Curriculum Vitae

Ram Kumar Shrestha, PhD
Campus Chief /Assistant Professor (Soil Science)
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Personal Details

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Academic Qualification

1. **PhD in Soil Science (**Equivalent to **PhD in Agriculture (Soil Science)** by Curriculum Development Centre, Tribhuvan University, Nepal) from Southwest University, Chongqing, China in 2024.
2. **Master of Science in Agriculture Sciences and Resource Management in the Tropics and Subtropics (**Equivalent to **M.Sc. Agriculture (Soil Science)** by Curriculum Development Centre, Tribhuvan University, Nepal) from University of Bonn, Bonn Germany in 2010.
3. Masters of Arts (Rural Development) from Tribhuvan University, Central Department of Rural Development, 2005
4. B.Sc. (Agriculture) from Tribhuvan University, Rampur Campus, 2001.
5. **I. Sc. (Agriculture)** from Tribhuvan University, IAAS, Lamjung Campus, Lamjung, Nepal in 1997.
6. **SLC** from Shree Dullav Higher Secondary School, Ghyampesal, Gorkha, Nepal in 1994

Awards

1. **German Academic Exchange Service (DAAD Scholarship)** to pursue M.Sc. from University of Bonn, Germany from 2008 to 2010.
2. **Chinese Scholarship Council (CSC) Scholarship)** to pursue Doctoral degree from Southwest University, Chongqing China from 2018 to 2024.
3. **Mini-Research Grant** from University Grant Commission, Nepal to conduct research on Assessment of the soil fertility status of lowland rice field in Paundi Watershed.

Work Experiences

1. **Campus Chief** for **Lamjung Campus**, Institute of Agriculture and Animal Science, Lamjung Campus from **2081/10/02 B.S. to date**.
2. **Teaching Assistant (Soil Science)** for **Lamjung Campus**, Institute of Agriculture and Animal Science, Lamjung Campus from **2069/04/02 to 2069/09/29 B.S.**.
3. **Assistant** Professor (Soil Science) for Lamjung Campus, Institute of Agriculture and Animal Science, Lamjung Campus from **2069/10/01 B.S. to date**.
4. **District Program Coordinator** from **Jun 2011 to Jul 2012, District Program Officer** from **Jan 2011 to May 2011** (Achham District) and **Junior Program Officer** (Consultant) (Jajarkot) from

May 2010 to Dec 2010 for **Sustainable Soil Management Program (SSMP)/Helvetas Nepal.**

5. **Project Coordinator** for **INSAF Nepal, Kathmandu** from **Jun 2007 to Jan 2008.**
6. **Project Coordinator** from **Apr 2006 to Oct 2006** for **Madan Youth Club, Kavre**
7. **Technical Officer** from **Apr 2003 to Aug 2004** for **Green Energy Mission/Nepal (GEM/N),** Anaam Nagar, Kathmandu
8. **Trainer** from **Jul 2002 to Mar 2003** For **School of Gardening, Landscaping and Lawn Management**, Lazimpat, Kathmandu.

Editorial Board

1. **प्रधान सम्पादक**, लमजुङ क्याम्पस संवाद २०७९. अनुसन्धान विकास तालिम तथा प्रसार केन्द्र, लमजुङ क्याम्पस, कृषि र पशु विज्ञान अध्ययन संस्थान, त्रिभुवन विश्वविद्यालय ।
2. **संयोजक**, सम्पादन मण्डल, लमजुङ क्याम्पस संवाद २०७८. अनुसन्धान विकास तालिम तथा प्रसार केन्द्र, लमजुङ क्याम्पस, कृषि र पशु विज्ञान अध्ययन संस्थान, त्रिभुवन विश्वविद्यालय ।
3. **Editor-in-Chief**- Abstract Book: 10th Symposium on Undergraduate Practicum Assessment, 12th October, 2023. Research Development Training and Extension Center, Lamjung Campus, Institute of Agriculture and Animal Science, Tribhuvan University
4. **Editor-in-Chief**- Abstract Book: 11th Symposium on Agriculture Education, Research and Extension, 29th September, 2024. Research Development Training and Extension Center, Lamjung Campus, Institute of Agriculture and Animal Science, Tribhuvan University.

