

Resume

Name K.P.Singh

Designation Scientist (Farm Machinery and power Engineering)

Full mailing address

a) **Present Address** Vivekananda Institute of Hill Agriculture
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Marital status MARRIED

Nationality INDIAN

Passport Number A 5624629

Father's Name Shri Ramayan Singh

Date of birth 07.01.1972

Academic record:

Name of the university/ board/ Institution	Examination passed	Year of passing	Div	Percentage of marks obtained/ OGPA	Subjects taken
U.P.Board Allahabad	High School	1986	1 st	78.0	Mathematics, Science, Biology, Social science, English, Hindi
U.P.Board Allahabad	Intermediate	1988	1 st	75.2	Mathematics, Physics, Chemistry, English, Hindi
G.B.Pant Univ. of Agric. & Technology, Pantnagar	B.Tech. (Agricultural Engineering)	1996	1 st	3.6/5.000	Agricultural Engineering

G.B.Pant Univ. Agric. And Technology Pantnagar	M.Tech. ¹ (Farm Machinery and Power Engineering)	1999	1 st	4.1/5.000	Farm Machinery & Power Engineering
Indian Institute of Technology, Kharagpur	Ph.D. (Agric. and Food Engineering)	2007	Continued...		

M.Tech thesis title: “Comparative Performance of Powered Harrow Plough with Rotavator and Disc Harrow Clod Crusher Combination”.

Details of professional /practical training and research experience, if any specify the period.

a) Training

Sl. No	Subject	Year	Duration	Organization
1	Research Project Management	2002	4 months (3 rd Jan- 2 nd May 2002)	National Academy of Agricultural Research Management (NAARM), Hyderabad, India
2	Production Technology of Agricultural Equipments	2002	3 weeks (4 th Sept- 24 th Sept 2002)	Central Institute of Agricultural Engineering, Bhopal, India
3	Conservation Agriculture and bed planting	2006	4 weeks (20 May to 21 June 2006)	CIMMYT Albatan, Mexico

b) Number of papers published (list enclosed)

I) Papers (Presented, Published and accepted)	25
II) Book chapters	03
III) Bulletins	03
IV) Leaflets	04
V) Thesis/dissertation	02

c) Patent filed:

1. The patent application of this machine has been filed by ICAR (F. No. 1(35)/04-IPR, Patent Application No. 1199/DEL/05 dated 11.05.05)
2. A patent number 2404/DEL/2007 has been filed in 2007 on machine “Insect trapping device “.

d) **National awards:**

1. NRDC award of INR 1 Lakh, for design and development of “Millet thresher-cum-pearler”.



2. Hari Om Saran Ashram Trust Award for Natural Resource Management 16th July 2007



3. Felicitation by ISAE at OUAT, Bhubaneswar in 3rd January 2007

Membership of professional societies: 1. Indian Society of Agricultural Engineers-Life Member

2. Association of Food Scientists and Technologists (India) – New full membership

Employment record

Name of organization	Name of employer	Date of joining	Date of leaving	Post held	Scale of pay
Vivekananda Institute of Hill Agriculture, Almora	ICAR	Aug. 2001	Till date	Scientist	Rs 8000-13500

Projects handled/handling:

1. All India Coordinated Research Project on Post Harvest Technology.
2. Design, development and evaluation of Modular Power tiller drawn Zero Till Seed-cum ferti drill for hill regions of India
3. Design, development and performance evaluation of manual-cum-bullock drawn seed-cum-ferti drill for hills of Uttaranchal.
4. Design, development and performance evaluation of Millet thresher-cum-pearler.
5. Demonstration of zero till machines at Farmers fields.

PUBLICATIONS

International Research Papers:

1. **Singh, K.P.**, I. L. Pardeshi, M. Kumar, K. Srinivas and A.K.Srivastva 2008. Optimization of machine parameters of pedal operated VL paddy thresher for better threshing capacity and efficiency . *Biosystems Engineering* 100(4), 591-600.
2. **Singh, K P**, Ved Prakash, K Srinivas And A K Srivastva 2008. Effect of tillage management on energy use efficiency and economics of soybean (*Glycine max*) based rainfed cropping systems in NWHR. *Soil and Tillage Research* 100, 78-82.
3. Kumar, M., N Kumar, **K P Singh**, P Kumar, A K Srivastva 2009. Integrating Water Harvesting and Gravity-fed Micro-irrigation System for Efficient Water Management in Terraced Land for Growing Vegetables. *Biosystems Engineering* 102(1), 106-113.
4. R. Bhattacharyya, S. Kundu, S.C. Pandey, **K.P. Singh**, H.S. Gupta 2008. Tillage and irrigation effects on crop yields and soil properties under the rice–wheat system in the Indian Himalayas. *Agriculture Water Management* 95(9), 993-1002.
5. **Singh, K. P.**, A. K. Srivastva, K. Srinivas, S. R. K. Singh and H.S. Gupta 2007. Entrepreneurship development in agriculture through agro processing centre: a case study of Almora district in NW Himalaya. *Agricultural Engineering International the CIGR Ejournal*. Invited overview, 2(9)
6. Supradip Saha, Arun Gupta, S.R.K.Singh, Nidhi Bharti, **K.P.Singh**, V. Mahajan, H.S.Gupta (2008) Compositional and varietal influence on biscuit dough and quality of finger millet biscuit. *LWT-Food Science and Technol*, DOI: 10.1016/j.lwt.2010.08.009.

