

SAC Annual Report 2017



SAARC Agriculture Centre

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SAC Annual Report 2017



SAARC Agriculture Centre

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Abbreviations

APAARI	Asia-Pacific Association of Agricultural Research Institutes
AV	Audio-Visual
AVRDC	Asian Vegetable Research and Development Center
BARC	Bangladesh Agricultural Research Council
BARI	Bangladesh Agricultural Research Institute
BRRI	Bangladesh Rice Research Institute
BTV	Bangladesh Television
CIMMYT	International Maize and Wheat Improvement Center
CIRDAP	Centre on Integrated Rural Development for Asia and the Pacific
CSRTI	Central Sericultural Research & Training Institute
CVOs	Chief Veterinary Officers
DAE	Department of Agricultural Extension
DAM	Department of Agricultural Marketing
FAO	Food and Agriculture Organization
FSRD	Farming Systems Research and Development
GB	Governing Board
GFAR	Global Forum for Agricultural Research
HORDI	Horticultural Research and Development Institute
HPAI	Highly Pathogenic Avian Influenza
HS	Haemorrhagic Septicaemia
ICAR	Indian Council for Agricultural Research
ICIMOD	International Centre for Integrated Mountain Development
ICRISAT	International Crops Research Institute for the Semi-Arid Tropics
ICT	Information and Communication Technology
IFPRI	International Food Policy Research Institute
IGCG	Inter-Governmental Core Group
IIVR	Indian Institute of Vegetable Research
ILRI	International Livestock Research Institute
IRRI	International Rice Research Institute
ISC	International Sericulture Commission
MoAF	Ministry of Agriculture and Forests
NAES	National Agricultural Extension Systems



NARC	National Agricultural Research Centre
NARC	Nepal Agricultural Research Council
NARIS	National Agricultural Research Information System
NARS	National Agricultural Research System
NATP	National Agricultural Technology Project
NBAGR	National Bureau of Plant Genetic Resources
NDRI	National Dairy Research Institute
NEA	National Extension Agency
NGO	Non-Governmental Organization
NRM	Natural Resource Management
PARC	Pakistan Agricultural Research Council
RNR	Renewable Natural Resource
SAARC	South Asian Association for Regional Cooperation
SAC	SAARC Agriculture Centre
SAU	Sher- e- Bangla Agricultural University
SCPPC	Seed Certification and Plant Protection Centre
SDF	SAARC Development Fund
SDG	Sustainable Development Goal
SJA	SAARC Journal of Agriculture
SMRC	SAARC Meteorological Research Centre
SSF	SAARC Seed Forum
STRASA	Stress tolerant rice for poor farmers in Africa and South Asia
SVATNet	SAARC Vegetable Adaptive Trial Network
T&V	Training and Visit
TAD	Trans-boundary Animal Disease
TCARD	Technical Committee on Agriculture and Rural Development



SAARC Agriculture Centre (SAC) has been promoting agricultural research, policy input, technology dissemination, need based programs, capacity development for sustainable agriculture development in SAARC Member Countries.

With the cooperation from the experts of the SAARC region and the guidance of the Governing Board members, TCARD, CVOs and other higher forums of SAARC and the SAARC Secretariat, the Centre is striving towards achieving its goal and wider objectives.

Message from the Director

This year's annual report provides many examples of our commitment to work in partnership and contribute to healthier lives and more resilient livelihood through greater agricultural diversify. In the report, we provide highlights of our need based programs organized in 2017 within the context of agricultural research and sustainable development, capacity enhancement, technology transfer and policy input in the region.

The SAARC Agriculture Centre (SAC) is working with objectives, strengthen research, technology dissemination, policy input, capacity development, regional studies, and information dissemination that go forward to open up global, regional, international and national partnerships, collaboration and exchange experience.

The 14 (fourteen) of the 17 (seventeen) goals of the SDGs have direct or indirect linkages with agricultural sector. To attain the SDGs, agricultural research & development with technology transfer identified as key component by the region. It is hoped that SAC may contribute to address the SDGs through providing knowledge and skill sharing in the region. The SAC with the support of regional experts of leading research institutes conducted need based program for Member Country research and extension personnel as well as NGOs and private sector staffs. To promote wider participation of the Member Countries, the Centre also facilitated group exposure visits for senior officials from SAARC Member Countries. After successfully completion of need base program, I am pleased to share that a total of 17 publications has been published from SAC this year. I do also confident enough that this publication will be useful in promoting collaboration among the Member Countries toward achieving the SDGs.