Text Books

1. **Shrestha, R.K.,** Khatri, K.B., and Adhikari, K.R. 2024. Fundamentals of Soil Science [Based on the Course Fundamentals of Soil Science, B.Sc. Ag. First Semester, Institute of Agriculture and Animal Science, Trhibhuvan University, Fundamentals of Soil Science and Geology, B.Sc. Ag. First Semester, Agriculture and Forestry University, Fundamentals of Soil Science, B.Sc. Ag. First Semester, Far Western University, Introductory Soil Science, B.Sc. (Honours) Agriculture Programme, First Semester, Purbanchal University. Heritage Publishers & Distributors Pvt. Ltd. Bhotahity, Kathmandu, Nepal. ISBN: 978-9997-788-50-2.
2. Chalise, D.R., **Shrestha, R. K.** (2014) An Introduction to Soil Physics: Soil Physical Properties, Genesis and Classification. Lambert Academic Publishing, Germany. February
3. **Shrestha, R.K.,** M., Saurav, & Sharma, B. (2023). Soil Fertility Management [Based on the syllabus of Soil Fertility Management (AG2201PS) of Curriculum for Diploma in Agriculture (Plant Science) of Council for Training Education and Vocational Training (CTEVT), Nepal. Heritage Publishers & Distributors Pvt. Ltd. Bhotahity, Kathmandu, Nepal. **ISBN**: 9789937788496.
4. **Shrestha, R.K.**, M., Saurav, & Sharma, B. (2023). Fundamentals of Soil Science [Based on the syllabus of Fundamentals of Soil Science (AG2106PS) of Curriculum for Diploma in Agriculture (Plant Science) of Council for Training Education and Vocational Training (CTEVT), Nepal. Heritage Publishers & Distributors Pvt. Ltd. Bhotahity, Kathmandu, Nepal. **ISBN**: 9789937788687.

Research Reports

1. **Shrestha, R.K**. (2014) Assessment of the soil fertility status of lowland rice field in Paundi watershed. A mini research report submitted to University Grants Commission, Sanothimi, Bhaktapur, Nepal.
2. Nandwani, D., Dahal, K.C, **Shrestha, R.K**, and Gaire, A.. 2025. Exploration of Climate Smart Organic Farming in Nepal: Impact of Cover Crops on Plant Yield, Insect Pests, Weeds and Soil

Health in Organic Management System. A Research Report Submitted to United State Department of Agriculture Foreign Agriculture Service on Jan, 23, 2025 [A Research project jointly executed by Institute of Agriculture and Animal Science, Kirtipur, Kathmandu, Tribhuvan University, Nepal, Contact no. +977-14330500)/ Tennessee State University, 106B Lawson Hall, 3202 John A. Merritt Blvd, Nashville, TN 37209, the United States, contact no. +1-615-963-1897.

3. Adhikari, K.R., Dhital, B., Pant, H.K. Adhikari, B.B., Bhandari, T., & **Shrestha, R.K**. (2017). Accelerating the Adoption of Stress Tolerant Rice Varieties by Smallholder Farmers in Nepal and Cambodia (USAID-ASTV PROJECT 2017-2017). A Research Report Submitted to International Rice Research Institute in March 2017 [A Research project jointly implemented by International Rice Research Institute (IRRI), Phillippines and Institute of Agriculture and Animal Science (IAAS), Rampur, Chitwan during 2015-2017, +1 4330600.
4. Adhikari, K.R., Dhital, B., Pant, H.K. Adhikari, B.B., Bhandari, T., & **Shrestha, R.K**. (2018). EC IFAD Funded Project on Drought Tolerant Rice (2014-2017). A Research Repor submitted to International Rice Research Institute in March 2018 [A Research project jointly implemented by International Rice Research Institute (IRRI), Phillippines and Institute of Agriculture and Animal Science (IAAS), Rampur, Chitwan during 2014-2017.

Research Reference Books

1. **Shrestha, R.K**. (2012). Iron Toxicity in Lowland Rice Effect of Transpiration on translocation and mechanisms of toxicity tolerance. Lambert Academic Publishing, Germany. ISBN 978-3-65926587-7
2. **Shrestha, R.K.** (2013). Impact of Integrated Plant Nutrient Management System- Farmer's Field School in Nasikasthan Sanga Village Development in Kavre District Nepal. Lambert Academic Publishing, Germany. ISBN 978-3-659-33744-4.

