009), [Vol.2, Number 2, July-Dec 2009, pp. 205-211.](#)
7. **Singh B.R. & Singh Onkar**, Effect of Different Vane Angle on Rotor - Casing Diameter Ratios to Optimize the Shaft Output of a Vaned Type Novel Air Turbine, [International Journal of Engineering Science and Technology](#), Chennai, India-IJSET-ISSN-0975-5462, [Vol.2, Number3 \(2\), 2010, pp. 114-121.](#)
8. **Singh B.R. & Singh Onkar**, Study of Effect of Injection Angle to Rotor-Casing Diameter Ratios on Performance of a Vaned Type Novel Air Turbine, [International Journal of Engineering Science and Technology](#), Chennai, India-IJSET-ISSN-0975-5462, [Vol.2, Number 4\(10\), 2010, pp. 409-416.](#)
9. **Singh B.R. & Singh Onkar**, Critical Effect of Rotor Vanes with Different Injection Angles on Performance of a Vaned Type Novel Air Turbine, [International Journal of Engineering and Technology, Chennai, India](#), IJET-ISSN: 0975-4024, [Vol. 2 Number 2\(28\),2010, pp. 118-123.](#)
10. **Singh B.R. & Singh Onkar**, Study of Influence of Vane Angle on Shaft Output of a Multi Vane Air Turbine, [International Journal of Renewable and Sustainable Energy](#), AIP, New York, USA.(The manuscript received on October 24, 2009, accepted April 09, 2010, and Published on May 6, 2010), [Vol.2 Number 3, pp. 033101-16.](#)
11. **Singh B.R. & Singh Onkar**, Analytical Investigations on Different Air Injection Angles to Optimize Power Output of a Vaned Type Air Turbine, [International Journal of Power and Energy](#), Westminster, London- SW1H 9JJ, UK, Proc. of IMechE, Part A: JPE-837, ISSN 0957-6509 (The manuscript was received 11th June 2009 and accepted for publication 7th October' 2009), [Vol. 224,Number 3, 2010, pp. 305-312.](#)
12. **Singh B.R. & Singh Onkar**, Study of Effect of Rotor Vanes to Rotor-Casing Dimensions on Performance of a Zero Pollution Vane Type Novel Air Turbine, [International Journal of the Physical Sciences](#), 5170-00200, Nairobi-73023 Victoria Island, Lagos, (The manuscript IJPS-10-038 was received on February 01, 2010 and accepted on April 28, 2010)- [Vol.5\(5\), 2010, pp. 547-556.](#)

➤ **Paper in Published in National Journals:**

1. Singh B.R. & Singh Onkar -“**Parametric Evaluation of Vane Angle on Performance of Novel Air Turbine**”- National Journal of Science, Engineering and Management, SITM, Barabanki, India, ISSN: 0974-4258, Vol.2, December 2008, pp. 7-18.
2. Singh B. R. & Singh Onkar -“**Recent Trends towards Manufacturing of Smart Automobile Vehicles**”- National Journal of Science, Engineering and Management, SITM, Barabanki, India, ISSN: 0974-4258, Vol.1, December 2007, pp. 23-27

