

ANNUAL REPORT 2020



Progress



Inclusivity



Development

Royal Association for Science-led
Socio-cultural Advancement (RASSA)

28/142 (GF), West Patel Nagar, New Delhi 110008

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**4th
Annual Report- 2020**



**Royal Association for Science-led
Socio-cultural Advancement (RASSA)**

28/142, West Patel Nagar, New Delhi-110008

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PREFACE

It is my privilege to place an account of activities of RASSA for 2019-20, encompassing the period from 3rd to 4th Foundation Day. We all know that this has been a very frightening period due to dreaded pandemic Covid-19, forcing everyone to face lock downs, slowdowns in all spheres of life. But life goes on and adapts to adverse situations. Same is true for a society, a country and humanity. Difficulties rather present situations where our ability to serve people, humanity and country with greater zeal and vigour. India successfully managed the first wave of Corona with minimal loss.



People are our strength. When we work collectively, the individual, the society and the country progress. We are in a country which virtually started developmental journey in fifties with 18% of literate people and life expectancy of about 32 years. Level of progress made by our country, despite high population growth rate, is huge and impact would be clearly visible when compared with situation in neighbouring country. The credit goes to one and all individual Indians, our societies, our institutions and visionary leaderships for working in unison in bringing in self-reliance on many aspects and improved human developmental indices and economy and resource development making us aspire to start our journey to be superpower serving humanity at larger level.

Our Society, RASSA is young. But our members have huge professional competence and richness in terms of their goal in life. Despite adverse situations, we have been consistently pursuing our goals for fulfilment of vision and mission of RASSA. During the year under report, we held our National Executive meetings, celebrated our Foundation Day, selected members for various awards to recognize their professional contributions and conducted seminars and conferences, may be in virtual mode. In a way, virtual meetings seem more participative and impactful making people to effectively contribute while being in comfort of their own offices or homes. The success of Webinar organized on as broad topic as **“Self-Reliant India as Future Global Superpower”** covering sub-themes ranging from agriculture to infrastructure, sustainable business practices, neighbourhood, internal and external policies, cultural heritage and environment management needed for India. Credit goes to people like Dr Pavnesh Kumar, Prof. Rana Pratap Singh and Janardan Singh as convener and team, and with Prof N. K Singh in Chairing the inaugural session in success of the program. I wish to mention contribution of Dr Dheeraj Singh in helping society in able manner all the time.

I also place on record my gratitude to the RASSA Patron, Executive Committee/Council and all RASSA members for their unflinching faith and support. Though no word can supplement but I still wish to place on the record the untiring and dedicated work of Dr S.P Singh for his support in managing the affairs of the society. I thank and appreciate all sponsors and donors and each and every member of the society for their help and support and confidence bestowed in the management and expect similar proactive participation and support in days to come.

A handwritten signature in black ink, appearing to read 'Awadhesh Singh', written over a horizontal line.

(Awadhesh Kumar Singh)

President

PROLOGUE

RASSA Editorial Board extends thanks to Patron, RASSA for his continuous guidance and help in shaping the society to emerge as a multidisciplinary professional body serving professionals as well as in the development of society at large based on scientific advancements.

RASSA is thankful to all the members for extending their full support in strengthening the RASSA multifarious activities.

Special thanks to the members and our sponsors for generous in contributing/donating finances to help society in carrying out the different activities. Our sponsors are the real backbone of the association and valuable asset for the organization in furtherance of its objectives.

RASSA Editorial Board

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RASSA at a Glance

Science-led interventions carry the potential for the development of people and the country. Innovations can only help if they reach the ground as quickly as possible. Efforts from all responsible organizations including Government is to harness the potential of resources for benefit of the people. A professional society, coupled with its social obligations to reach farmers, with scientific innovations for realization of benefit to the masses for economic, educational or health management and improving their living condition can prove to be boon for the society.,

Royal Association for Science-led Socio-cultural Advancement (RASSA) is a society formed by like-minded Scientists/ Technocrats/ Business persons and other luminaries to help people improve their status and contribute in overall advancement of the people in a sustainable manner, protecting natural resources and ecosystems.

Vision

To create a strong and coherent community sensitive to the social, cultural & educational needs and serve the society and especially the resource-poor people by adopting science-led approaches.

Mission

To engage like-minded intellectuals in serving the needy people of the society through science-led interventions.

Objectives

1. To create a platform for likeminded people for the overall sustainable advancement of the society.

2. To promote the educational and economic well-being of people in changing social dynamics by formulating the plans and creating interest for entrepreneurial activities through skill development.
3. To mentor and provide economic support to bright young individuals from the unprivileged section of the Society
4. To provide opportunity and help to business professionals to setup and run their businesses in emerging fields
5. To organize conferences, meet, fare, Kisan Gosthi (RASSA-Kisan Sahyog Karyakram) etc., to update the community on science-led techniques
6. To publish a multi-disciplinary Journal and Sandesh for promotion of science

Membership

RASSA is a unique society that include professional of all disciplines of sciences and technology together with people from other walks of life in the society. It has three types of membership, i.e. Core Members (Foundation Members and Life Members), Kisan Members, Scientific Journal Members (SJM) and Student Members. As such source of knowledge, user members and channel of dissipation of knowledge through RASSA Journal of Science for Society and Rajarshi Sadesh, all is available with a umbrella. Fast and accurate transfer of technology helps them to perform their functions efficiently leading to larger benefits. Scientific Journal Members are offered to professionals only for joining as Annual member or life member.

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रासा कार्यकारिणी

संरक्षक	श्री पंजाब सिंह	श्री अयोध्या नाथ सिंह, FM 072	कर्नाटक, तामिलनाडु
सलाहकार मंडल	श्री कीर्ति सिंह	श्री भोम सिंह देवड़ा, FM 013	गुजरात एवं महाराष्ट्र
	श्री एस आर सिंह	श्री जय राम सिंह, FM 074	हरियाना
	श्री रामेंद्र सिंह	श्री दिनेश कुमार वत्स, FM 011	हिमाचल एवं
	श्री एन पी सिंह		जम्मू-कश्मीर
	श्री डी एस सेंगर	श्री ब्रिजेश सिंह, FM 023	उत्तराखंड

2.1 राष्ट्रीय

अध्यक्ष	श्री अवधेश कुमार सिंह, FM 001
उपाध्यक्ष	श्रीमती अलका सिंह, FM 010
	श्री आर डी सिंह, FM 018
	श्री राना डी पी सिंह, LM 038
	श्री सुधांशु सिंह, FM 026
महासचिव	श्रीमती कंचनलता सिंह, FM 002
सचिव	श्री नित्यानंद सिंह, FM 041
	श्री अमित सिंह शेखावत, FM 012
	श्री सुरील सिंह, FM 160
संयुक्त सचिव	श्री गौरव प्रताप सिंह, FM 050
	श्री अमित कुमार सिंह, FM 096
	श्री आशुतोश सिंह, LM 011
	श्री मानवेंद्र सिंह, FM 004
	श्रीमती अर्चना सिंह, FM 055
कोषाध्यक्ष	श्री राजीव कुमार सिंह, FM 112

राष्ट्रीय कार्यकारिणी सदस्य

श्री एस के सिंह, FM 149	उत्तर प्रदेश
श्रीमती सुमन सिंह, FM 032	राजस्थान
श्री रुद्रप्रताप सिंह चौहान, FM 038	बिहार एवं झारखंड
श्री एस पी सिंह, FM 044	मध्य प्रदेश एवं छत्तीसगढ़
श्री राघवेंद्र सिंह, FM 024	पूर्वोत्तर प्रदेश

अनुसंधान पत्रिका 'RASSA Journal of Science for Society'

मुख्य संपादक	श्री नागेंद्र कुमार सिंह, FM 007
कार्यकारी संपादक	श्री गोविंद प्रताप राव, FM 062
	श्री विशाल सिंह सोमवंशी, FM 138
	श्री शिव प्रताप सिंह, FM 014

पत्रिका 'राजर्षि संदेश'

मुख्य संपादक	श्री जनार्दन सिंह, FM 008
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2.2 लखनऊ

चेयर पर्सन (उपाध्यक्ष)	श्री ज्योत्सनेन्द्र सिंह, FM 146
उपाध्यक्ष	श्री शिव नायक सिंह, LM 125
सचिव	श्री अनिल कुमार सिंह, FM 039
कार्यकारिणी सदस्य	श्री राकेश कुमार सिंह, FM 125
	श्री अभिषेक सिंह, LM 080
	श्री आर पी एन सिंह, LM 183
	श्रीमती दीपाली सिंह चौहान, LM 060
	श्री विनय कुमार सिंह, FM 046
एक्स आफिसियो सदस्य	श्री सत्येन्द्र कुमार सिंह, FM 149
	श्री राना डी पी सिंह, LM 038

2.3 जम्मू और कश्मीर

अध्यक्ष (उपाध्यक्ष)	श्रीमती पूनम परिहार, FM 140
सचिव	श्री अरविंद प्रकाश सिंह, LM 015
	श्री महिताल जामवाल, LM 110

संयुक्त सचिव
श्री महेन्द्र सिंह भडवाल, LM 112
श्री संजय गुलेरिया, LM 017
श्री ब्रजेश्वर सिंह भाउ, LM 047
श्री शरद कुमार, LM 048
श्री संजय प्रकाश सिंह, FM 089

प्रदेश कार्यकारिणी सदस्य

श्री पी एस सलाथिया, LM 005
श्री सुधीर कुमार, LM 108
श्री अशोक कुमार सिंह, FM 157
श्री अंजनी कुमार सिंह, LM 113
श्री अमित जसरोटिया, LM 007
श्री अमित कुमार सिंह, LM 019

2.4 वाराणसी

चेयरपर्सन (उपाध्यक्ष) श्री अरुण कुमार सिंह, LM 022
उपाध्यक्ष श्री हरेंद्र प्रताप सिंह, FM 139
सचिव श्री कुलदीप सिंह, FM 085

संयुक्त सचिव श्री नरेंद्र रघुवंशी, FM 053
श्रीमती मुक्ता सिंह, FM 127
श्री जीत नरायन सिंह, LM 089
श्री शैलेंद्र रघुवंशी, RKM 002

कार्यकारिणी सदस्य

श्री आलोक कुमार सिंह, FM 051
श्री रुद्र प्रताप सिंह, FM 019
श्री मानवेंद्र बहादुर सिंह, FM 052
श्री संजय कुमार सिंह, FM 152
श्री राना पियुष सिंह, FM 020

एक्स आफिसियो सदस्य

श्री सत्येन्द्र कुमार सिंह, FM 149
श्री राना डी पी सिंह, LM 038

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RASSA Meetings

3.1 National Executive (NE)

First Virtual N E meeting was held on 07 June 2020 under Pandemic situation. Members discussed the activities of last year and pray to Almighty for well beings of all RASSA members with their families. It was emphasized by the President that effectiveness of any society is linked to its strength. He also emphasized that more and more farmer members need to be enrolled so that RASSA can play active role with farming community in changing scenario. It was agreed that each existing member of society should take a target to enroll at least five life members during the year 2020-21.

It was informed that three issues of two volume of RASSA journal of Science for Society and two issues of volume 1 of Rajarshi Sandesh have been published. It was highlighted that every time the society faces the situation of shortage of quality papers for publication. It is essential for the journal to bring out timely publication containing quality research papers. This attracts professionals and impact is created for recognition of Journal. Members agreed with the idea that each scientist member should make effort to contribute at least one paper for this journal in a year. NE members also agreed to contribute write up useful for farmers for publication in the Rajarshi Sandesh.

Following General Body (GB) decision at UP College Varanasi held on 13.10.2019 was also discussed,

- GB approved the establishment of Varanasi Unit. Dr Kuldeep Singh (FM 85), Secretary of the unit has voluntarily offered a place for Varanasi Unit and the unit has been operationalized.
- GB unanimously agreed to continue the activities of Conference, Kisan Gosthi and publications.

