

Journal of the Plant Protection Society

Volume 6

2020



Plant Protection Society Nepal

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PLANT PROTECTION SOCIETY NEPAL

In the Memeory of



(Demised on August 21, 2020)

**Late Dr. Ram Babu Paneru,
Senior Entomologist
of
the Nepal Agriculture Research Council (NARC)
and
the Secretary of the Plant Protection Society Nepal (PPSN).**

THE PRESIDENT'S MESSAGE

I am glad and honored to pen down the message for the Journal of Plant Protection Society Nepal (PPSN) as a president of the society. In this auspicious occasion, I take this opportunity to thank the executive and other members and look forward to our teamwork in creating conducive environment to achieve the better plant protection services for the benefit of farmers.

Since its inception, the society has endeavored as a scientific forum to organize and conduct educational activities designed to promote and encourage the development, advancement, and exchange of scientific information in the field of plant protection.

If we wish Plant Protection Society to grow and achieve for plant protection professionals and improved image and recognition, in both the scientific and public sectors, we should strive to keep a clear view of the appropriate endeavors for each area of our discipline and give support and encouragement wherever warranted.

The Journal of Plant Protection Society Nepal, a peer reviewed agricultural science document, has fulfilled and helped plant protection professional as a platform to update and exchange knowledge in varied aspects of plant protection field. The Society, committed to the highest standards of professional ethics providing with quality information, is a leader in the professional fields of plant protection in Nepal. This issue of the journal also includes review articles and research papers on different aspects of agriculture in general and plant protection in particular. Several imitativeness such as making PPSN a professional leader, influence in public policy making, and supporting the ability of all members to be engaged with the society are urgent.

Two major areas that presently concern us are 1) what we should be, and what we should be doing 15 or 20 years from now, and 2) what, if anything PPSN can do to manage invasive crop pests and also in the wide spread development of resistance to pesticides on the part of the target pests.

The first official journal of the PPSN was released in 2010. As a member for many years, I have witnessed the Society's steady growth; thanks to the efforts of all its previous leaders and highly enthusiastic members to help develop milestones for the successors. I would like to express my recognition for the excellent work and tireless efforts of our predecessors.

I am very thankful to Knowledge-based Integrated Sustainable Agriculture and Nutrition (KISAN) II PROJECT of USAID in Nepal for the support in the hard copy printing of this volume.

The Journal of PPSN, 6th endeavor, is at your hand. A big congratulation is obvious to the editorial team for getting society journal — The Journal of the Plant Protection Society in this form.

We encourage our readers to contribute their valuable experiences to the forthcoming issues of the journal. I thank the entire team for the untiring efforts, predominantly by dynamic editorial board.

Achyut Prasad Dhakal

President, Plant Protection Society Nepal

10 Nov. 2020

EDITORIAL

Plant Protection Society Nepal (PPSN) is a professional organization that holds together all persons related to the plant protection sector in the country working in government (GO) and non-government (NGO) organizations as well as private sectors. Since its establishment in 1990, the society has been regularly publishing journal and workshop proceedings thus documenting the outcomes of plant protection research and development in the country. Journal of the Plant Protection Society, an official publication of the Society, is one of the key endeavors towards wider dissemination and sharing of plant protection related outcomes of researches, reviews, studies and investigations in the country.

With ever-increasing number, scope and activities of various organizations such as universities, colleges, research institutes, GOs, NGOs and business organizations, we expect an increasing number of plant protection related research projects and activities in the country striving for bringing helpful results to solve targeted problems. On such ground, researchers, development workers and private entrepreneurs should have multitude of research based findings to share to wider community concern to plant protection. In this regard, PPSN received many research articles from authors, which, however, some of them could not be qualified for publication through the peer reviewing processes. The editorial team encourages those authors to continue their best efforts in research methodology and write-up of their research findings as per suggestions made by individual peer reviewers to be qualified for future publications.

We gratefully acknowledge the regular supports extended to the society by various institutions and individuals in contributing their valuable research documents in the current issue of the journal. We also express our sincere gratitude to the authors for their interest on publishing manuscripts in the journal, the reviewers for their timely remarks and valuable suggestions on improving the manuscripts, and the members in the executive committee for their moral supports. We are also thankful to all subscribers, readers and well-wishers of *the Journal of the Plant Protection Society*.

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