➤ **PAPER PRESENTED / PUBLISHED IN NATIONAL / INTERNATIONAL CONFERENCES:**

1. Singh B.R., & Singh, Onkar - *Study of Compressed Air as an alternative to fossil fuel for Automobile engines* -International Conference on Challenges & Strategies for Sustainable Energy and Environment- held on 10-11th June'2006 at UPTU, Lucknow-(Proceedings PP 179-191).
2. Singh B.R., & Singh, Onkar - *Necessity & Potential for BIODIESEL use in India*-International Conference on BIO-FUELS VISION 2015- held on 13-15th Oct'2006 at College of Engg., Bikaner- (Proceedings PP 71-89).
3. Singh B.R., & Singh, Onkar - *Recent Trends towards Manufacturing of Smart Automobile Vehicles*-National Seminar on Intelligent Technologies in Mechanical & Automotive Engineering - held on 5-6th Janury'2007 at ITM, Gurgaon-(Proceedings PP 43-51).
4. Singh B.R., & Singh, Onkar - *The Need of Modern Approach in Manufacturing Processes for Automobile Engines*-National Conference on Recent Trends in Manufacturing Technology - held on 24-25th January'2007 at HCST, AGRA-(Proceedings PP 54-58).
5. Singh B.R., Singh, D.P., & Singh, Onkar - *Recent Trend towards Use of Manufacturing Automation in the Automobile Industry*-National Conference on Advancement of Technologies-Global Scenario- held on 25-26th February'2007 at GLAITM, Mathura-(Proceedings PP 275-282).
6. Singh B.R., & Singh, Onkar - *Use of Non-Conventional Energy for Sustainability to Fossil Fuel*-National Conference on Recent Trend on Mechanical Engineering "RAME-2007"- held on 28-29th March'2007 at Baba Sahab Dr. Bhim Rao Ambedkar College of Agricultural Engg. & Technology, Etawah-(Proceedings PP 130-136).
7. Singh B.R., & Singh, Onkar - *Uses of Wind Power as a Non-Conventional / Renewable Energy for Sustainability*-National Conference on State of Art Technology in Mechanical Engineering "STEM-2007"- held on October 29-31, 2007 at College of Technology, G.B. Pant University, Pant Nagar, UP-(Proceedings PP 503-515).
8. Singh B.R., & Singh, Onkar - *Development of a Vaned Type Novel Air Turbine* -12th International Symposium on Transport Phenomena and Dynamics of Rotating Machinery (ISROMAC-12)- held on February 17-22, 2008 at PACIFIC CENTER OF THERMAL-FLUIDS ENGINEERING, Sheraton Mohana Surfriider Hotel Honolulu, Hawaii - Paper No. ISROMAC-12-20046.
9. Singh B.R., & Singh, Onkar - *Optimal Uses of Wind Energy leading towards a Novel Resource for Future Sustainability*-ASME 2nd International Conference on Energy Sustainability (ES-2008)- held on August 10-14, 2008 at Jacksonville, Florida, USA- Paper No. ES -2008 - 54011.

10. Singh B.R. & Singh Onkar - "Energy Storage System to meet Challenges of 21st Century-an Overview" - All India Seminar on Energy Management in Perspective of Indian Scenario - held on October 17-19, 2008 at Institution of Engineer (India), State Centre, Engineer's Bhawan, Lucknow-Proceedings Chapter15, pp 157-167.

11. Singh B.R., & Singh, Onkar - A Study on Sustainable Energy Sources & its Conversion Systems towards Development of an Efficient Zero Pollution Novel Turbine to be Used as Prime-mover to the Light Vehicle -2008 ASME International Mechanical Engineering Congress & Exposition (IMECE-2008)- scheduled on October 31-November 6, 2008 at Boston, Massachusetts, USA- Paper No. IMECE -2008 -66803.

12. Singh B.R., & Singh, Onkar - A Study to Optimize the Output of Vaned Type Novel Air Turbine - 4th International Conference on Energy Research & Development (ICERD-4) - held on 17-19 November, 2008 at State of Kuwait, KUWAIT- Paper No. ICERD-4-1353.

13. Singh B.R. & Singh Onkar - "Numerical Investigations on Performance of Vaned Type Novel Air Turbine" National Conference on Advances in Mechanical Engineering, - held on Feb'28th to March'1st, 2009 at MIT, Moradabad, UP, India.

14 .Singh B.R. & Singh Onkar - "Analytical Study on a Vaned Type Novel Air Turbine at Different Conditions of Casing & Rotor Diameters" -2009 ASME 3rd International Conference on Energy Sustainability- to be held on July, 17-19,2009 at Westin St. Francis Hotel, San Francisco, California, USA.-Abstract-ES2009-90207.

15. Singh B.R. & Singh Onkar - "Applications of Compressed Air as an Alternative Energy to meet Challenges of 21st Century- Global Warming" - Engineering Congress on Alternative Energy Applications (EC2009-Kuwait)- to be held on November 2-6,2009 at Kuwait-Paper No. EC2009-1082.

16. Singh B.R. & Singh Onkar - "Compressed Air Energy Storage Power Plant and its Feasibility in India- An Overview"- National Conference on Advances in Management of Energy Efficiency and Clean Environment (AMEECE2010-Kanpur)- held on April 3-4,2010 at HBTI, Kanpur, India-Proceeding of National conference pp 55-61.