- Hon'ble Vice-Chancellor Dr U S Gautam, Banda University of Agriculture and Technology, Banda offered to host 2020 Conference at Banda.
- As per earlier GB decision, RASSA awards (Rajarshi, Maharshi and Yashasvi) will be conferred in the year 2020. GB had a strong opinion about conferring awards to eligible members only, and awards shall be presented in person only.
- It was unanimously agreed to induct only such person in RASSA as Core Members who fulfil the eligibility criteria as per RASSA mission, vision and objectives.
- Members are requested to be vigilant in getting and passing information about activities of RASSA.
- A need was also felt to constitute a committee for looking at social activities of RASSA.
- Members were also urged to set RASSA activities as one of their priorities in the participation of its event.

RASSA got emails from NITI Aayog regarding rendering help to needy under pandemic Noval-19 Corona situation. Matter was discussed in length and it was decided to help needy. Voluntarily members may come with a plan.

Smooth functioning of any society depends on proactive support of its members. Matter was discussed in length and unanimously decided to urge the members for generous support for welfare of RASSA in terms of contributing research articles, popular articles, financial support for corpus fund individually or with sponsors, sharing the responsibility etc.

This year RASSA awards will be conferred to the members (FM and LM) of the society. The number of each award are decided and given below,

Awards	No.
Rajarshi	01
Maharshi	03
Yashasvi	09

In addition to earlier conditions, following terms and conditions of awards are decided unanimously for addition which are given below,

- RASSA awards shall be given to those members who have not received any award yet.
- Contribution to strengthening the society shall also be one of the major criteria.
- No awards shall be given to NE (President, Secretaries, Joint Secretaries, Treasurer) and award committee members.
- Dr D K Vatsa, FM-9 and Director of Research, CSKHPKV, Palampur kindly accepted to become the Coordinator of RASSA Awards.
- It was also proposed by Dr Ramender Singh (FM 80), Member, Advisory Board of RASSA for making attempt to meet the expense of awards involving expense of about Rs. 30, 000/ biannually. He agreed to look for to donate a sum of about Rs. 5 lakhs so that award expenses can be met out of interest from the deposit. Agreed to proceed with the proposal after RASSA is accorded with income tax exemption on the donations.

Under Pandemic situation in the country, the matter was discussed and it was unanimously agreed to hold the National Conference and Foundation Day program as a virtual event. For smooth conduct of virtual event, following decisions were taken,

- Help of professional agency may be explored for organising the event.
- Some selected presenters may be at one place where program is organised and people participation will be virtual (from their place on app). Members locally

available in the city or any other interested members can remain physically present at the venue.

- Registration etc shall be handled in the same way as applicable and modalities can be decided.
- Dates of event will be finalised in next meeting in consultation with the sponsoring University.

The need of having another website for online journal was also discussed. The online journal may increase impact of the journal and attract contributors as well help in getting better recognition/ impact factor. Online journal will be having DOI. Dr Janardan Singh informed the expense of about Rs. 15,000-20,000. The proposal was agreed in principle.

A need was felt to search the means of source of fund for meeting recurring expense of the Society and also to work as per the mission and vision of RASSA to help needy and subscribe to the programs related to farmers. A scheme of Rs. 100 per month or lumpsum yearly by members is going on where very less members are contributing towards generation of Corpus Fund. The matter was discussed by many members and decided to put the issue in General Body.

- Fraternity cooperation needs to be strengthened as family members.
- Members may help in getting sponsors for Journal and Rajarshi Sandesh.
- There is need to have interaction of like-minded industry people with RASSA.
- A WhatsApp group of Royal Kisans may also be created for meeting their needs, quarry etc. Dr Rudra Pratap Singh agreed to take responsibility.

2nd Virtual NE Meeting was held on 20.09.2020 through Google Meet. Following decisions were taken as per thorough discussions,

Members were apprised that the nominations for award of Rajarshi, Maharshi and Yashasvi Samman were called

during period from 15th July 2010 to 14 September 2020. A duly constituted Awards Committee met on 18.09.2020 through virtual meet and on examination of nominations, unanimously recommended candidates for award of one Rajarshi Samman, three Maharshi Samman and nine Yashsavi Samman for the year 2020.

Under Pandemic Situation, ways and means for conducting Foundation Day programme was discussed and as advised by the members a virtual event on Foundation Day is planned to be celebrated at Gross Roots Research & Creation India Pvt. Ltd., Noida on 01.11.2020 (i.e. Sunday). About 15 to 20 members would be physically present following Covid-19 Protocol and remaining members will join through online. General Body Meeting shall also be held on the day through on-line mode. A virtual award ceremony will also be held to confer RASSA Samman 2020. As per the decision of NE, it would be customary here onwards to play RASSA Geet before start of any RASSA program.

Proposed National Seminar at BAUT, Banda is cancelled due to Pandemic situation. In place of this, a National Webinar shall be organized on a theme 'Self Reliant India as Future Global Superpower' by Central University Motihari with following sub-themes;

- Sustainable Business Practices for Promoting Self-Reliant India;
- India's Push for Entrepreneurship;
- Assessment of India's Foreign Policy for the Future;
- Role of Agricultural Policy in Orientating India's Global Push;
- Environment Friendly and Clean Power Source to become a Global Superpower;
- Strategic Development of Infrastructure in India;
- Understanding India's Immediate and Extended Neighbourhood in Context to Future Challenges;
- Analysis of India's Internal Politics for Shaping up the Dream of Self-Reliant India;

- India's Cultural Heritage as its Great Power for Making a Tolerant, Conflict less World;
- India's Push for Global Leadership and World Dynamics.

NE constituted a three-member committee consisting of Prof Rana Pratap Singh, Prof Janardan Singh and Prof Pavnesh Kumar with Prof Pavnesh Kumar as Convenor. The NE also empowered the committee to take suitable and appropriate steps needed for organizing the webinar successfully. As to whether the National webinar shall be for one and half day or two days and also for restricting and expanding the sub-themes, the committee shall have full authority to deliberate and decide. However, NE suggested that it should be ensured that students and farmers get enough involvement in the process. Accordingly, it was suggested that being a webinar, nominal fee of Rs 200 for students and Rs. 500 for others may be charged. Committee may think to introduce some awards like best presenter (theme-wise) and outstanding/ eminent scientist/teacher/ extension/social worker / industry awards etc. and seek approval of Executive wherever, needed. The papers/ views presented in the National webinar will also be published as e-book.

It is observed that about 15-20% members are actively participating in the various programs of the RASSA while large chunk of membership is silent spectator. There is need for increase in the percentage of active members if society has to make dent as per its mission and vision. Members have thoroughly discussed the matter and made following suggestions,

- The contributors may be suitably honoured in the National level program of RASSA to boost their moral and attraction of new contributors.
- Sponsors and motivating members may also be honoured in such program.
- RASSA Members including Founder Members may be once again urged to make at least one member during the year 2020-2021 and also contribute at least

one paper for RASSA Journal and articles for Rajarshi Sandesh.

There was discussion about the ways of raising the issues, if any pertaining to members, RASSA. It was a unanimous view that the appropriate forum is the meetings of state executive and National Executive directly and not on WhatsApp group in any case. If any such important issue crops up, the office holders like president of state unit, National President may be contacted for any matter needing immediate resolution, if it cannot wait till next meetings to take place. There should be some protocol for writing on Whatsapp as this is not an appropriate platform for discussion on intricate issues where unconcerned members start giving opinion without knowing the subject and gravity of the matter. Members unanimously agreed on the view and urged the members to follow the same so that the discipline remains intact.

Hon'ble President encouraged participating NE Members to express their views towards strengthening RASSA. The views expressed by members are as follows,

- a) Members expressed the interest to have RASSA Memorial Fellowship to help needy students and support budding intelligentsia to blossom fully. The fellowship may be funded by individually or collectively by RASSA Members. Participating NE members discussed thoroughly on the matter and appreciated the views. NE approves the constitution of RASSA Memorial Fellowship from Year 2021 onwards. The individual level fellowship may be started with at least Rs 1 lakh and Collective level fellowship may be at least Rs. 2 lakhs. The frame works, guidelines and criteria will be decided by a committee for the purpose. During meeting some of the members expressed interest in establishment of these two types of fellowships. RASSA Members/ Founder Members may come forward for starting fellowship.
- b) Members appreciated the custom of affording time to all the participants to speak what they like that

may enrich the working of the association and enrich the interest of members in working for the society.

- c) Members were generally appreciative of the working of RASSA since its formation in 2016 for achievement, accrued benefits to members and society.

3.2 General Body Meeting

The General Body (GB) meeting was held at Grass Root Research & Creation India (P) Limited, F-374 & 375, Sector 63, Noida on 01.11.2020. The 7th GB meeting was held online through CISCO Webex (meeting link: <http://tiny.cc/RASSA>). Nearly 15 members were physically present at the venue and rest Honourable members join through this link. The General Body was Chaired by Er Awadhesh Kumar Singh, President RASSA. After brief note by RASSA President, Dr Shiv Pratap Singh presented the agenda for discussion in GB.

The agenda set for this meeting was discussed and following decisions / approvals were taken by the GB;

1. Progress during year (3rd to 4th Foundation Day)

Farmer's activity

Amongst adopted villages by RASSA, Dr AS Shekhawat and Dr Narendra Singh Raghuvanshi are doing activities in the village of Sitapur, Varanasi and Jaunpur districts. A whatsapp group of RASSA farmers has been created and managed by Dr Rudra Pratap Singh. Farmers are being benefited by solving their technical problems.

Student's Activity

A Girl student of Sitapur district has been supported by the RASSA for continuing her Intermediate study.

A whatsapp group of RASSA students has been created and managed by Dr Rudra Pratap Singh. RASSA student are being benefited by providing needful information.

RASSA Vidyalay for tribals

A RASSA Vidyalaya for tribals children of Naugarh tehsil, Chandauli (Aspirational district) is being supported

by RASSA. The Vidyalaya is being operated by RIDF, Varanasi.

RASSA professional activities

Two issues of Volume 1 and Volume 2 of RASSA Journal of Science for Society has been published. Total 53 articles have been published in these issues.

Two issues of Volume 1 and one issue of Rajarshi Sandesh has also been published. 29 articles have been published in these issues along with agricultural activities in coming months and achievements of RASSA family.

2. RASSA Awards, Fellow etc

As per earlier decision of GB, RASSA awards (Rajarshi, Maharshi and Yashsavi) and RASSA Fellow are given in alternate years. The opinion of GB was asked in this meeting and GB holds its earlier decision. GB did not approve any other awards besides these two awards. However, GB approves continuation of professional awards (Best teacher/scientist/ extension, eminent scientist/teacher/extension, young scientist/teacher/extension, best paper, best poster, best PG and Ph. D thesis) in conference/seminar/webinar.

3. RASSA Memorial Fellowship Award

Extended National Executive had decided to formulate RASSA Memorial Fellowship awards in its meeting. RASSA Memorial Fellowship awards will be of two types, 1. Collective and 2. Individual. Minimum Rs 2 lakh is for collective RASSA Memorial Fellowship and Rs. 1 lakh for individual RASSA Memorial Fellowship. Individual fellowship will be in name of donating member and collective fellowship will be in the name of RASSA.

Some members agreed for donation in these fellowship awards. These awards will be given to students for making their career. The amount will be fixed and fellowship will be given from interest. The fellowship will be started from Year 2021 onwards. General Body approves the proposal of National Executive.

4. National and State Executives for the year 2021-23

Opinion of General Body was asked for National and State/Unit executives during the year 2021-23 as the term of present National and State/unit executives are ending on 31st March 2021. Matter was discussed in details by the General Body (GB) and GB extends the term of present executives for 2021-23. GB also empowered the President RASSA for selecting the team.

5. Any other

Members suggested for

- National Executive may approach competent authority/ person for having their own office.
- A need was felt by members for having concrete information on e-mandi so that it can be communicated to our Kisan members for increasing their monetary benefits.
- A need of having Jan Sampark Karta for popularising the mission of RASSA.
- A need of dedicated member is needed for activities of RASSA to extend their hands.

Members expressed their satisfaction and consented with the progress made by RASSA during the presented year.

4

RASSA Professional Activities

National Webinar

Royal Association for Science led Social-cultural Advancement (RASSA) organised a national webinar on 'Self Reliant India as Future Global Superpower' on 1st of November 2020. The webinar was convened by Er. A.K. Singh (President, RASSA) along with Prof. Pavnesh Kumar from Mahatma Gandhi Central University, Motihari, Bihar as organising secretary of the event.