Our focus has always been on training the trainers, who in turn are expected to train their counterparts in their respective countries. To promote agricultural research in the region the centre has been offering SAC PhD Scholarship since 2017.

I would like to acknowledge to Mr. Md. Shahjahan Ali, Seed Technologist and Seed Regulation Specialist for his editing and cordial cooperation during preparation of Annual Report.

Happy reading!

Dr. S M Bokhtiar
Director, SAC

Salient Features of 2017 Programs

Activities of the SAARC Agriculture Centre (SAC) in 2017 ensured its continuing success and growing interest in the agricultural research and extension as well as sustainable development goals in agriculture in the SAARC Member Countries. The common goals for agriculture in the region are achieved and challenges are met through networking among the agricultural scientists, technologists, researchers, professionals, academia, extension workers and policy makers of the South Asian Region. The Annual Report provides a brief accounts on the happenings of the Centre from January to December 2016 on Crops, Livestock, Fisheries, Natural Resource Management, Agro-Forestry, Sericulture, Horticulture and allied disciplines.

The SAC has created a pathway of journey during 2017 as a regional platform for facilitating agriculture research and development. Beside, the regular activities of the Centre, the few initiatives were taken on thrust areas of agriculture like , agro forestry, conservation agriculture, backyard poultry production, sustainable aquaculture development, integrated plant nutrient management system, market access for agriculture, microbial pesticides and an adaptive trial on buffalo breed development.

The Centre also took initiatives for capacity development on SAARC food bank information system, SAARC seed bank, veterinary epidemiology, health management of dairy buffaloes, climate smart agriculture, value chain development and enterprise development.

The important programs and salient features of activities for the year 2017 are depicted below -

- The 11th Governing Board (GB) Meeting of SAC;
- The 33rd SAARC Charter Day Celebration on 10 December 2017 and Exhibition cum Regional Seminar on Agricultural Mechanization;
- SAC PhD Scholarship Program;
- Strengthening partnership & collaboration with different organizations;
- Capacity development;
- Information/technology dissemination;
- Seminars/Guest Lectures on agricultural research and innovation;
- Visit of the renowned personalities;
- New arrivals/publications on regular and need based programs and sharing among SAARC member countries.

The 11th Governing Board (GB) Meeting was held on 26-27 September 2017. The GB verified and discussed on the achievements and progress of the centre in 2017, and recommended the new programs for 2018.



To continue the dissemination of information on successful agricultural technologies, SAC collating, synthesis, compiled, edited and printed several publications for wider distribution in the South Asian Regions as well as all over world for facilitating agriculture researchers, students and policy makers. To mention a few, SAARC Journal of Agriculture and SAARC AgriNews are important.

The Centre also working on the following regular programs.

The Centre continues to diversify its program primarily to ensure inclusion of factors influencing agriculture production and also to promote holistic agricultural development policies.

To attend the diversified program, SAC is gradually increasing its human resource capacity by inducting new professionals and promoting the existing professionals.

Regular Programms

- SAARC Journal of Agriculture (half-yearly)
(<http://www.banglajol.info/index.nhp/SJA/Index>)
- SAARC AgriNews (Quarterly)
- SAC Annual Report
- Bulletins
- Statistical Data Book
- SAARC Agriculture Outlook
- Production, Collection, Dubbing and Dissemination of Videos on Agro-technology
- Providing Digital Literature and Library Services
- Organizing Seminar, Workshop, etc.
- Exchange visit, Exposure visit, Partial Support of Graduate Research

Being one of the first SAARC Regional Centres; SAC has always remained concentrated with the Member Countries and the regional agricultural issues. As agricultural issues are becoming globalized and influenced by external factors, research and development focuses need to expand. In an effort to share our experiences with others and to take benefits of other organizations engaged in agriculture research and development related programs in the region, SAC tries to link with relevant institutions. To strengthen the partnership and collaboration, SAC tries to link with International Food Policy Research Institute (IFPRI), Postgraduate Institute of Agriculture, University of Peradeniya (UoP-PGIA), Sri Lanka, International Livestock Research Institute (ILRI). A close link is being developed with Asia-Pacific Network for Global Change Research (APN).