7. **Singh, K.P.**, S. Chandra, R. Bhattacharyya, A.K. Srivastava and H.S. Gupta 2008. Design, development and evaluation of manual-cum-bullock operated zero till seed-cum- fertilizer drill for hills. *AMA, Japan*, 39(3), 50-56.
8. Singh KP, Mishra HN and Saha S (2010). Optimization of machine parameters of finger millet thresher-cum-pearler. *Agricultural Mechanization in Asia, Africa and Latin America* 41 (1): 60-67
9. **Singh, K.P.**, S. Saha and H. N. Mishra 2008. Sorption isotherm of barnyard millet grain and kernel. *Food and Bioprocess Technology*. DOI 10.1007/s11947-009-0195-x
10. S. Mangaraj and **K. P. Singh** (2009). Optimization of machine parameters for milling of pigeon pea using RSM. *Food and Bioprocess Technology*. DOI 10.1007/s11947-009-0215-x
11. Singh KP, Mishra HN and Saha S (2010). Optimization of barnyard millet dehulling process using RSM. *Agricultural Mechanization in Asia, Africa and Latin America* 41 (2): 15-20
12. **Singh, K.P.**, H. N. Mishra and S. Saha 2010. Moisture-dependent properties of barnyard millet grain and kernel . *Journal of Food Engineering*, 96, 598–606.
13. **Singh, K.P.**, H. N. Mishra and S. Saha 2010. Design, development and optimization of machine and process variables of millet dehuller . *Biosystem ENgineering*, (Under Review).

National Research Papers:

1. **Singh, K.P.**, M. Kumar, Ajay Kumar and A.K.Srivastva 2008. Effect of different wire loop spacing, tip height and threshing drum speed on threshing performances of pedal operated VL paddy thresher. *Journal of Agricultural Engineering* 45(1), 12-16.
2. Panday , S.C. , R.D. Singh, S. Saha, **K.P. Singh**, Ved Prakash, A. Kumar, M. Kumar, And A.K. Srivastava 2008. Effect of tillage and irrigation on yield, profitability, water productivity and soil health in rice (*Oryza sativa* L.) –wheat (*Triticum aestivum*) cropping system in North West Himalayas. *Journal of Agricultural Sciences* 78(12), 1018-1022.
3. **Singh, K.P.**, Singh, Bachchan and Singh, T.P. 2002. Performance evaluation of powered harrow plough in comparison to other tillage system in silty clay loam soil, *Journal of Agricultural Engineering* 39(1), 40-48.
4. **Singh, K.P.** and Ajay Kumar (2008). Millet thresher-reducing drudgery of hill farmers, *Indian Farming*, April 2008, Special issue on Global Agro-Industries Forum 2008, 18-21
5. K. Srinivas, **Singh, K. P.**, Ajay Kumar, S. R. K. Singh and K. K. S. Bisht 2009. Agro-processing centre in Uttarakhand hills: a case study of enterprise development. *Journal of Agricultural Development and Policy* 19(1), 44-53.

6. Kumar N., Mina B. L., **Singh K. P.** , Chandra S., Kumar M., and Srivastva A. K. 2010. Weed control methods for yield and profit maximization in wheat in Indian Himalayas. *Indian Journal of Agronomy* 55(2): 1-4.
7. **Singh, K. P.** and A. K. Srivastva (2010). Development and evaluation of finger millet (*Eleusine coracana*) thresher-cum-pearler. *Journal of Agriculture Sciences*. (Under review)

Books

V. Mahajan, H. S. Gupta, G. Singh, L. Kant, S. R. K. Singh, N. Kumar, K. S. Hooda, M. Mohan, **K. P. Singh** and Ved Prakash (2008). *Uttar Pashchimi Parvatiya Kshetro Me Pramukh Dalahani Fashlo ke Kheti ke liye Unnat Taknike*, P 1-99

Technical bulletins

Gupta, A., V. Mahajan, **K. P. Singh** and J.C. Bhatt 2006. Production trechnology for minor millets for North-Estern region. Technical bulletin No 24 (1/ 2006).

Singh, K. P., Ajay Kumar, S. R. K. Singh and K. Srinivas 2007. *Parvatiya Krishi Hetu Paramparik ewan Unnatsheel Yantras*. Technical bulletin No 26(1/ 2007).