At the outset, Dr. Pavnesh Kumar, Professor - cum-Organising Secretary, Mahatma Gandhi Central University welcomed the delegates and introduced the guests and speakers of the inaugural function. Dr. N. K. Singh, National Professor and B P Pal Chair, ICAR-IIPB, New Delhi on the behalf of the RASSA also formally extended a warm welcome to all those dignitaries and participants attending the session. Academicians, Research Scholars, Farmers and students from various institutions of the country participated in the webinar. He briefed the activities and achievements of RASSA. He told that within four years of its existence, RASSA has developed and evolved itself as an intellectual body and has contributed tremendously for the development of the rural community besides the publication of its Journal and Magazine.

Afterward, key speakers delivered their key note talks. Dr. Rakesh Kumar Singh, Professor-cum-Head, Department of Agriculture Economics, Institute of Agricultural Sciences, BHU, Varanasi discussed Farmer's Produce Trade and Commerce Act, Farmers Empowerment and Protection (Agreement on price assurance and farm services Act and Essential Commodities Act. He told that these have been done for promoting market reforms as Farmer's real problem is to get the right prices for their crops in the market. A

primary Mandi under APMC covers 92 thousand farmers and 30 license holders whole sellers. While a good market must have a large number of buyers and sellers, the agriculture sector saw a Monopolisation of a small number of Whole sellers who made a powerful cartel over time. Now, with the new legislation, a farmer can sell their crops outside Mandi also. Now any private body and person can purchase things/the produce directly from the farmers. It will help farmers to get a good price for their produce. It also helps in dispute handling.

Another key speaker, Prof. Suresh P. Singh, former Vice-Chancellor, Himalayan University Chimpu Itanagar and VKS University Ara, Bihar. He discussed the negative aspects of green revolutions where he mentioned the use of fertilizer in long run makes land barren, lowers the level of groundwater and higher doses of pesticides leach into the ground rendering it unusable for drinking and irrigation. Now-a-days we can see a lot of crops available all over the year but which was not possible for few decades after independence. It has been made possible because of the efforts of our Government and Scientists but we need to decrease the usage of chemicals and move towards sustainability and renewable energy sources for our agricultural needs. This is the need of the hour to combat climate change and environmental problems which are eminent on us in the future.

Prof. Ram L. Singh, Hon'ble Vice-Chancellor, Nilamber-Pitamber University, Medininagar, Palamu, Jharkhand was the Guest of honour of the function. He emphasized on few very relevant subjects for all-round development of India. He stressed for revival and modernization of agriculture sector simultaneously taking care of the welfare of farmers. He stressed that environmental changes taking place should be cause of concern for us. Health hazards are also a reality and a suitable PPP model

must be developed to combat all these issues and making the necessary infrastructure. India's superpower dream will only be realized if proper care is taken for these critical issues. Simultaneously, he emphasized that our policy on education should develop responsible citizenry, capable and competent to take head on with the world in the area of human development, retaining and enriching culture and heritage of India in the zeal of propelling India in journey of becoming a global superpower.

Dr. Onkar Nath Singh, Hon'ble Vice-Chancellor, Birsa Agricultural University, Kanke, Ranchi and Chief Guest of the function. He said that India has competent enough to fulfil its need without the help of any other country. But, being a global body, we need to have relations on equal footing with everyone. India with resources, human power and infrastructural capabilities, India is ready to start its journey to be self-reliant sustainably and becoming a superpower. The Green Revolution was the need of the hour in the 1960's, but over time, the harmful effects of using chemical fertilizers on agricultural lands has brought huge adverse impact that needs to be corrected. Though the Green revolution is only credited for rice and wheat production, but a phenomenal rise in the production of Sugarcane, Potato, Milk, Fruits, Cotton, Fishery, etc has also been noteworthy.

Er. A.K. Singh, Hon'ble President, RAASA, New Delhi also welcomed and appreciated the dignitaries, who expressed their thoughts on key areas of Agriculture, Environment, health etc. He talked about India having low resources when compared with its large population. He highlighted India's untapped agricultural potential in 6 distinct seasons to support production of different crops in one season in a area and the same crop at other location in different season. He stressed for the strategy where farmers are ensured for the right prices of their products timely. Protection from middlemen is warranted and is possible with establishment of supply chain between farmers as producer of the product and consumers in nearby cities and urban areas. It is the foremost duty of Scientists of Agricultural Universities and KVK

particularly to work at the grass-root level with farmers to make them aware of the new policies of the government and how the same can benefit them.

Prof. N.K. Singh, National Professor and B P Pal Chair, ICAR-IIPB, New Delhi presented his presidential address. He said that unquestionably, India's bid to become a global superpower goes through the path of Self-reliance. Self-reliance must not be considered as the act of producing everything on our own but it should be in economic terms e.g. Crude Oil imports are a major pain point for the Indian economy. Self-reliance for India will also ensure employment to a large section of people. The agriculture sector showed a 3.5% growth as a sector while other sectors didn't show such an improvement. The products must not be mass-produced but production must be by masses i.e. a large population must be involved in the all-round development of the country. Proper investment of GDP should be done in the science sector for propelling India for producing technological goods. This is a long process and must be done seriously over time to achieve our larger goals.

Dr. Rudra Pratap Singh, Scientist (Plant Protection), ANDUAT-Krishi Vigyan Kendra, Azamgarh presented vote of thanks, followed by the National Anthem.

Technical session

Technical Session was chaired by Dr A K Singh, Professor and former Head, Department of Extension Education, Banaras Hindu University, Varanasi and co-chaired by Dr Janardan Singh, Professor, Department of Agronomy, CSK Himachal Pradesh Krishi Vishvavidyalaya, Palampur. Mr Sidharth Gosh, Ph. D Scholar, Mahatma Gandhi Central University, Motihari, Bihar served as rapporteur of the session. Crop diversification, sustainable agriculture, conservation agriculture, organic farming, post-harvest technologies, electric prime mover for clean power, role of animal husbandry, entrepreneurship etc were various aspects/ themes of the session.

At the outset, the Chairman welcomed the delegates participating in the seminar and invited the speakers one by one to present their research paper. Scientists/ Research Scholars belonging to diversified fields from different institutions/universities including Amity University, Noida (UP), CSK HPKV, Palampur (HP), SKUAST, Jammu (J&K), Banaras Hindu University, Varanasi., CSA University of Agriculture and Technology, Kanpur (UP), GTN, Art College, Dindigul-5, Tamilnadu., ICAR-IARI, New Delhi., DUVASU, Mathura (UP) etc orally presented their research papers. Twenty-three research abstracts were received and fourteen papers were presented during the session.

Presentations were evaluated and some presenters were conferred with the 'Best Oral Presentation Award'. Following presentations have been awarded,

1. 'Impacts of land use paradigm shifts on agricultural economy: Sustainable management' by Ibha Suhani, Sinha Sahab and Rajeev Pratap Singh of Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi.
2. 'Infrastructure augmentation in India: A march towards socio-economic prosperity' by M. S.

Fathima Begum of G.T.N Arts College (Autonomous), Dindigul-5, Tamil Nadu

3. 'Conservation Agriculture: Alternative way to maintain soil resource base' by Shilpa and Janardan Singh of Chaudhary Sarwan Kumar Himachal Pradesh Krishi Vishvavidalya, Palampur.
4. 'Sustainable infrastructure development of education system in India' by Manav Suri and Shreya Mathur, Students of, Amity School of Business, Amity University, Uttar Pradesh AUUP, NOIDA U.P.
5. 'Entrepreneurship development for sustainable agricultural development' by Poonam Parihar, Rakesh Nanda, P.S.Slathia and Jasbir Manhas of SKUAST-J, Chatha, Jammu
6. 'Role of animal husbandry to strengthen the socioeconomic condition of the livestock owner's of India' by D. N. Singh of Department of Livestock Production Management, College of Veterinary Science & Animal Husbandry, DUVASU, Mathura, Uttar Pradesh.

Mr Ranvijay Singh, a farmer from Azamgarh was also awarded for his presentation on dairy farming.

5

RASSA Foundation Day

The Foundation Day was celebrated at Grass Root Research and Creations (P) Ltd, Noida on 01.11.2020. Under Pandemic situation due to COVID-2019, this year Foundation Day was celebrated through on-line mode and some members assembled at venue. The Chief Guest of the Foundation Day was Prof Krishna Kumar Singh, Member, ASRB, GOI, New Delhi and Guest of Honour was Prof Ashok Kumar Singh, Director and Vice-chancellor of ICAR-IARI, New Delhi. Sh A. K Singh, President, RASSA presided over the Foundation Day function. Dr Amit Singh Shekhawat, Secretary RASSA anchored the event. The Foundation Day was started with RASSA Geet 'समय की शिला पर ऐ उभरी जो रासा'. Dr Kanhaiya Singh, Founder Member welcomed the Chief Guest, Guest of Honour, President and all the Hon'ble RASSA members joined on/off line on the day. List of participants are given in annexure-1.

Video message of the advisors of RASSA was displayed on the screen. Chairman of Advisory Board Prof Kirti Singh expressed his happiness towards the activities carried out by RASSA for farmers. He also appreciated the RASSA for recognizing and appreciating the good work done by RASSA member by RASSA awards. Fellow award given by RASSA is also a very good step and he stressed for its need. He greeted all the RASSA members including executives for doing good work.

Prof S R Singh, former Vice Chancellor appreciated the works of RASSA through his text message given hereunder,

'Members of the RASA are descendent of the freedom loving people who sacrificed for the dignity, freedom and preservation of culture of this nation. Following their footsteps, the members are striving hard to uplift the nation by pursuing different professions. I have fulfilled this endeavor by writing a monograph "Fundamentals of Subsurface Hydrology", which in my opinion is a lead contribution to the growing pool of the scientific literature

in the country. I whole heartedly thank RASSA team for organizing the RASA foundation day - cum - General body meeting on 1st November, 2020. I wish the meeting a grand success.'

Dr N P Singh, Former Director of one of the ICAR Institute in Maharashtra, in his audio message also expressed his happiness on foundation day. HE expressed that the activities carried out by the RASSA are very good and he expects the continuity of such work for agriculture and allied sectors.

Dr Ramendra Singh in his video message spokes on RASSA vision, mission and objectives. He outlined the significant activity carried out by RASSA for farmers through it's out-reach programme, RASSA Journal of Science for Society, RASSA awards for encouraging members etc. He called the members for inclusion of young members in the RASSA.

Prof R B Singh rightly described the meaning of RASSA and appreciated RASSA members for initiating the needed timely work. He suggested that the members may work dedicatedly for the benefit of society as per its vision, mission and objectives.

Prof N K Singh also narrated the various activities of RASSA for the benefits of farming community, scientific community, members and students. He called the members for increasing the strength of society.

The address of Sh A. K. Singh, President RASSA, delivered on the occasion of foundation day is reproduced below;

'जब मन अशांत हो, तो मंदिर जाते हैं। जब शांत होता है, तो सोचते हैं कारण क्या था और समाधान सोचते हैं? लेकिन जब कोई मन जन-मन से उद्वेलित हो तो वहाँ संस्था का निर्माण होता है। वह संस्था ही मंदिर होती जाती है, जहाँ हम सोचते हैं, कि समाधान क्या है?