The Centre is working with ICRAF, ICARDA, IFPRI, CABI and CIRDAP for agriculture and rural development as well as national institutes of the SAARC Member Countries with their financial involvement.

With the success and experience gained from 2017 activities, the 11th Meeting of the SAC-Governing Board bestowed the centre with challenges to become professional and come at par with any international institution. In the spirit of enhancing SAC's relevance and eminence, the meeting advocated the need to collaborate with regional and international institutions in conducting regional agricultural research and development, while taking the member country on board.

The Centre is now working on the important programs on adaptive trials/research and trying to develop networking among scientists. These on-going adaptive trials/researches are fulfilling the wider objectives of the Centre.

SAARC Agriculture Centre (SAC) at a glance

Genesis

The Heads of the States or Governments established the South Asian Association for Regional Cooperation (SAARC) on 8 December 1985. Seven South Asian Nations, namely Bangladesh, Bhutan, India, The Maldives, Nepal, Pakistan and Sri Lanka were the founder members of the Regional Association. Later Afghanistan became the eighth member country in 2007.

SAARC Agriculture Centre (hereinafter referred to as SAC) renamed in April 2007, earlier it was SAARC Agricultural Information Centre (SAIC) is the first Regional Centre established by the SAARC. The Centre started functioning in 1988 with a mandate for information management, primarily in the field of agriculture and allied disciplines.

With the passage of time, the Centre braced up broader challenges to make regional cooperation more responsive to the needs of the stakeholders and farming communities as South Asia heads for a new order of agricultural transformation. The SAC thus has been entrusted with mandate for agricultural research and development, policy planning, and knowledge management.

Goal

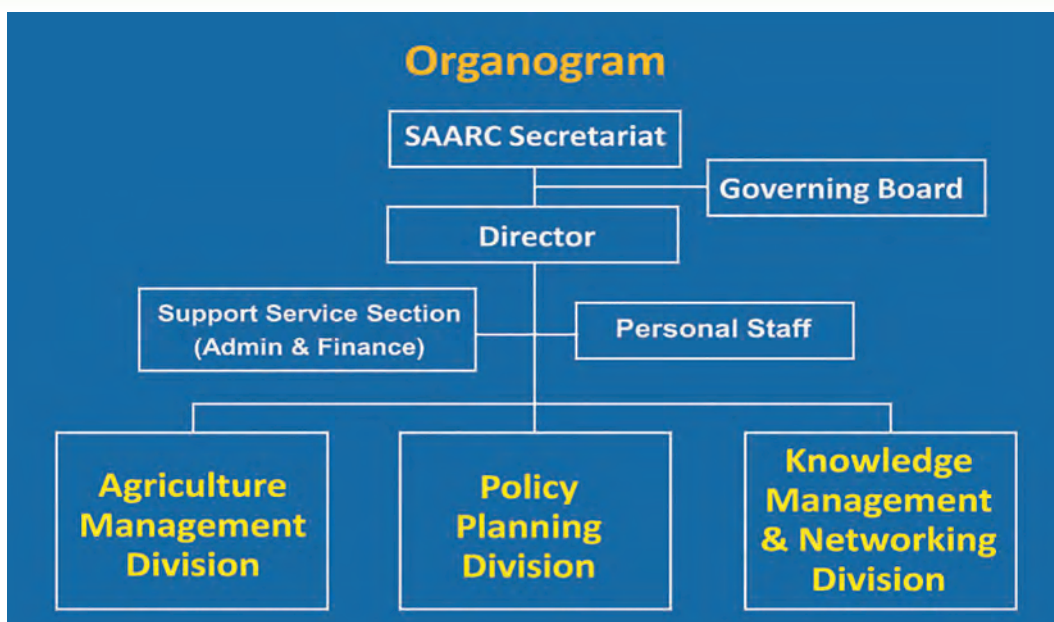
Promotion of Agricultural Research and Development (R&D) as well as technology dissemination initiatives for sustainable agricultural development and poverty alleviation in the region

Objectives

1. To strengthen agricultural R&D and accelerate technology transfer through establishing regional networks on agricultural and allied disciplines, particularly among agricultural research and extension institutes, professionals, policy planners and stakeholders.
2. To provide inputs for developing regional policies, strategies, projects, primarily through developing networks in crop, livestock and fisheries sectors; and for efficient management of soil, water and other natural resources.
3. To promote new and innovative techniques and systems in good agricultural practices (GAP), good post-harvest practices (GPHP) and food processing.
4. To facilitate collaborative studies, inter alia, on agricultural marketing and distribution systems, harmonization of agricultural related standards, promotion of agricultural trade, food security, risks and disaster management in agriculture.
5. To facilitate and undertake collaborative capacity building programs in agriculture and allied sectors with focus on skill development and research on frontier areas.
6. To collate and disseminate information for agricultural advancement in the region.