M.Sc. Thesis Supervision (Chairperson of Advisory Committee)

1. Jharana Panthi. (2018). Response of cauliflower (Brassica oleraceae var. Botrytis L.) to different levels of boron and zinc fertilizers under maize and rice based cropping systems. Institute of Agriculture and Animal Science, Tribhuvan University, Nepal.
2. Sharan Panthi. (2018). Response of cauliflower (*Brassica oleraceae* var. Botrytis L.) to different levels of boron and zinc fertilizers under maize and rice based cropping systems. Institute of Agriculture and Animal Science, Tribhuvan University, Nepal.
3. Sabita Gyawali. (2023). Effect of rhizobium, phosphorous and molybdenum on pea (*Pisum sativum*) performance and residual soil nitrogen, phosphorous and organic matter at Rupandehi, Nepal. Institute of Agriculture and Animal Science, Tribhuvan University, Nepal.
4. Saurav Marahatta. (2023). Assessment and mapping of soil heavy metals in Kathmandu valley. Institute of Agriculture and Animal Science, Tribhuvan University, Nepal.
5. Soniya Acharya. (2023). Nitrogen use efficiency and residual soil properties with combination of urea and Azolla in spring rice. Institute of Agriculture and Animal Science, Tribhuvan University, Nepal.
6. Bala Sharma. (2023). Identification and characterization of pigeonpea nodulating Rhizobia in Nepal. Institute of Agriculture and Animal Science, Tribhuvan University, Nepal.
7. Sabina Aryal. (2024). Effects of cover crop incorporation on soil properties and rice performance in organic production system in Chitwan, Nepal. Institute of Agriculture and Animal Science, Tribhuvan University, Nepal.

8. Kumud Kishor Koirala. (2024). Impact of cover crops on soil properties and performance of cabbage in organic production system. Institute of Agriculture and Animal Science, Tribhuvan University, Nepal.
9. Subarna Kandel. (2025). Comparative assesment of soil health, groundwater quality and grain nutritional composition under different farming systems. Institute of Agriculture and Animal Science, Tribhuvan University, Nepal.

Research Articles published in SCIMAGO rated Journals

1. **Shrestha, R.K**., Shi, D., Obaid, H., Elsayed, N.S., Xie, D., Ni. J., Ni. C. (2022). Crops' response to the emergent air pollutants. Planta, 256 (4), 80. Doi: 10.1007/s00425-022-03993-1.
2. **Shrestha, R.K**., Lei, P., Shi, D., Hashimi, M.H., Wang, S., Xie, D., Ni, J., & Ni, C. (2021). Response of maize (Zea mays L.) towards vapor pressure deficit. Environmental and Experimental Botany, 181, 104293. Doi:10.1016/j.envexpbot.2020.104293.
3. **Shrestha, R. K**., Engel, K., & Becker, M. 2015. Effect of transpiration on iron uptake and translocation in lowland rice. J. Plant Nutr. Soil Sci.,178, 365–369. Doi: 10.1002/jpln.20140036.
4. Xu, X., **Shrestha, R.K**., Shu, J., Cheng, H., Wang, H., Cui, H., Ni, J., & Ni, C. (2025). Photocatalysis of nanoparticles mediates the response of plants towards nitric oxide in air, Plant Physiology and Biochemistry, 223: 109817. Doi: 10.1016/j.plaphy.2025.109817
5. Xu, X., **Shrestha, R.K**., Shu, J., Cheng, H., Wang, H., Cui, H., Ni, J., & Ni, C. (2025). Photocatalysis of nanoparticles mediates the response of plants towards nitric oxide in air, Plant Physiology and Biochemistry, 223: 109817. Doi: 10.1016/j.plaphy.2025.109817
6. Shrestha, S. Poudel, A., Ojha, R.B., **Shrestha, R.K**., & Gairhe, J.J. (2025). Lime Requirement Comparison Between National Tabular Matrix and Standard Buffer pH Method. Applied and Environmental Soil Science, 2025(1), Doi: 10.1155/aess/6641618.
7. Panday, D., Maharjan, B., Chalise, D., **Shrestha, R.K**., & Twanabasu. B. (2018). Digital soil mapping in the Bara district of Nepal using kriging tool in ArcGIS. PLoS ONE, 13(10): e0206350. doi:10.1371/journal.pone.0206350
8. Shi, D., **Shrestha R. K**., Obaid, H., Elsayed, N.S., Zhong S., Hashimi, M.H., Cheng, Y., Xie, D., Ni, C, & Ni, J. (2023). Valorization of nitrogen-rich melamine as a nitrogen source in the production of maize (Zea mays L.). Industrial Crops and Products, 199:116770. Doi: 10.1016/j.indcrop.2023.116770.
9. Lei, P., **Shrestha, R.K**., Zhu, B., Han, S., Yang, H., Tan, S., Ni, J., & Xie, D. (2021). A bibliometric analysis on nonpoint source pollution: Current status, development, and future. International Journal of Environmental Research and Public Health, 18(15), 7723. Doi: 10.3390/ijerph18157723.
10. Obaid, H., **Shrestha, R.K**., Liu, D., Elsayed, N.S., Ni, J. & Ni, C. (2022). Biofortification of maize with zinc and its effect on human health. J Soil Sci Plant Nutr, 22,1792–1804. Doi: 10.1007/s42729-022-00772-5.
11. Thapa, P., **Shrestha, R.K.,** Kafle, K., & Shrestha, J. (2021). Effect of different levels of nitrogen and farmyard manure on the growth and yield of spinach (Spinacia oleracea L.). Agraarteadus :Journal of Agricultural Science, 2(XXXII), 335–340. Doi: 10.15159/jas.21.21