यह वह देश है, जिसने "जननी जन्मभूमिश्च स्वर्गादपी गरीयसी" और "वसुधैव कुटुम्बकम्" जैसा सूत्र दिया। हमारे पास दुनिया के लिए बहुत कुछ था। लेकिन तब हमारी मंशा समझने लायक संसार नहीं था। बीच में आ गए मुगल और फिर अंग्रेज। हमारे संसाधनों को लूटा, हमारी शिक्षा और आर्थिक व्यवस्था खराब किया। कृषि, कुटीर उद्योग, ग्रामीण अर्थव्यवस्था, सांस्कृतिक विरासत व जीवन मूल्यों को निर्ममता से कुचला। उनके आने के क्रम में विषम परिस्थितियों में भी हमारे पूर्वजों ने अपने शौर्य से इतिहास लिखा, जिसपर हमें गर्व है। स्वतंत्रता मिली लेकिन उन नीतियों से मुक्ति नहीं मिली। शासक शासित सा संबंध अब भी है। विकास हुआ, पर फायदा उनको नहीं हुआ जो असली हकदार थे। इसमें कुछ लोग बहुत धनी हो गए और बाकी बहुत गरीब। जीव और जगत दोनों परेशान। देश, गाँव और शहर में बंट गया। अमीर और गरीब में बंट गया। खाने का अनाज है, फिर भी बड़ी आबादी को दोनों वक्त खाना नहीं मिलता। आधी आबादी बेहद गरीबी में है। शिक्षा की भारी कमी है। काफी बच्चे स्कूल नहीं जाते। पढ़े लिखे घूम रहे हैं। नौकरी नहीं। काम नहीं। गाँव नौजवानों से खाली हैं। घर छोड़ काम की तलाश में भटक रहे हैं। सुधार की कुछ शुरुआत है, पर जमीन पर अब भी हैं सूनापन।

पहले के जमाने में हर गाँव में कोई ना कोई इतना सक्षम होता था, जो गाँव को अपनी जिम्मेवारी मानता था। वह नहीं रहा। अब सब एक से हैं और सब परेशान। जिन्होंने अपने को जिम्मेदार माना, उनकी अहमियत अब समाप्त है। यही सामाजिक पीड़ा थी, जिसके नाते कुछ समान विचार धारा के लोगों ने मिलकर यह मंदिर बनाया, जिसका नाम रासा है। इसकी परिकल्पना है "विज्ञान-सम्मत सामाजिक-सांस्कृतिक उन्नयन" की। यह प्रतिभा एवम विलक्षणता को निखारने की बात करता है, विविधताओं तथा प्राकृतिक संसाधनों के संरक्षण, संवर्धन और प्रबंधन की बात करता है, शिक्षा, सेवा और उद्यमशीलता की बात करता है तथा अपने संस्कृति, संस्कार और आपसी सहयोग को सुदृढ़ बनाने की बात करता है। रासा-गीत इसका सम्पूर्ण परिचय है;

संस्था मात्र चार साल पुरानी है। समाज के सभी तरह के लोग जैसे डाक्टर, इंजीनियर, वैज्ञानिक, वकील, समाज सुधारक, व्यवसायी, किसान, छात्र इसके सदस्य हैं। हमारी सदस्यता के लिए कठिन जांच से गुजरना होता है, ताकि

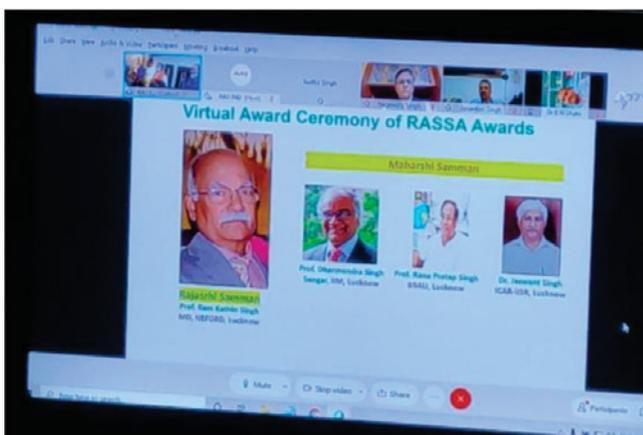
सोच बची रहे। कुछ निम्नवत कार्यक्रम संस्था ने शुरू किया है;

1. गाँव को गोद लेना और उन्नत कृषि के तरीकों और आदानों से परिचित करना।
2. किसानों का गुप बनाकर उनकी समस्या का समाधान।
3. छात्रों का गुप बनाकर उनकी समस्याओं पर समाधान देना।
4. आदिवासी इलाकों में छात्रों को पढ़ाई के लिए प्रोत्साहित करना।
5. गरीब मेधावी बच्चों फीस में मदद करना।
6. सेमीनार, वर्कशॉप के माध्यम से नई शोध को किसानों तक जल्दी पहुंचाना।
7. समाज के मेधावी बच्चों को सम्मन एवं प्रोत्साहन।

इस संस्था की खास बात है कि लोग इससे किसी लालच में नहीं जुड़े। ज्यादातर लोग वे हैं जिनके अंदर ज्ञान है, दक्षता है, क्षमता है कि लोगों की मदद कर सकें, उनका जीवन सुधार सकें और समाज के लिए कुछ कर सकें। जहां इस तरह की इच्छा है, तो राह आसान हो जाती है। संसाधन भी देर सबेर हो जाते हैं। इसकी चार साल की यात्रा काफी रोचक रही है। हमने लखनऊ, वाराणसी, जम्मू तथा जे.एन.यू. दिल्ली में सेमीनार किया। भरपूर समर्थन मिला। आज भी एक राष्ट्रीय वेबिनार "Self-Reliant India as future Global Power" विषय पर मोतीहारी से हो रहा है। हमें केवल सक्षम लोगों को प्रेरित करना है कि गाँव की तरफ वैज्ञानिक तरीके से काम कराने में ध्यान दें। सिर्फ 100 में से पाँच लोग अपने ही गाँव को विकास के लिए गोद ले लें, तो हर गाँव किसी न किसी के संरक्षण में होगा और एक साथ ही विकास की गूँज सुनाई पड़ेगी। रासा की गतिविधियों का दायरा असीमित है। साधन सीमित है, पर हिम्मत पूरी है। काम बहुत है, समय कम। उद्देश्य बड़ा है। सहभागिता और विश्वास के साथ दृढ़ निश्चय और सही रणनीति की जरूरत है, सफलता जरूर मिलेगी।

RASSA awards were conferred to RASSA Members by the Chief Guest on the Foundation Day. Details of awardee are briefly described in chapter 6.

Glimpse of On-line and Off-line Foundation Day







Guest of Honour Prof A K Singh expressed his happiness on the 4th Foundation Day. He greeted all the members on this occasion. He spoke on the food grain losses in the country and called for social awareness among people to reduce the huge losses. He appealed the members to take part in such awareness. He also called the members for helping the people in this pandemic situation.

Chief Guest of the Day Prof K K Singh spoke on the various activities carried out by RASSA for benefit of farmers through training, technological awareness and information. He stressed the need of horizontal and vertical expansion of society. Farmers' and industry link may help in achieving the planned activities. Formulation

of short term and long term program will help RASSA in achieving the target as per its vision and mission. There is need to work on marketing side as it will have direct impact on farmers' income. Crop diversification in the area need to be analysed first before marketing link development. Liaison may be developed for increasing the Corpus Fund so that needy can be helped for their future.

Dr Nityanand Singh, Secretary RASSA presented vote of thanks to Chief guest, Guest of Honour, Advisory Board, and all hon'ble members of RASSA. He thanked Dr Dhiraj Kumar Singh for hosting this event.

6

RASSA Awardees-2020

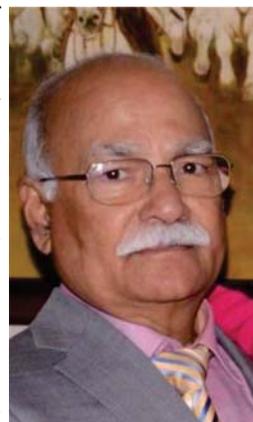
Royal Association for Science-led Socio-cultural Advancement (RASSA) instituted RASSA Awards (RAJARSHI, MAHARSHI and YASHASVI) from the year 2016 and it is awarded alternate year from year 2018. The RAJARSHI Samman is the highest Samman of the Society which is given to such Luminary members as Life time achievement, whose contributions are par excellence in his fields and also for social cause and upliftment including his/her contribution for society too. The MAHARSHI Samman is the 2nd highest Samman given to such members (three- five) based on their contributions for society and his fields too. YASHASVI Samman is given to such members (Nine to fifteen) whose immense contributions for development of Society and also his/her contributions in their field of specialization too. The contribution towards Society includes in terms of introducing new members, conference organised/attended/associated, webinar organised/attended/associated, sponsorship, kisan gosthi, meetings of RASSA at different places, articles for RASSA journal/ Rajarshi Sandesh and society building etc. Based on the above mentioned criteria, a committee was constituted by the Er Awadhesh Kumar Singh, President, RASSA. Dr D K Vatsa, Director of Research, CSKHPKV Palampur was Chairman of the Committee. Following were the members of the committee,

Dr G P Rao, FM 062, Delhi	Member
Dr Rana D P Singh, LM 038, Lucknow	Member
Dr Lalji Singh, FM 043, Raipur	Member
Dr P K Singh, FM 033, Varanasi	Member
Dr B S Deora, FM 013, Gujrat	Member
Dr Gaurav Pratap Singh, FM 050, Delhi	Member
Dr S P Singh, FM 014, Delhi	Member Secretary

The Committee unanimously recommended for RASSA Awards under different categories. The RASSA Awards were conferred in a Virtua award ceremony during its Foundation Day by Chief Guest Dr Krishna Kumar Singh, Member, ASRB, GOI, New Delhi on 03.11.2020. The program was organised online at Grass Root Research and Creations (P) Ltd, Noida.

Dr Ram Kathin Singh *Rajarshi Samman*

He was born in village Tajopur of erstwhile Azamgarh District, now Mau, on the 01.02.1942. After early education in rural schools, he passed his high school and intermediate from Jiwan Ram Inter College, Mau and topped the UP Board of Examinations in I. Sc. (Ag.). He did his B.Sc. (Ag.) and M.Sc. (Ag.) Botany from Government Agriculture College,



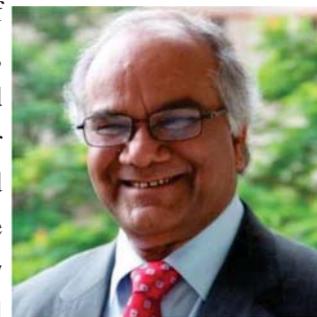
Kanpur and secured 1st position in Agra University. After a brief period of teaching at TD Post-graduate College, Jaunpur and GBPUAT, Pantnagar, he proceeded for Germany to pursue higher studies under German Exchange Fellowship. In 1968, Dr. Singh completed his Ph. D. degree from Rostock University, Germany with a rare distinction, 'Suma-cum-laude,' after a gap of 5 years. After a year of post-doctoral work at the Institute of Statistics and Biometrics, Hannover, Germany, he returned to India and joined Haryana Agriculture University as Associate Professor of Genetics in 1970. He then became Professor in 1975, a position that he held till 1984. While at HAU, Dr. Singh developed a world-fame center for teaching and research in 'Biometrical Genetics' which became a referral point for students, teachers and researchers throughout the

world. He also guided a large number of students leading to their M.Sc. and Ph.D. degrees. Also, during this period, Dr. Singh received Bursary Award given by British Royal Society and thus, had a chance to work with K. Mather and J. L. Jinks, the founders of Biometrical Genetics, at the University of Birmingham, UK. In 1985, he joined as Professor at BHU, Varanasi for a brief period of about 6 months and then moved to ND University of Agriculture and Technology, Faizabad (now Ayodhya) as Director of Research. He worked there for about 10 years and during this period established a strong center for research by forging close collaboration with national and international organizations, like IRRI, CYMMIT and others. Between 1995 and 2004, he worked for IRRI as Liaison Scientist and Representative and helped to strengthen rice research in India and other South Asian countries. After retirement from IRRI in 2004, Dr. Singh joined NAAS as Secretary and subsequently, as Vice President and worked there for 4 years. All through his professional career, He was deeply involved in research and management and published about 250 research papers in national and international journals. He also authored about 15 books, some of them are widely acclaimed throughout the world. In 2004, Dr. Singh also established an NGO and since then he has been actively working with the farmers, particularly in eastern UP. Some significant achievements include revival of Kalanamak, a rice variety which was once at the verge of extinction, development and promotion of climate-resilient crop varieties and practices to fight climatic aberrations, making farmers self-sufficient in seed by establishing a farmer-led Seed Production, Processing and Distribution Unit. His NGO also runs a 'Farmers' Service Centre' which caters to all the needs of farmers such as seeds, fertilizers, chemicals, farm-equipment etc. Recognizing his services to farmers and science, Dr. Singh has been honored with several awards and appreciation, such as 'Sipani Krishi Anushandhan Farm Award-2005' given by Asia-agri Foundation Society, 1st 'Mahindra Sambridhi Agri-Award-2012' handed over by the then Minister of Agriculture, Sri Sharad Pawar ji and 'PHSS Foundation Award' for Science and Society, Lucknow-2018. He is

also a Hindi writer par excellence and has published over a dozen of books of poetry and stories for which he has received several prestigious awards including the 'Sahitya Bhushan Samman-2014' given by Uttar Pradesh Hindi Sansthan, Lucknow.