Singh, G., V. Mahajan, H. S. Gupta, K. S. Hooda, Supradip Saha, J. Stainley, **K. P. Singh** and K. B. Saxena. Uttrakhand ke Parvatiya kshetro mein arhar ke utpadan taknikey ewan aachhadikaran. Technical Bulletin No 35 (5/20069).

Technical leaflet

Singh, K.P., S. Kundu and H.S. Gupta 2002. Vivek Thresher -I for Mandua/Madira. ,

Singh, K.P., S. Kundu and H.S. Gupta 2003. *Mandua aur madira hetu Vivek Thresher -I* (In Hindi), Prasar Praptra 15, 2003.

Singh, K. P., A. K.Srivastva, S. Kundu and H. S.Gupta 2007. *Parvatiya kshetro me buaie hetu V L seed cum fertilizer dril*. VPKAS Prasar prapatre (30/ 2007)

Singh, K. P., M. Kumar, A. K.Srivastva, S. Chandra, S. Kundu and H. S.Gupta 2007. *Parvatiya kshetro me dhan ke madaie hetu V L paddy thresher*. VPKAS Prasar prapatre (31/2007)

Book Chapters:

Singh, K.P. and A.K.Srivastva 2006. Farm mechanization and post harvest management in hill agriculture. Sustainable production from agricultural watersheds in North west Himalaya.

Chandra, Subhas, **K.P.Singh** and R. Bhattacharya 2006. Farm operation management in hill farming. Sustainable production from agricultural watersheds in North west Himalaya.

Singh, K.P. 2006. *Sanrachhit watawaran me sabjiyo ka turaie uprant sanrachhan*. Palihouse takniki prabandhan dwara bemausami sabjiyo ka utpadan, P 49-52

Seminars, conferences and workshops (relevant to the project which the Scientists have participated).

- Singh, K. P.,** M. Kumar, Supradip Saha and H. N. Mishra 2008. Optimization of machine parameters of finger millet thresher-cum-pearler for its better performance. Proceeding of National work shop on “Appropriate technologies for hills” ATH 2008, on 16-18 Oct. 2008 at GBPUA & T Pantnagar. P-17.
- Kumar, M., **K P Singh,** A K Srivastva 2008. Integrating Water Harvesting and Gravity-fed Micro-irrigation System for Efficient Water Management in Terraced Land. Proceeding of National work shop on “Appropriate technologies for hills” ATH 2008, on 16-18 Oct. 2008 at GBPUA & T Pantnagar. P-37.
- Singh, K. P.,** Supradip Saha and H. N. Mishra 2008. Optimization of barnyard millet dehulling process using RSM. Proceeding of National work shop on “Appropriate technologies for hills” ATH 2008, on 16-18 Oct. 2008 at GBPUA & T Pantnagar. P-187
- Singh, K.P.** and Kundu, S. 2003. Development of higher capacity powered thresher cum pearler for Ragi and Kodo in national seminar on “Processing and Utilization of Millets for Nutrition Security”, on October 7-8, 2003 at CCS Haryana Agricultural university , Hisar (Haryana)
- Singh, K.P.,** S. Kundu and H. S. Gupta 2003. Design and development of an electromechanical thresher for finger millet and barnyard millet. 6th Agricultural Science Congress on February 13-15, 2003, IISS, Bhopal. p 299.
- Singh, K.P.,** Bhattacharya, R., Chandra, S., Srivastva, A.K. and Gupta, H.S., Development of seed cum fertilizer drill for hill region. National workshop on “Design Methodology of Agricultural Machinery” on July 16-17, 2004 at CIAE, Bhopal, (M.P.)
- Singh, K.P.,** A.K Srivastva. and H.S. Gupta 2004. Modification in design aspects of modular power tiller drawn zero till seed-cum-fertilizer-drill developed for hills. National conference on “Conservation Agriculture, Conserving Resource Enhancing Productivity” on September 22-23, 2004 at NASC complex, Dev parkas Shastri marg, Pusa, New Delhi.
- Panigrahi, S., **K.P.Singh** and H.N.Mishra 2008. Functional foods from minor milletoral presentation, Cereal based foods: nutrition, health and consumer expectationsat the 13th ICC Cereal & Bread Congress - Cerworld 21st “Cereals worldwide in the 21st century: present and future”Madrid, Spain 15th-18th June 2008
- Singh, K. P.,** H. N. Mishra and S. Saha 2007. Effect of different machine design parameters on pearling efficiency and capacity of finger millet (Eleusine coracana) thresher-cum-pearler. Souvenir, Icfost 2007. on 31 Dec. 2007 to 02 Jan. 2008 at IIT, Kharagpur. P-34

Institutional building:

1. Development of institute farm machine shop
2. Development of Institute post harvest technology lab under project AICRP on PHT
3. Development of PHT knowledge centre.

Place: ALMORA, INDIA

Date: 30.11.2009

K.P.Singh