Research Articles Published in Others Journals

1. Pandey, P. Adhikari, K.R., Gairhe, J. Adhikari, B.B., **Shrestha, R.K**., & Khanal, D. (2023). Rice straw management practices in Rupandehi District, Nepal. Journal of the Institute of Agriculture and Animal Science, 37(1), 82–90. Doi: 10.3126/jiaas.v37i1.56982
2. **Shrestha, R.K.,** Paudel, S., Wagle, S., Ghimire, S., & Yadav, D. (2018). Performance of rainfed lowland rice genotypes under different levels of boron application. Int. J. Soil Sci., 13 (1), 28-34. 10.3923/ijss.2018.28.34.
3. K.C., Sabina, Kumal, S., Katuwal, D.R., & **Shrestha, R.K.** (2023). Effects of different levels of potassium and their split applications on growth and yield of chilli (Capsicum annuum L.). Asian Journal of Agricultural and Horticultural Research,10(4), 364-373. Doi: 10.9734/ajahr/2023/v10i4278
4. Paudel, T.R., **Shrestha, R.K.,** & Khanal, A. (2019). Performance of Different Varieties of Cauliflower (Brassica Oleracea Var. Botrytis) Under Different Levels of Phosphorus Application in Pot Culture at Lamjung, Nepal, World Journal of Agriculture and Soil Science, 3(4):1-5. Doi: 10.33552/WJASS.2019.03.000568.
5. Tamang, P., & **Shrestha, R.K**. (2018). Effect of phosphorus application on performance of cauliflower (Brassica oleracea var. botrytis) Varieties. Acta Scientific Agriculture, 2(9), 66-68.
6. Timilsina, A., & **Shrestha, R.K.** (2018). Performance of cold tolerance rice under different levels of nitrogen application. Acta Scientific Agriculture, 2(7), 32-34
7. Pokhrel, T.R., **Shrestha, R.K.,** Khanal, A., & Shrestha, J. (2018). Phosphorous effects on early growth of maize (Zea mays L) varieties in Ultisols. Agricultura, 3(4), 44-48. Doi: 10.15835/agrisp.v107i3-4.13129
8. Shrestha, A., **Shrestha, R.K**., Thapa, S., & Shrestha, A. (2025). Effect of Azotobacter Inoculation in Association with Other Fertilizers on Growth and Yield of Maize (Zea Mays) Varieties in Nawalpur, Nepal. Turkish Journal of Agriculture - Food Science and Technology, 13(6): 1464-1470, Doi: 10.24925/turjaf.v13i6.1464-1470.7469
9. Shrestha, A., Thapa, S., **Shrestha, R.K**., Shrestha, A., Awasthi, P., & Ranabhat, S. (2025). Effect of Azotobacter in Association with Other Nutrient Sources on Soil Properties in Maize (Zea mays) Field of Nawalpur, Nepal. Turkish Journal of Agriculture - Food Science and Technology, 13(5): 1241-1247, 2025 Doi: 10.24925/turjaf.v13i5.1241-1247.7471
10. Bhantana, P., Moussa, M.G., Malla, R., Khadka, D., **Shrestha, R.K.,** Vista, S.P., Bhatta, L.R., Raut, J.K., & Hu, C.X. (2022). Foliar versus soil biofortification of Zn in citrus (Citrus reticulata blanco) effect on mineral nutrition and fruit yield and quality. Biomedical Journal of Scientific and Technical Research, 41(3), 32755-32768. Doi: 10.26717/BJSTR.2022.41.006612.
11. Bhusal, B., Lamichhane, S., & **Shrestha, R.K**. (2018). Maping the soil fertility of Bisankhel catchment of Chitlang VDC and comparison of different geo-spatial interpolation techniques. Journal of Institute of Agriculture and Animal Science, 35, 95-104.Doi: 10.3126/jiaas.v35i1.22519.
12. Lakshyadeep Devkota, **Ram K. Shrestha**, Keshar B. Khatri, Bipin Acharya, Sagar Sharma. 2023. Interactive effect of soil moisture content and nitrogen fertilizer sources on growth and nitrogen uptake in maize. Agricultura, 3-4(127-128), 52-63. Doi: 10.15835/agr.v129i3-4.14728.
13. Panthi, J., Shrestha, **R.K., Shrestha**, S., Manandhar, B.D., Bhatta, N.P., & Devkota, S. (2020). Response of cauliflower (Brassica oleraceae var. Botrytis L.) to different levels of boron under maize based cropping system. J. Inst. Agric. Anim. Sci., 36: 231-240. Doi: 10.3126/jiaas.v36i1.48425.