Prof. Dharmendra Singh Sengar *Maharshi Samman*

With more than 38 years' of experience in academics, administration, law and management, Prof Sengar has been the Director and Vice Chancellor of the Indian Law Institute, New Delhi (Deemed Central University); the Vice- Chancellor, Mohanlal Sukhadia University, Udaipur, (Rajasthan) and the Joint Director, Academy of Administration, Nainital. Prof Sengar served the Indian Institute of Management Lucknow as the founder Chairman and Professor, Legal Management Area, for more than 2 decades. Presently, he is the Member, Advisory Board, Atal Incubation Centre & the Member, Board of Studies, School of Management and Entrepreneurship, JNU. Prof. Sengar is also the Member of Accreditation Advisory Council of India.



Having obtained his doctoral degree from Lucknow University, he was honoured with Senior Fulbright (Post-Doctoral) Fellowship at the George Washington University, Washington DC, USA. He was awarded with the prestigious Shastri Indo-Canadian Institute Fellowship for his Post-doctoral work at University of Calgary, Canada. Prof. Sengar obtained his executive education in Leadership & Negotiation from the Harvard Law School, USA.

Prof. Sengar has made academic contributions at about 40 Institutions in U.S.A, U.K., Canada, Sweden, Malaysia, Singapore, Korea, Vietnam, Netherlands and Switzerland. He contributed as the member of the Doctoral Committee of V U University, Amsterdam,

Netherlands. He was nominated for a programme on mediation at London School of Mediation, London.

Prof. Sengar has been a member of several international professional bodies including the U.S. Academy of Legal Studies in Business; International Association for Commercial Management, USA and the International Association for Business and Society (IABS). He is the Fellow of World Business Institute, Australia.

Having made several contributions in the form of research papers, authored and edited books including a book on 'Environmental Law' and 'Public Interest Litigation'. His teaching and research interests includes Corporate Law and Management, Environmental Law and Management, Intellectual Property Management and Contract Management and Negotiation etc. He conducts executive education programmes for top/ middle management executives of prestigious organisations of private and public sectors and also contributes through various consulting assignments.

Prof Sengar's transformational leadership qualities reflect in the initiatives like 'Adopt-a-Tree'; 'Adopt-a-Village'; Eco-Drive & Clean up Campaigns. He motivated students both inside and outside the IIM campus and inculcated amongst them a sense of duty to return to Environment and Society. He was instrumental in electrifying a village adjacent to IIM Lucknow. As a member of RASSA, he organised various meetings in his village at kantha in district Unnao (UP) along with RASSA President with a view to understand farmers issues and find solutions. He also organised a big Kisan Mela in his village with a view to create awareness amongst farmers about various programmes and schemes of Government of UP. In recognition of his distinguished and outstanding contribution in the area of environmental protection and sustainable development, Prof. Sengar received Capital Foundation National Award by the Hon'ble Chief Justice of India. Prof Sengar has also been honoured by prestigious Fulbright Alumni Grant Award from the US Government for creating enviro-legal awareness amongst the Indian youth.

Prof Rana Pratap Singh

Maharshi Samman

He was born on 1st February, 1959 at Prithvipur district Kushinagar, Uttar Pradesh and educated initially up to 12th schools and colleges. He graduated in Gorakhpur in 1975-1979. He is Professor in Environmental Science and Dean Academic Affairs as well as Dean Research and Development in the Central University Babasaheb Bhimrao Ambedkar University, Lucknow. He earned a Ph. D. in Life Sciences in the field of Nitrogen Metabolism in Plants from Devi Ahilya University Indore in 1985. Earlier he worked as faculty of Bioscience and Biotechnology at Maharshi Dayanand University, Rohtak during 1986-2005. He has worked as visiting scientist at AIIMS, New Delhi, University of Guelph, Ontario, Canada and Yunnan Agriculture University, Kunming, PR China. He earned 7 National and State Awards for research and academic contributions i.e. Panjab Singh Vishisth Krishi Vaigyanik Puraskar U P Academy of Agricultural Sciences, Lucknow, Scientist of Excellence Award Society for Plant Research, Meerut, India, AEB Honour Academy of Environmental Biology India, Lucknow, R. D. Asana Medal Indian Society for Plant Physiology, New Delhi, JEB Young Scientist Award Academy of Environmental Biology India, Lucknow, First prize award on Poetry Book Haryana Sahitya Academy, Chandigarh (1988-89), First prize award on Children's Book Haryana Sahitya Academy, Chandigarh (1994-95) and other awards i.e. NSERC Biotech Visiting Fellowship - University of Guelph, Canada (1996), UNESCO ST Biotech Fellowship by UNESCO, Paris, France (1994), INSA Visiting Fellowship Indian National Science Academy, New Delhi, India (1992), Co-edited 18 books and published over 176 research publications which have been highly cited by the peers worldwide. His Google Scholar citation index show a total citation of over 4835 with a H index of 39 and i10 index of 87.



He is Editor-in-Chief of an International monthly Research Journal Physiology and Molecular Biology of Plants (Thomson Reuters IF-2.005), Co-published by Springer Nature and Professor HS Srivastava Foundation for Science and Society. He is also Editor and Editorial board Members of 3 more International journals. Presently he is President of Two National Academic Societies “The Society for Science of Climate change and Sustainable Environment” and “Society of Environmental Sustainability” and General Secretary of PHSS Foundation for Science and Society. He has contributed significantly in the field of nitrogen metabolism and heavy metal toxicity in Plants. His present research interests are Understanding biodiversity and ecological behaviour of rhizospheric microbes , Development of novel Climate Resilient Multifunctional microbial stimulants and Rhizo engineering of beneficial soil inoculants for sustainable agriculture and to design novel below ground and above ground agro-ecosystems for enhanced ecological and economic benefits. Professor Singh is actively involved in promoting innovation, technology, cultural built-up, education and MSMEs for Rural upliftment. He is fellow of Indian Water Resources Fellowship by Indian Water Resources Society (IWRS) (HQ: IIT, Roorkee), Fellow of International Society for Environmental Botanists, (ISEB), CSIR-NBRI, Lucknow, Fellow of Indian Society for Plant Physiology, New Delhi (HQ: ICAR - IARI, New Delhi), Fellow of Academy of Environmental Biology of India (HQ: CSIR - IITR, Lucknow). Presently he is Chairman of State Environmental Impact Assessment Authority, UP.

Dr Jaswant Singh
Maharshi Samman

He was born on December 01, 1951 in village Dighwat (West), P.O. Sakaldiha R.S., District – Varanasi (now Chandauli), UP. After getting his education up to junior high school from rural area, he did high school and intermediate science from Sakaldiha Inter



College, Sakaldiha. Later he earned his B. Tech. degree in Agricultural Engineering from GBPUA&T (erstwhile UPAU), Pantnagar in 1974; M. Tech. Agricultural Engineering (Crop Process Engineering) from I.I.T. Kharagpur in 1976; and Ph. D. in Agricultural Engineering in Process and Food Engineering from GBPUA&T, Pantnagar in 1987. After qualifying first batch of all India ARS Exam of ICAR in 1976, Dr Singh joined as Scientist S1 (Agricultural Structures & Process Engineering) at Central Plantation Crops Research Institute, Kasaragod, Kerala on September 29, 1976. After serving there for more than two years, he joined on transfer at Central Institute of Agricultural Engineering, Bhopal in same capacity on February 23, 1979. Dr Singh served CIAE Bhopal as Scientist S1 (AS&PE) till June 30, 1983; Scientist S2 (AS&PE) from July 01, 1983 to Dec.31, 1985; and Senior Scientist (AS&PE) from January 01, 1986 to May 30, 1995. He had undergone advanced training at University of Illinois and Colorado State University, Colorado, USA in 1986 for four months on extrusion- expelling and extrusion of soybean. He joined as Project Coordinator (Process Engineering), AICRP on Processing, Handling and Storage of Jaggery and Khandsari at Indian Institute of Sugarcane Research, Lucknow on May 31, 1995 and continued till March 31, 2004. He had gone on deputation to Zanzibar (Tanzania) as Sugarcane Expert for two weeks in 2003. Later he served as Sectoral PI (AICRP on PHT) & Principal Scientist (AS&PE) from April 01, 2004 to January 19, 2006. Dr Singh joined as Principal Scientist & Head, Division of Agricultural Engineering at ICAR-Indian Institute of Sugarcane Research, Lucknow on January 20, 2006 for five year tenure up to July 28, 2011. He superannuated as Principal Scientist on November 30, 2013. During the period Dr Singh developed various processes, equipment & machineries for different crops viz; plantation crops (coconut), oilseeds and mechanization of sugarcane & its products- juice and jaggery etc, established Ikshu Hub at IISR, published above 200 research papers in National & International Journals, 22 bulletins & 07 books. Besides research and development activities Dr Singh was instrumental in

development of state of art infrastructure at CPCRI, Kasaragod (1976-1979); CIAE, Bhopal (1979-1995) & IISR, Lucknow (1995-2013) in different capacities. He is member of various professional societies and held important positions like President of Engineering Sciences Section of Indian Science Congress Association (2001), Vice-President of Indian Society of Agricultural Engineers, New Delhi (2008-10), Founder Member of RASSA, New Delhi; Technical Director (Process & Food Engg.), Assoc. Editor J of ISAE; Founder Chairman, ISAE-Lucknow-Chapter (2014-contd). He organized winter school, various national and International seminars, symposiums, workshops, interface(s) & brain storming meetings & trainings etc as Director, Convener, Co convener, Chairman, & Co-Chairman. He is Fellow Institution of Engineers (India), Fellow Indian Society of Agricultural Engineers, Chartered Engineer of IE (I), Fellow Sugar Technologists Association of India, Fellow International Society for Noni; Member, Institute Management Committee of IISR Lucknow (1996-99); CIAE Bhopal (1986-89, 2008-11) & CIPHET Ludhiana (2008-11). He was recipient of commendation medal, outstanding team award, and outstanding book award of ISAE. He is Member, UP State Centre Committee of IE (I) Lucknow. Dr Singh was Member of Peer Review Team of ICAR for Banda University of Agri. & Tech., Banda (UP); Mahatma Phule Krishi Vidyapeeth, Rahuri (MS) and Dr BSKV, Dapoli (MS). He is Member and Co-convener of Board of Studies of AKTU, Lucknow.

Dr. Bijendra Narayan Shahi
Yashasvi Samman

He was born in village Narayanpur, District Uddham Singh Nagar, Uttarakhand on September 19, 1976. After getting his education UP Board intermediate, he graduated in BSc. (Biology) from the Kumaun University Nainital in the year 1998. Thereafter,



he earned his Master's degree Animal Breeding and Ph. D. from G. B. Pant University of Agriculture & Technology, Pantnagar, in 2000 and 2003, respectively. He joined as Assistant Professor Animal Science at G.B. Pant University of Agriculture and Technology, Pantnagar, in January, 2006. Presently, he is working as Associate Professor in the department of Animal Genetics and Breeding, College of Veterinary and Animal Sciences, GBPUA&T, Pantnagar. He is having fifteen years of teaching, research and extension experience and he has also guided many post graduate students. He has assigned various additional duties as Assistant Warden, Member Research Advisory Committee, Staff Counsellor Game and Associate Director, Instructional Dairy Farm at Pantnagar.

Besides teaching several courses of Animal Science and Animal Breeding to B.V.Sc, M.V.Sc. and Ph.D. student. Dr. Shahi has been involved in research on different aspects as Livestock breeding and improvement, Poultry production and management and Molecular biotechnology. Dr Shahi handled three ICAR Projects and One DST Project as Co- Investigator on different aspect as i) All India Coordinated Research project on Uttarakhand goats ii) All India Coordinated Research project on Sahiwal iii) Integrated Farming System & Human Resources Planning & Management for Livelihood Security and Capacity Building of Tribal Community in Uttarakhand iv) North Western Himalayan Bioinformatics Grid “Comparative Genome Sequencing for identification of valuable genes in indigenous Badri cow (Hill Cattle) of Uttarakhand.