17. Singh B.R. & Singh Onkar - "Clean Energy Challenges of 21st Century-Can Compressed Air Storage System Meet The Energy Crisis and Check Global Warming?"- ASME 2010 International Mechanical Engineering Congress & Exposition(IMECE2010-38505)- to be held on November 12-18,2010 at Vancouver, British Columbia.

18. Singh B.R. & Singh Onkar - "Energy Storage System as a Future Alternative Fuel for Transport Sector to Address Global Warming Issues"- Clean Energy Technologies and Energy Efficiency for Sustainable Development (ENERSTATE 2010)- to be held on October 3-5,2010 at C/O Uttarakhand Technical University, Government Girls Polytechnic Post Office, Chandanwadi, Prem Nagar Sudhowala, Dehradun (Uttarakhand).

3.0 PROFESSIONAL QUALIFICATIONS:

- ❖ Pursuing for **Ph.D. (Mechanical Engineering)**- the topic is **Design & Analysis of Air Engine** .Thesis completed and under submission to UP Technical University, Lucknow in Dec'2009.
- ❖ **M.E. (Analysis and Design)** with **62%** from M.N.Regional Engg. College, Allahabad University in 1988.

- ❖ **B.E. (Mechanical)** with **65%** from SV Regional college of Engg. and Technology, Surat, South Gujarat University in 1972.

4.0 **ACADEMIC QUALIFICATIONS:**

- **Inter Mediate Science** with II division (59%) distinction in **Physics** from UP Board, Allahabad in 1965.
- **High School Science** with II division (58.7%) distinction in **Math** from UP Board, Allahabad in 1963.

5.0 **EXPERIENCES:**

(33- Years Industrial & 5- Years Academics)

Joining Date	Organisation	Designation	Grade	Nature of job
1 st July' 2009 to till Date	SMS Institute of Technology, Lucknow	Associate Director	16,400-450-20,900 -500-22,400. [Salary- Basic- 28,650+ 55% DA+ Other Allowances =Rs.61,358]	Administrative & Educational Excellence
21 st January' 2009 to 30 th June'2009	SITM, Barabanki	Deputy Director & HOD-ME	16,400-450-20,900 -500-22,400. [Salary- Basic- 28,650+ 35% DA+ All.=Rs.40,000]	Administrative & Departmental Control
DECEMBER' 2004 to Jan 21 st , 2009	SITM, Barabanki	Professor, HOD-ME & Dean	16,400-450-20,900-500-22,400 Salary- [Rs.35,258]	Administrative & Departmental Control
February'2004 to july'2004	UPRNN, Lucknow	Consultant	18,200-22,000	Monitoring and control at HQ.
November'2003 to jan'2004	UPRNN, Lucknow	Chief General Manager	5900-6300 (Rev.18,200-22,000)	Monitoring & control at HQ.
10 th Oct' 2003 to 30 th Oct'2003	UPRNN, Lucknow	Managing Director	5700-6150	Worked as Chief Executive of Organisation
25 th Feb'2003 to 9 th Oct'2003	UPRNN, Lucknow	Chief General Manager [commercial]	5700-6150	Liasoning and monitoring of project, Work procurement at Govt level
3 rd Sep'2002 to 24 Feb'2003	UPRNN, Lucknow	General Manager [Commercial]	5100-5900	Details as above
29 th Oct'1992 to 2 nd Oct'2002	UPRNN, Lucknow	Additional General Manager [Commercial]	4350-5700	-do-
30 th June'1990 to	UPRNN, Lucknow	Senior Project Manager.	4100-5300	-do-

29 th Oct.'1992				
21 st June' 1987 to 30 th June' 1990	Uptron India Ltd., Lucknow	Chief Manager [Project], General Manager [Proj.]	5700-6150	-do-
5 th Aug' 1985 to 20 th June'1987	UPRNN, Lucknow	Senior Project Manager.	1840-2400 (rev. 4100-5300)	-do-
1 st Aug' 1978 to 5 th Aug' 1985	UPRNN, Lucknow	Project Manager.	1400-1800	-do-
1 st Dec.' 1976 to 31 st July' 1978	UPRNN, Lucknow	Resident Engineer	800-1450	-do-
1 st Oct' 1973 to 30 th Nov.' 1976	HSCL, Naini, Allahabad	Asst. Divisional Engineer	650-1200	-do-
13 th July' 1972 to 30 th Sep'1973	HSCL, Naini, Allahabad	Technical Assistant	325-550	-do-