14. **Shrestha, R.K**., Amgain, L. P., & Aryal, S. (2016). Assessing the effect of phosphorus application on early growth of maize at Sunderbazar, Lamjung, Nepal. Journal of Maize Research and Development, 2 (1), 117-122. Doi:10.3126/jmrd.v2i1.16222.
15. **Shrestha, R. K.,** & Becker, M. (2015) Symptom evolution in rice genotypes under iron toxicity conditions. J. Inst. Agric. Anim. Sci., 33-34, 147-150. Doil:10.3126/jiaas.v33i0.20697.
16. Adhikary, R., and **Shrestha, R.K**. 2018. Efficacy of Azolla pinnata in rice (Oryza sativa L.) production in Nepal. Advance Research in Agriculture and Veterinary Science, 5 [1]:04-06.
17. Sapkota, A. **Shrestha, R.K**. and Chalise, D.R. 2017. Response of Maize to the Soil Application of Nitrogen and Phosphorous Fertilizers. International Journal of Applied Science and Biotechnology, 5(4): 537-541. Doi:10.3126/ijasbt.v5i4.18777.
18. Gaire, A., Samjhana Koirala, S., **Shrestha, R.K.** and Lal Prasad Amgain, L.P. 2016. Growth and Productivity of Different Cultivars of Rice Under Nutrient Expert© and Other Fertilizer Management Practices at Lamjung. . International Journal of Applied Science and Biotechnology, 4(2): 178-182. Doi: 10.3126/ijasbt.v4i2.14974.
19. Kalauni, S., **Shrestha, R.K.,** Ojha, R.B. and K.C., Santosh. 2016. Nitrogen stress on maize roots in subtropical condition of Nepal. Int. J. Soil Sci. 11: 137-142. Doi: 10.3923/ijss.2016.137.142.
20. **Shrestha, R.K.,** Amgain, L. P., and Aryal, S. 2016. Assessing the effect of phosphorus application on early growth of maize at Sunderbazar, Lamjung, Nepal. Journal of Maize Research and Development, 2 (1): 117-122. Doi: 10.3126/jmrd.v2i1.16222
21. **Shrestha, R. K.** (2015). Soil fertility status of rice field in Paundi watershed, Lamjung District, Nepal. American Journal of Agriculture and Forestry, 3(3),120-123. Doi: 10.11648/j.ajaf.20150303.20
22. **Shrestha, R. K.** (2015). Iron exclusion in rice genotypes as affected by different vapor pressure deficit conditions. AJA., 2(4), 115-117.
23. **Shrestha, R. K.** (2007). Role of Energy in Rural Poverty Alleviation. Nepalese Journal of Development and Rural Studies, 4(1), 57-63.