He also organized farmers training programmes on various accepts of livestock production and management for the benefit of farming community. He also delivered more than hundred lectures to the farmers during training programmes. He has published about 25 research papers in peer reviewed journal and published one book and many lead papers in different Seminar / symposium. He has also been awarded as *Young Scientist Award* and *Excellence in Teaching Award* by different societies. He is life member of many professional Societies.

Dr Poonam Parihar

Yashasvi Samman

She was born in District Kathua, UT, Jammu & Kashmir on December 17, 1966. She was graduated from Haryana Agricultural University (HAU), Hisar in 1991. She acquired her M.Sc. Degree in Extension Education in 2000 from Dr. BR Ambedkar University (Formerly Agra University), Agra and Doctorate in Agricultural Extension in 2005 from the same University. She passed Post Graduate Diploma in Rural Development in 2005 from IGNOU (Indira Gandhi National Open University). She worked as Lecturer at GHSC College, Chandigarh and taught the students of UG and PG in the areas of Extension Education, Communication, Sociology and Social Welfare. She worked as Training Assistant in Krishi Vigyan Kendra at RS Pura, SKUAST-Jammu, where she worked in the areas of processing, preservation and value addition of fruits, vegetables, milk products and created awareness about entrepreneurship development amongst the unemployed youths and rural masses especially women- folk and drop outs. She is working as Assistant Professor in the Division of Agricultural Extension, Faculty of Agriculture, and SKUAST-Jammu. She is teaching to UG & PG classes in the areas of Fundamentals of Extension Education, Dimensions of Agricultural Extension, Communication and Diffusion of Agricultural Innovations, Entrepreneurship Development, Process and Methods of Communication, Advances in Training Technology, Media Management, Basic Agricultural Training, Rural Agricultural Work Experience and some other courses related to Extension Education. Her expertise is on entrepreneurship development. She has published a book titled, "Women Entrepreneurs- A Socio Economic Study". Besides, she has contributed a number of book chapters in many books. She has around 60 publications, including 13 research papers published in different esteemed journals. She invariably appears in TV and Radio talks



in local language as well as in Hindi and English. She has developed a considerable amount of Extension Literature on different topics. She is acting as a resource person of different NGOs, SAMETI, Entrepreneurship Development Institute (EDI) and Micro Small Medium Enterprises (MSME). She has an International Exposure. Recently she has so many university funded projects in hand & she is working on SHGs and their contribution in establishing women enterprises, role of Agripreneurship Development in Agriculture & providing employment to rural youths & moreover to agriculture pass outs & sustainability of Agriculture through Agripreneurship Development as this is the need of the hour.

She also got the golden opportunity to organize the National Seminar-2018 of the esteemed society RASSA as Organizing Secretary in collaboration with SKUAST-Jammu. She remained the joint organizing secretary, convener & rapporteur in many more prestigious societies/organizations. She is also the recipient of the following awards: Dr G.S. Vidyarthi Memorial Award, ISEE Fellow Award, Rashtraya Gaurav Award, Young Scientist Award, Bharat Jyoti Puraskar, Best KVK Professional Award, Presidential Award & Fellow of Hind Agri-Horticultural Society (FHAS) Award. She is working in so many committees on college & University level. She is also conferred upon so many Best oral & Best Poster Presentation awards.

श्री उपेन्द्र बहादुर सिंह

यशस्वी सम्मान

श्री सिंह का जन्म सिन्दरी, बिहार में 18 अगस्त 1968 को हुआ और मेरा घर सुजनीपुर जिला गाजीपुर में है। इन्होंने अपनी स्नातक की शिक्षा (बी. एससी. कृषि) उदय प्रताप कालेज वाराणसी से और स्नातकोत्तर की शिक्षा (एम. एससी. मृदा विज्ञान) गोरखपुर विश्व विद्यालय से की। वर्ष 1995 में कृषि विभाग में अनुबंध पर लखनऊ में कार्य करने लगे। वहां परिचय एक महान



विभूति डा. एल. बी. सिंह से हुआ। ये मेरे जीवन का निर्णायक मोड़ था। बाद में डा. एल. बी. सिंह साहब यू. पी. एग्री के महाप्रबंधक पद से सेवानिवृत्त हो गये। डा. एल. बी. सिंह साहब मेरे प्ररण स्रोत है। वह कहा करते थे कि नौकरी से कुछ नहीं होगा। इस लायक बनो की दूसरों को नौकरी दे सको। मैंने कृषि विभाग के कार्य से मन हटाकर एक कम्पनी बनाई। बड़ी मेहनत की। इस कम्पनी का नाम श्री साई नाथ एसोसिएट्स रखा। श्री साई का नाम लेकर आगे बढ़ा और लोगों से मिलने लगा। काफी परिश्रम के बाद मुझे एक बड़ा ब्रेक मिला और IRTM Railway में बड़ा आर्डर मिला। उससे मुझे आत्मिक खुशी हुई और मेरे मन को एक छोटी सी उड़ान मिल गई। इसके बाद छठत् और स्पोर्ट्स अथारिटी आफ इंडिया में आर्डर मिला। कठिन परिश्रम का फल मिल ही रहा था किन्तु पैसे का अभाव सामने आ खड़ा हुआ। कुछ लोगों से कर्ज लिया एवं मकान गिरवी रखकर व्यापार में व्यय किया। ईश्वर को धन्यवाद कि व्यापार सफल रहा। आज की तारीख में ईश्वर के द्वारा 2020 लोग मेरी एजेंसी के माध्यम से विभिन्न स्थानों पर नौकरी कर रहे हैं और अपने-अपने परिवार का भरण-पोषण कर रहे हैं। यह सोचकर मुझे भी आनंद की अनुभूति होती है। अभी मेरा लक्ष्य 10,000 की संख्या पार करने की है। मैं श्री साई नाथ एसोसिएट्स का मैनेजिंग डाइरेक्टर हूँ और लखनऊ में रहता हूँ।

प्रो. सुधीर प्रताप सिंह यशस्वी सम्मान

डा. सिंह भारतीय भाषा, साहित्य और संस्कृति अध्ययन केंद्र, जवाहरलाल नेहरू विश्वविद्यालय, नई दिल्ली में भारतीय भाषा केंद्र में प्रोफेसर के पद पर कार्यरत हैं। इससे पहले इन्होंने श्री अरबिंदो कॉलेज, दिल्ली विश्वविद्यालय और दिगंबर जैन (पी.जी.) कॉलेज बडौत, चौधरी चरण सिंह विश्वविद्यालय, मेरठ में अध्यापन कार्य किया। आपके विशेषज्ञता का क्षेत्र मध्यकालीन और आधुनिक हिंदी कविता एवं हिंदी आलोचना है।



आपको कई पुरस्कार और सम्मान प्राप्त हुये, जिनमें से कुछ प्रमुख है, 2018 में उच्च शिक्षा निदेशालय, नई दिल्ली सरकार के एनसीटी “कॉलेज शिक्षक / व्याख्याता के लिए

पुरस्कार” के रूप एक लाख रुपये के पुरस्कार द्वारा सम्मानित किया गया। पूर्वापर, स्पंदन और लेशियाम, पूर्वाचल, उत्तर प्रदेश, 2018 के परिवार द्वारा “साहित्य सम्मान” प्रदान किया गया, “इंडियन काउंसिल फॉर कल्चरल रिलेशंस, दिल्ली” 2015 में विभिन्न प्रसिद्ध विदेशी विश्वविद्यालय द्वारा स्थापित “हिंदी के चेयर” के लिए प्रोफेसरों के हिंदी पैनल में आपको चुना गया। प्रो. सिंह ने दो पुस्तकें लिखीं और सोलह पुस्तकों का संपादन किया। आप केन्द्रीय हिंदी, वैज्ञानिक और तकनीकी शब्दावली आयोग मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा प्रकाशित व्यापक शब्दावली: गणित, खंड-XXI के निर्माण में केंद्रीय हिंदी संस्थान, आगरा, हिंदी विशेषज्ञ के एक विशेषज्ञ के रूप में हिंदी सिंधी लर्नर्स डिक्शनरी के निर्माण में हिंदी भाषा वैज्ञानिक के विशेषज्ञ के रूप में कार्य कर चुके हैं। आपने निकट भविष्य में प्रकाशित होने वाले हिंदी विश्वकोश, केंद्रीय हिंदी संस्थान, आगरा के लिए लेखन प्रविष्टियाँ तैयार करने में भी सहयोग किया है।

दिल्ली विश्वविद्यालय की नवाचार परियोजना योजना के तहत आपने हिंदी साहित्य के प्रख्यात विद्वान प्रोफेसर मैनेजर पांडे (प्रसिद्ध हिंदी आलोचक) के जीवन संबंधी वृत्तचित्रों को पूरा किया। 2016 में हिंदी साहित्य के दो प्रतिष्ठित विद्वानों, प्रो गंगा प्रसाद विमल (कवि, कथा लेखक और आलोचक) और श्री भानु भारती (प्रसिद्ध नाटक लेखक और निर्देशक) पर उनके जीवन से सम्बन्धित वृत्तचित्रों को पूरा किया। आप कई प्रतिष्ठित संस्थानों के सदस्य हैं, जिनमें से कुछ प्रमुख हैं, सदस्य अकादमिक परिषद, लाल बहादुर शास्त्री राष्ट्रीय प्रशासन अकादमी, मसूरी, उत्तराखंड, सदस्य अकादमिक परिषद, जवाहरलाल नेहरू विश्वविद्यालय, सदस्य, बोर्ड ऑफ स्टडीज, हिंदी विभाग, जामिया मिल्लिया इस्लामिया, सदस्य, भारतीय सांस्कृतिक संबंध परिषद”, नई दिल्ली द्वारा हिंदी अध्यापकों के चयन के लिए गठित चयन समिति में सदस्य के रूप में, मुख्य संपादक, “अनघ” हिंदी भाषा साहित्य और संस्कृति का एक अंतर्राष्ट्रीय जर्नल, सेंटर फॉर पब्लिक हेल्थ एंड फूड सेटी द्वारा प्रकाशित, जसोला, सदस्य, संपादक बोर्ड, “राजनिति टाइम्स”, शशिकांत दुबे, नई दिल्ली, सदस्य “पाठ्यक्रम निर्माण समिति”, हिंदी विभाग, दिल्ली विश्वविद्यालय, सदस्य, बोर्ड ऑफ एडिटर्स, “शोध हस्तक्षेप” सोसाइटी फॉर एजुकेशनल एम्पावरमेंट, वाराणसी द्वारा प्रकाशित लिंगुअल एंड मल्टीडिसिप्लिनरी

रिसर्च जर्नल और सदस्य, स्कूल बोर्ड, बाबासाहेब भीमराव अंबेडकर विश्वविद्यालय, लखनऊ। प्रो. सुधीर प्रताप सिंह के पास कई प्रशासनिक जिम्मेदारियां हैं, जिनमें कुछ प्रमुख हैं, डीन ऑफ स्टूडेंट्स (वेलफेयर), जेएनयू, वार्डन चंद्रभागा हॉस्टल, सुरक्षा सलाहकार समिति आदि।

Dr. Deep Narayan Singh

Yashasvi Samman

He was born in village & post-Tajopur, District Mau, Uttar Pradesh on May 3, 1981. After getting his education up to intermediate in the rural area. He graduated in Bachelor of Veterinary Science and Animal Husbandry (B.V.Sc. & A.H.) from the College of Veterinary Science & Animal Husbandry, ANDUAT of Ayodhya in 2005. Thereafter he earned his M. V. Sc. degree (Livestock Production Management) from College of Veterinary Science & Animal Husbandry, Anand Agricultural University, Anand (Gujarat) in 2007 with Fellowship by ICAR-AICRP and Ph. D (LPM) from College of Veterinary Science & Animal Husbandry, DUVASU, Mathura in 2019 (In-service).