6.0 MAJOR PROJECTS HANDLED, ADMINISTRATIVE ROLE AND ACADEMIC EXPERIENCES:-

6.1 HSCL, NAINI: [1972-1976]

WAS ASSOCIATED FOR CONSTRUCTION & INSPECTION INCHARGE FOR:

- Bharat Pumps and Compressor Ltd., Naini factory
- Indian Telephone Factory Ltd, Naini
- Triveni Structural Ltd. , Naini- fabrication tower structure
- ****Launching girder fabrication and installation at Betwa river , Distt.-Hamirpur**

6.2 UPRNN: [1976-1987]

WAS ASSOCIATED FOR PROJECT CONSTRUCTION FOR:

- ****UP STATE SUGAR CORPORATION –Construction of factories-13 No's - earliest completion time in 13 - month's. State record broken and Nigam received State Award**
- Auto Tractors Ltd., Pratapgarh- factory construction completed in 18-months
- UP State & Co-operative textiles mills construction-14 nos
- BHEL Jagdishpur Insulator Plant- construction got done in-18 months
- BHEL, Varanasi Heavy Repair Plant- construction got done in-11 months
- Pontoon Fabrication-110 nos got done in -3 months
- BPCL, LPG Plant construction got done in -8 months

6.3 UPTRON: [1987-1990]

WAS ASSOCIATED FOR PROJECT CONSTRUCTION FOR:

- UPTRON Colour Picture Tube Factory at Sahibabad-First Phase got completed in 6-months
- UPTRON TV Factory, Chandowak, Jaunpur- Completed in 10-Months
- UPTRON Digital Factory, at Gomati Barrage, Lucknow–Got completed in 12 Months.
- UPTRON Control System Factory, Chinhat, Lucknow- 18 Months

6.4 UPRNN: [1990-2004]

WAS ASSOCIATED FOR ADMINISTRATIVE JOBS:

- Procurement, Monitoring of Project Work
- ****Earth Quake Relief Work at Tihari, Uttar Kashi and Chamauli**
- Attending meetings at Govt. & Client level
- Holding meeting at corporate level
- Dealing with administrative & establishment issues
- Developing modern techniques for computerized monitoring systems and its follow UP.
- Preparation and launching of web site: <http://www.brsinghindia.com> on dynamic html
- Consultant to UPRNN for all technical matter and pursuance of sanctions & release of funds from Govt. / Clients.

6.5 SITM: [2004-2009]

- Deputy Director, Professor and Head in Mechanical Department since 21st January'2009 to 30th June'2009.
- Dean – Administration, Professor and Head in Mechanical department- POSITION held up to 21st Jan' 2009.
- Library Convener- position held up to September' 2006
- Coordinator-training & placement- position held up to September' 2006.

6.6 KGDU: [Aug'2006 - June'07]

- **Technical Advisor, King George Dental University, Lucknow**

6.7 SMSIT (JULY'2009 - TILL DATE)

- **Associate Director, SMS Group of Institutions and Head of Mechanical Department since 1st July'2009 to till date.**

7.0 NATURE OF JOBS HANDLED PRIOR TO ACADEMICS:

EXECUTIVE & MANAGERIAL JOBS: Procurement of materials, fabrication of structure, erection & sheeting works, getting inspection done and coordination activities with officers.

ADMINISTRATIVE JOBS: Also headed the commercial, finance, establishment, design and other administrative responsibilities.

HIGHEST POSITION: Joined hscl, as “**Technical Assistant**” in **1972** and with various responsibilities at above stated organisations, attained the highest post of state “**Managing Director**” in **2003-2004**.

8.0 PERSONAL DATA:

NAME:	BHARAT RAJ SINGH
FATHER'S NAME:	LATE SRI RAM SAGAR SINGH
DATE OF BIRTH:	05.01.1946

*** 12- Research papers published and 3- under Peer Review in International Journals, and 2- in National Journal**

**** These works were recognised by State Govt. and Central Govt.**