Research in Proceedings

1. Parajuli, B., & **Shrestha, R. K.** (2015). Soil fertility mapping of Purkot Village Development Committee, Tanahun District by using GIS. *In* eds (Jaishi et. al., 2015), Proceeding of Undergraduate Practicum Assessment. Vol. 2. Lamjung, Research and Development Centre, IAAS, Lamjung Campus (PP 122-125).
2. Marahatta, S., & **Shrestha, R. K.** (2015). Effect of phosphorous at early growth stage in rice**.** In M. Poudel [Ed.], *Proceeding of Undergraduate Practicum Assessment, IAAS* (pp 131-134). Lamjung: Institute of Agriculture and Animal Science, Lamjung Campus, Nepal.
3. Subedi, S., Timilsina, U., Yadav, P. K., Regmi, B. D., & **Shrestha, R. K**. (2014). Interaction effect of nitrogen, phosphorus and potassium on early growth of maize (*Zea mays* L.) Genotypes. *In* eds (Regmi et al 2014), *Proceeding of Undergraduate Practicum Assessment*, Research and Development Centre, IAAS, Lamjung Campus (PP 131-134).
4. Neupane, D. K., **Shrestha, R. K**., & Regmi, B. D. (2014). Screening of nitrogen use efficiency in maize (*Zea mays* L.). In B.D. Regmi (Ed.), *Proceeding of Undergraduate Practicum Assessment*, Research and Development Centre IAAS, Lamjung Campus (pp 108-110).

General Articles

1. **श्रेष्ठ, राम कुमार, र** अधिकारी, केशवराज . (२०७५). **धानबाली उत्पादनको लागि खाद्यतत्वका समस्या तथा ब्यबस्थापन**.सं भण्डारी थानेश्वर र साथीहरु. *परिवर्तित जलवायुमा धानबाली अनुसन्धान, उत्पादन प्रविधी तथा बजारीकरण*, अनुसन्धान तथा पकाशन निर्देशनालय, कृषि र पशु बिज्ञान अध्ययन संस्थान, काठमांडौ नेपाल, पेज ६२–७६ । प्रकाशन: २०७४ चैत्र ।

2. खत्री, केशर बहादुर, र **श्रेष्ठ, राम कुमार**. (२०८०). खेतबारीमा बाली अवशेषको महत्व र व्यवस्थापन, प्रादेशिक कृषि दर्पण, बर्ष ५, अंक १२, २०८० मंसिर २०८० चैत्र, पेज ३५–३७, कृषि विकास निर्देशनालय, कोशी प्रदेश, बिराटनगर, नेपाल ।

3. **श्रेष्ठ, राम कुमार, अर्याल, सरोज** .(२०८०). **स्वस्थ माटो र बाली उत्पादन**.सं राम कुमार श्रेष्ठ र साथीहरु, लमजुङ क्याम्पस संवाद २०७९, अनुसन्धान बिकास तालिम तथा प्रसार केन्द्र, लमजुङ क्याम्पस, लमजुङ, नेपाल, पेज ५५–५९ ।

4. **श्रेष्ठ, राम कुमार**.(२०७८). **मकैबालीमा देखिने खाद्यतत्वको कमी, तिनका असर र समाधानका उपायहरु**. सं राम कुमार श्रेष्ठ र साथीहरु, लमजुङ क्याम्पस संवाद २०७८, अनुसन्धान बिकास तालिम तथा प्रसार केन्द्र, लमजुङ क्याम्पस, लमजुङ, नेपाल, पेज ४१–५३ ।

5. दहाल, समिक्षा, **श्रेष्ठ, राम कुमार,** .(२०८१). कोदोका परिचय, खाद्यतत्वको कमी र व्यवस्थापन, प्रादेशिक कृषि दर्पण, बर्ष ५, अंक १३, २०८१, चैत्र २०८१ असार, पेज २६–२९, कृषि विकास निर्देशनालय, कोशी प्रदेश, बिराटनगर, नेपाल ।

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