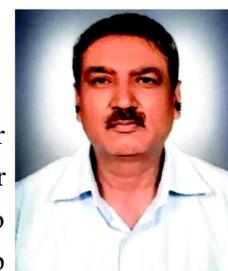
He worked as Veterinary Officer in Gujarat Co-operative Milk Marketing Federation (GCMMF) at Panchmahal district (Gujarat) since 2007-2009, after completion of Master degree. Thereafter joined as Assistant Professor in various private Veterinary Colleges of Rajasthan affiliated with RAJUVAS, Bikaner and one private Veterinary College of Punjab affiliated with GADVASU, Ludhiana (Punjab). In Oct. 2011, cleared Uttar Pradesh Public Service Commission for the post of Veterinary Medical Officer and joined at Veterinary Hospital, Pandah, Sikandarpur, Ballia District of Uttar Pradesh. Thereafter, Dr. Deep Narayan Singh was again selected and joined for the post of Assistant Professor at College of Veterinary Science & Animal Husbandry, DUVASU, Mathura during Dec. 2011 to till date. In the University, he actively involved in UG, PG and PhD Teaching, Extension and Research. Besides teaching, due to having vast experience in livestock management & Treatment,

he took the additional charges of Assistant Farm Manager of University Dairy Farm since last eight years. Dr. Deep Narayan Singh has been involved in various University/UPCAR/RKVY funded research project as PI/Co-PI. Research papers written by Dr. Singh have been published in the leading national and international journals of the world. He has many additional responsibilities viz. Assistant Director Extension, In-charge Security, In-charge Campus Development Officer, In-charge-Equine Unit of LPM, Assistant RTI officer, Member of University Board of Management, DUVASU by the competent University's authority. He also contributed in various confidential works of his university and other university like as examiner, paper setter, evaluator and chairman of various inquiry committees. As Assistant Director Extension, he successfully organized and actively participated in several Kisan Mela, Pashupalan Gosthi, workshop, Radio/TV talk and published various extension bulletins, folders, leaflets, booklets, training manuals etc. He also organized several training programme for scientific livestock keeping and productivity to the farmers/field Veterinary Doctors and Subject Matter Specialist (SMS) under different state/national funded schemes. As an expert acted as member of judging committee several times for judging of the best quality Cow/Bufalloes during Kissan mela and animal fairs. Dr. Singh has been honoured with Teacher Innovation award and certificate of appreciation for sustainable efforts towards promoting joyful and experiential teaching by Sri Aurobindo Society during 2018-19. Dr. Singh has the life membership of various professional societies, member of editorial boards/Reviewer of national/International journals and actively participated for the welfare of society, farmers and highly devoted to his profession.

Dr Sudhir Singh

Yashasvi Samman

He was born in Varanasi, Uttar Pradesh on February 14, 1958. After getting his education up to intermediate from Udai Pratap



Intermediate College, Varanasi, he graduated in Agriculture from Gorakhpur University, Gorakhpur in 1979. Thereafter he obtained his M.Sc. in Food Science and Technology from Govind Ballabh Pant University of Agri and Technology, Pantnagar in 1982 and Ph. D. from Indian Institute of Toxicology Research, Lucknow in 1993.

Dr Singh had joined Agricultural Research Services as Scientist at National Dairy Research Institute, Karnal in April 1986. He served as Scientist and as Senior Scientist till September 2003. He also worked as Associate Professor & Head, Department of Dairy Technology, College of Dairy Science, Udaipur for 6 months during 1997. He was transferred from NDRI, Karnal to Indian Institute of Vegetable Research, Varanasi as Senior Scientist in October 2003 and served as Principal Scientist till February 2020.

Dr Singh has developed antioxidant rich osmo-air dried vegetables with low cost drying technology. He has also carried out molecular characterization of 24 nisin producing isolates of *Lactococcus lactis sub sp. lactis*. Their accession numbers were obtained from National Agriculturally Important Microbial Culture Collection. Dr Singh also worked on easy-to-cook leafy vegetables with long shelf life. Many convenience ready-to-eat products such as protein rich instant vegetable soup mixes, *moringa* soup mixes, instant bottle gourd *kheer* mix and protein rich ready-to-reconstitute *moringa*-jaljeera drink mixes with good consumer acceptability. He was involved in many externally funded research projects as PI and had guided more than 50 M. Sc and Ph D students at NDRI, Karnal and IIVR, Varanasi. He had published 4 books, more than 100 research papers, 50 popular articles and 10 book chapters. Dr Singh has worked at Cornell University, USA for 6 months under FAO fellowship. Dr Sudhir Singh has been granted 4 patents from Indian Patent Office, Kolkata. He is also recipient of ICAR-Hari Om Ashram Trust Award for Biennium 2016-17 under Natural Resource Management and Agricultural Engineering. Dr Singh is also recipient of Prof J S Bains

Life Time Achievement Award, 2015 and Dr J S Pruthi Award, 2010 from Association of Food Scientists and Technologists, CFTRI, Mysuru. Dr Singh is also Fellow of International Society of Noni Sciences, Chennai and Indian Society of Vegetable Sciences, Varanasi.

Dr. Umesh Singh *Yashasvi Samman*



He was born on March 06, 1965 in village Bagali, District Mau, Uttar Pradesh. After getting his education up to intermediate in the rural areas, he graduated in agriculture and post graduated in Animal Breeding from Acharya Narendra Dev University of Agriculture & Technology, Kumarganj, Ayodhya in 1986 and 1989, respectively. Thereafter he earned his Ph. D. in Animal Breeding from HPKV, Palampur in 1993.

Dr Singh started his career as Assistant Professor of Animal Genetics & Breeding at College of Veterinary Science and Animal Husbandry Anjora, Durg of Indira Gandhi Agricultural University, Raipur in April 1994. In July 2000, he joined as Senior Scientist (AG&B) at NTRS Garsa, Kullu of ICAR-CSWRI, Avikanagar and subsequently got transferred to Project Directorate on Cattle, Meerut in March 2003. He served as Senior Scientist PDC, Meerut and got selected as Principal Scientist in year 2009 and thereafter promoted under CAS as Principal Scientist in the year 2008 also. He is working as In-charge, AICRP on Cattle since 2013 and also designated as Head, Division of Cattle Genetics & Breeding, ICAR-Central Institute for Research on Cattle, Meerut Cantt Uttar Pradesh in the December 2017.

Besides teaching several Animal Genetics and Breeding courses to Bachelor and Master's degree students of Veterinary Science, Dr. Singh has also involved in handling of 12 Institutional/external research projects on breeding/molecular aspects of cattle, rabbit and poultry. In addition

he has also handled NATP and NAIP Projects. He has also involved in the genetic improvement of important Indigenous cattle Breeds viz., Gir, Kankrej and Sahiwal in collaboration of SAU/SVU/NGOs/ Gaushala/Farmers and made notable contribution in improving the milk productivity of cattle. He motivated the farmers for rearing the Indigenous cattle breeds for quality milk production. Dairy farms established with his consultancy are maintained with better profitability. Dr. Singh has published 128 research articles in different reputed national and international journals. He contributed as author/co-author of 10 books, 22 book chapters, 2 Monograph and 5 bulletins. He has also organized 03 Seminars/Symposium/Conferences and 05 training programmes for the Mid-Career Scientist /Teachers sponsored by DBT and ICAR. He has guided M. V. Sc. and Ph. D. students of Animal Genetics & Breeding. He has filed 5 patents and got Trade Mark for FRIESWAL™ also.

Dr. Singh is a Fellow of the International Society for NONI Science. He has been honoured with Reviewer Excellence Award, award for Excellence in Research in addition to many best oral and poster presentation awards.

Dr. Abha Singh *Yashasvi Samman*

She was born in village Mirzapur District Allahabad, Uttar Pradesh on 18th April, 1960. After getting her education up to second in the rural area Handia Allahabad, she came to Allahabad city for further studies with her parents. She graduated in B.Sc. Home Economics from Allahabad Agricultural Institute affiliated to the University of Allahabad in 1982. Thereafter she earned the degree of L.T. in Home Science. She secured the I.C.A.R junior research scholarship in 1983 and proceeded for M.Sc. In 1985 she completed her M.Sc. in Home Management



from M, H, College of Home Science affiliated to Rani Durgavati University, Jabalpur M.P and later on Ph. D from Purvanchal University Jaunpur U.P., respectively.

After serving for a brief period of two years in K.V.K. Sultanpur U.P.as Technical Assistant, Home Science Dr Singh joined as Assistant Professor in Department of Home Science of Acharya Narendra Dev University of Agriculture and Technology, Kumarganj, Ayodhya. Ever since, Dr. Singh has been serving the institution under various capacities as Hostel Warden, Sports In-charge Girls, Social Work In-charge .Presently she is working as Head of Department of Family Resource Management and Consumer Science in College of Community Science at A,N.D.U.A.T. Kumarganj, Ayodhya Dr Singh is not only involved in teaching several courses of B,Sc. and M.Sc. students but has a research project in hand approved by R.K.V.Y Utter Pradesh in the capacity of Principal Investigator of the project on Ergonomics.

Dr Singh has conducted several Consumer Awareness Programmes to sensitise the rural mass to check adulteration at home level and raise their voice against such wrong practices. She also developed a small demonstration unit of vermicompost in the College premises to bring awareness among women to develop one in their own houses for the utilization of house waste. She also has keen interest in dry and fresh flower arrangements on which she has given several radio talks and demonstrations to urban ladies and girls

Besides teaching several courses of Community Science to students, Dr. Singh has been involved in research on different aspects of Rural Women Development including (i) the designing a model of Navegrah Vatika as an income generating unit for rural women. Research papers written her have been published in the several journals of the world. She has guided M.Sc students and is likely to start Ph. D in FRMCS. Dr Singh has been awarded several merit certificates for paper presentations in National and Inter National conferences and seminars.

Dr Sanjeev Kumar Singh

Yashasvi Samman

He was born in Aligarh, Uttar Pradesh on October 14, 1975. He graduated from Dr B R Ambedkar University (Formerly Agra University) Agra and M.Sc. (Ag) Genetics and Plant Breeding from Allahabad Agriculture Institute-Deemed University, Allahabad. He did his doctorate in Genetics & Plant breeding from Visva Bharti University, West Bengal in the year 2016.



Dr. Singh joined Indian Council of Agricultural Research (ICAR) services in the year 1997 at ICAR-CRIJAF, Barrackpore (W.B.) and later in May 1998 transferred to NRC on DNA Fingerprinting New Delhi. In the March 2003, he joined ICAR-NBPGR Regional Station Barapani, Meghalaya on transfer, where he served as Technical Officer and Senior Technical Officer up to March 2016. Presently, he is working as Assistant Chief Technical Officer in Division of Genomic Resources, ICAR-National Bureau of Plant Genetic Resources (NBPGR), New Delhi. Dr. Singh developed expertise in the management of plant genetic resources during his 23

year's services. During this tenure, he served 13 years in North-eastern (NE) region of India where he was engaged in exploration, characterization and conservation of plant genetic resources of remote and un-explored parts of NE region of India. During this period, he conducted twelve (12) exploration trips and collected around 1800 valuable crop germplasm including some important land races, and deposited in National Gene Bank of NBPGR, New Delhi. He has also characterized more than 4000 different germplasm of various agricultural crops and identified promising accessions. He has contributed significantly towards selection from indigenous maize germplasm collection of NEH region and registered a 'multi-cob' maize genotype (Registration No.-INGR13054) in 2013. From 2016 onwards, while serving at Division of Genomic Resources, ICAR-NBPGR, New Delhi he is associated with three projects which deals with DNA Fingerprinting services and genomic resource conservation.

Dr Singh has published 35 research papers in National and International journals; 20 seminar symposia papers; 15 popular articles and delivered 05 talks. He has been elected as Zonal Councillor for Indian Society of Plant Genetic Resources (ISPGR) for 2019-2021 duration.

RAASA Publications-2020

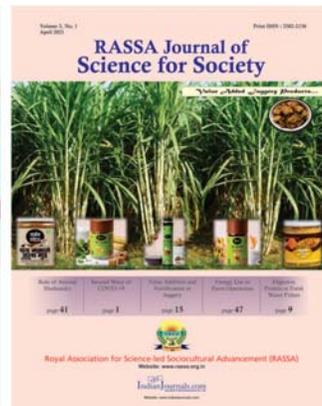
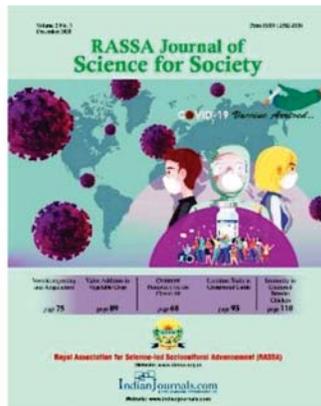
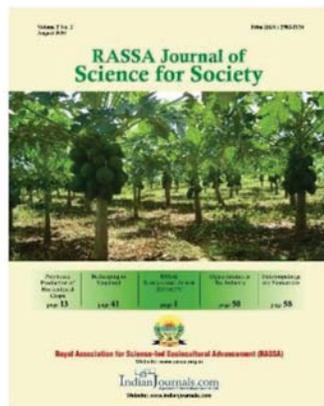
RAASA Journal of Science for Society

The 'RAASA Journal of Science for Society' publish high-quality peer-reviewed papers spanning topics and issues related to all the disciplines of Sciences and Humanities, with particular emphasis on the translational impact of the research on the Society. Three issues of RAASA journal were published of Volume 2 during the year 2020. A total of 31 articles were published during the year including 02 Feature Articles, 8 Review Papers, 6 Mini Reviews and 14 Research Articles covering all aspects of Social Sciences. The theme of articles covered rural sustainability, engineering and agronomic interventions, bee keeping, tea industry, combine harvesters, entomopathogenic nematodes, enhancing & productivity of several crops, scope of polyhouses for horticultural crops, irrigation water use, engineering Issues of food security, current perspective of Covid 19, value addition in vegetable crops, land use paradigm shifts, lactation traits in crossbreed cattle and production performance in coloured breeder chickens, battery operated offset

rotary cutter, economic evaluation of solar sprayer etc. The details of these publication are available on RAASA website at www.rassa.org.in.

Rajarshi Sandesh

Two issues of 'Rajarshi Sandesh', a hindi magazine, were also published in 2020 (June & December) by the Royal Association for Science-led Socio-cultural Advancement Society. Both the issue covered topics and issues related to all the disciplines of sciences and humanities in addition to biography of great personalities, farmer's success stories, improved crop production technologies, science-led socio-cultural activities and key achievements of RAASA members. The main interesting coverage was on role of e -technology in rural development, fisheries cultivation, electrically operated new agro-cultivation machines, mushroom cultivation, management of trash burning, vegetable cultivation in polyhouses, recycling of dry cane leaves and integrated management of pests of bhindi.



8

Member's Support for RASSA Activities

8.1 Life Members Addition

- FM 1, FM 2, FM 3, FM 6, FM 8, FM 10, FM 12, FM 13, FM 14, FM 16, FM 19, FM 20, FM 23, FM 24, FM 33, FM 39, FM 40, FM 43, FM 46, FM 47, FM 48, FM 50, FM 58, FM 60, FM 61, FM 62, FM 73, FM 80, FM 86, FM 89, FM 96, FM 112, FM 113, FM 124, FM 133, FM 140, FM 141, FM 142, FM 146, FM 149, LM 8, LM 11, LM 20, LM 23, LM 30, LM 34, LM 39, LM 48, LM 50, LM 52, LM 53, LM 80, LM 92, LM 100, LM 102, LM 107, LM 123, LM 133, LM 138, LM 153

8.2 Farmer training

- FM 19, FM 20, FM 91, FM 67, FM 44, FM 119

8.3 Kisan Gosthi

- Delhi team (FM 42, FM 40, FM 14, FM36, FM 6, FM 57, FM 73, FM 151, FM 112, FM 47) Varanasi team (FM 53, FM 51, FM 33, FM 85, FM 1), Lucknow team (FM 146, FM 46, FM 125, FM 39, LM 125, LM 84), FM 12, FM 1, LM 103

8.4 Conference and Foundation Day

- FM 133, FM 146, FM 39, FM 46, LM 45, FM 149, FM 71 – **BBAU, Lucknow 2017**
- LM 104, LM 136, FM 14, LM 68, FM 62, FM 133, FM 40, FM 1, FM 35, FM 19, FM 99, LM 13, FM 6, FM 112 – **JNU, Delhi 2018**
- FM 140, FM 89, FM 29, FM 112- **SKUAST-J & Jammu 2018**
- LM 176, LM 133, FM 33, LM 22, FM 139, LM 30, LM 28, FM 127, FM 51, LM 192, LM 193, FM 85,

FM 53, FM 24, FM 52, FM 152, LM 31, FM 90, FM 71 – **BHU and UP College 2019**

- FM 133, LM 52, FM 8, FM 19 - **Webinar 2020**
- LM 68, FM 133, FM 91, FM 14, FM 1, FM 6, LM 13,- **Noida 2020**

8.5 Sponsorship

- FM 1, FM 112, FM 8, FM 40, FM 133, FM 140, LM 45, FM 152, FM 46, FM 146, FM 33, LM 22, LM 68, FM 14, FM 19, FM 42, LM 133, LM 58, LM 152, FM 100, FM 84, FM 118, FM 150, FM 52

8.6 RASSA Journal of Science for Society

- FM 7, FM 62, FM 138, FM 14, FM 42, FM 1,

8.7 Rajarshi Sandesh

- FM 8, LM 2, FM 19, FM 47, FM 1

8.8 Annual Report

- FM 14, FM 8, FM 62, FM 1, FM 138, FM 19, FM 47

8.9 Audit & Head Office

- FM 41

8.10 Website Help

- FM 8, FM 1, FM 62, FM 138 and FM 14

8.11 Medical Help

- LM 78

8.12 Social help

- FM 21, FM 84

8.13 Additional financial support by RASSA Members for various activities/ events

RASSA Corpus Fund for Social/ Education Assistance from 2017 to date

Membership Number	Year	Membership Number	Year
FM 062	2017-18	PM and CM Kerala Relief Fund	2018-19
FM 02		FM 14	
LM 038		FM 80	
FM 012		FM 11	
FM 133		FM 32	
FM 019		FM 40	
LM 102		FM 73	
FM 011		FM 60	
FM 026		FM 62	
FM 014		FM 8	
FM 100		LM 92	
LM 089		FM 67	
FM 075		FM 65	
FM 001		FM 1	
FM 146		FM 16	
FM 008		FM 6	
FM 003		BHU Conference and Foundation Day	
FM 145	FM 86		
LM 99	LM 133		
FM 118	LM 23		
LM 43	LM 102		
FM 40	FM 17		
LM 13	LM 107		
FM 014	FM 80		
FM 011	FM 11		
FM 096	FM 73		
FM 006	FM 61		
LM 211	FM 61		
	FM 13		
	FM 42		
	FM 32		
	LM 39		
	FM 33		
	FM 46		
	FM 102		
	LM 68		
	FM 24		
	FM 14		
	FM 51		

9

RAASA Income and Expenditure

ROYAL ASSOCIATION FOR SCIENCE-LED SOCIO CULTURAL ADVANCEMENT

BALANCE SHEET AS AT 31ST MARCH 2020

Liabilities	Sch. No.	Amount as on 31 March 2020 (in INR)	Assets	Sch. No.	Amount as on 31 March 2020 (in INR)
Founder Membership Fund	1	4,00,000	Fixed Assets		
Life Membership Fund	2	5,31,500	Infrastructure		-
Accumulated Surplus/Deficit	3	(30,992)	Current Assets		
SJM Life Members	4	1,19,000	TDS		15,319
Royal Kisan Membership	5	3,800	Cash and Bank Balance		
Audit Fees Payable		5,500	Cash		4,467
Other Liabilities	6	20,437	Fixed Deposit		7,74,932
			Bank		2,54,527
Total		10,49,245	Total		10,49,245

Notes to Accounts and Accounting Policies

(0.740)

As per our report of even date attached

For R N B P & Company
Chartered Accountants



(Rakesh Kumar)
Partner
Membership no. 519145

Kanchan Lata Singh
Secretary General

Rchingh
Treasurer

Arvind
President

UDIN No. : 20519145AAAABF7291

Place: New Delhi

Date: 15/12/2020

Secretary General / Treasurer / President
Royal Association for Science-led Socio-cultural Advancement
(RAASA), 28 142, West Patel Nager, New Delhi-110003

List of Participants in Foundation Day and General Body Meeting on 01.11.2020

Physical Presence	Online Presence
Dr K K Singh	Dr Punjab Singh
Dr D S Sengar	Dr Kirti Singh
Dr S K Singh	Dr R B Singh
Dr G P Rao	Dr A K Singh
Er Madhvendra Singh	Dr N K Singh
Dr Gaurav Pratap Singh	Dr D K Vatsa
Dr Kanhaiya Singh	Dr Janardan Singh
Dr Jai Prakash	Sri Jairam Singh
Dr Sanjeev Kumar Singh	Dr R K Singh, KVK Khargaun
Dr Amit Singh Shekhawat	Dr Rudra Pratap Singh
Dr Nityanand Singh	Dr Awani Kumar Singh
Dr Dhiraj Kumar Singh	Dr Rajiv Kumar Singh
Dr S P Singh	Dr N S Raghuvanshi
Er A K Singh, President	Dr Jaswant Singh
	Dr N J Thakor
	Dr D N Singh
	Dr Poonam Parihar
	Dr Sudhir Singh
	Dr Umesh Singh
	Dr Pavnesh Kumar
	Dr Amit Singh
	Dr Vinay Kumar Singh
	Dr B S Deora
	Dr Rana D P Singh
	Dr Ranjan Kumar Singh
	Dr N K Shahi
	Dr S P Singh, Bhopal
	Smt Kanchan Lata Singh
	Dr Ramendra Singh
	Dr Suman Singh
	Dr Shalesh Kumar Singh
	Dr Arun Kumar Singh
	Dr Anuj Pratap Singh
	Dr Ranjan Kumar Singh
	Dr P K Bishen



RASSA : At a Glance

Royal Association for Science-led Socio-cultural Advancement (RASSA)

National Society
Registered under Society Registration Act XXI of 1860
(Regn. No: Society/West/2016/8902125)

Registered Office
28/142, West Patel Nagar, New Delhi-110008
Email: royal.association2016@gmail.com
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Preamble

Innovations of Science do not reach the needy people timely. Science-led interventions carry potential for development of people. Efforts from all responsible organizations and citizens including Government is needed to ensure that the potential of scientific innovations are realized for the benefit of the masses, to improve their income and living conditions.

A group of like-minded Scientists/ Technocrats/ Business persons and other luminaries joined together to create this platform, for helping the needy people to improve the status of society, in the name of 'Royal Association for Science-led Socio-cultural Advancement (RASSA)' to attain noble goals for overall advancement of the people in a sustainable manner, protecting natural resources and eco-systems.

Vision

To create a strong and coherent community sensitive to the social, cultural & educational needs to serve the society especially the resource poor people by adopting science-led approaches.

Mission

To engage like-minded intellectuals in serving the needy people of the society through science-led interventions.

Objectives

- 1) To create a platform of like minded people for overall sustainable advancement of the society.
- 2) To promote educational and economic well-being of community in changing social dynamics by formulating the plans and creating interest for entrepreneurial activities through skill development.
- 3) To mentor and provide economic support to bright young individuals from the unprivileged section of the society.
- 4) To provide opportunity and help to business professionals to setup and run their businesses in emerging fields.

Major Activities

- i. To promote social cohesion among the members for their social causes like religious, cultural activities, marriage, education, job, etc. for enhancing bonding and solidarity
- ii. To devise strategic plan for help to needy people in education, job, entrepreneurship etc.
- iii. To explore and nourish social and cultural heritage.
- iv. To empower the farming community through knowledge acquisition and technology dissemination.
- v. To organize health camps for rural masses, creating awareness and facilitating access to rural cleanliness, sanitation and hygiene
- vi. To take action for conservation, development and management of natural resources for sustainable eco- friendly development.
- vii. To provide consultancy and advisory services to the society by the expert professionals.
- viii. To organise conferences, meet, fare, kisan gosthi, etc., to update community on science-led techniques.
- ix. To propagate vision & mission of the society through sharing of information and publishing literature.
- x. To formulate strategy for developing corpus fund to carry out the activities.
- xi. To establish and foster cooperation with other like minded societies in India and abroad working with similar objectives.

For more information and to become member please write to:

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