Personnel

The Centre is governed with regionally recruited Professionals and General Services Staff (GSS) from the host country. The personnel under the SAC performs program planning and implementation.



Funding

The Centre is supported directly by the Member Countries through their annual financial contributions based on the annual budget. In implementing the program, the Centre aims to maintain the balance of expenditure between institutional cost and program cost. The program and institutional costs are shared by the Member Countries according to the SAARC proportion formula.

The Government of Bangladesh provides the capital cost including infrastructure.

Program Development

The Centre institutionalizes "Participatory need-based Program building through consultations". The process involves participation of stakeholders at country levels as well as synthesis and vetting at the experts level for program development. The SAARC Technical Committee on Agriculture and Rural Development (TCARD) also provides broad guidelines of programs. The proposals are reviewed in the Governing Board (GB) Meeting for further direction.

The annual program proposals recommended by the Governing Board then further are reviewed by the SAARC programming Committee and subsequently approved by the Standing Committee. The Council of Ministers of the Member Countries gives concurrence prior to the convening of the SAARC Summit.

Major Activities

The SAC has been providing policy inputs to the SAARC higher authorities for consideration particularly at the ministerial level meeting on agriculture. Promoting outreach Programs through www.sac.org.bd to provide timely, relevant and universal access to information and knowledge resources to all agricultural practitioners of Member Countries.

- Production of regular publication (newsletters, bulletins, booklet, journal, etc.);
- Production of technical publications from priority programmes (directories, statistical bulletins, bibliographies, databases, union catalogue, report, workshop proceedings, etc.);
- Audio-visual media production and reproduction;
- Providing inputs for developing regional policies and strategies;
- Providing and automated library services and on-line services;
- Hosting of workshops, seminars, symposium consultation and human resources development programs and carrying out in-house research and publications on thrust areas of agriculture;
- Establishing institutional linkages with relevant institutions;
- Undertaking activities leading to exchange of the best practices for adaptation and/or absorption; time-bound short and medium terms projects and programmes; and enhancing capacities of the agricultural communities of the SAARC Countries.

Challenges

- Nearly 50% of 1.89 billion people in the region live below poverty line, predominant in rural areas. On one hand, population is rising and on the other, the cultivated land area is decreasing;
- Food Security at the back drop of climate change;
- Ensuring safe food against agro – chemicals;
- Integration and application of new science in various products, processes and services for strengthening food, health and livelihood systems;
- Smart extension work to reduce yield gaps between the research fields and the farmer's fields with a blend of traditional knowledge and wisdom with modern technologies;
- Skill enhancement of agro – entrepreneurship;
- Dissemination of new and sustainable technology using modern information and communication technologies (ICT) to accelerate the technology transfer process;
- Minimizing postharvest losses; improvement in agro-processing; value addition; efficient utilization of crop residues and bi-products;
- Research emphasis on sustainable management of natural resources;
- Forging Public-Private-Partnership (PPP) in agricultural technology;
- Ensuring fair market price of agricultural products/produces at producers' level;
- Ensuring agricultural product quality at different steps of value chain and supply chain development.

Services

The Centre's publications, services and products are aimed to enhance the performances of scientists, extension service providers and technologists through support in research and development in agriculture and provide inputs for developing regional policies, strategies and programs.

SAC in Collaboration with FAO Organized SAARC Agriculture Trade Forum Workshop

SAARC Agriculture Centre (SAC) in collaboration with Food and Agricultural Organization (FAO) of the United Nations organized a 2-day workshop on 22-23 May, 2017 in Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh. Out of 40 participants, a total of 12 participants from seven member countries (Afghanistan, Bangladesh, Bhutan, India, Nepal, Pakistan and Sri Lanka) were attended in the program. The Forum reviewed and discussed the agricultural trade issues in the SAARC Region, made recommendations. The objectives of the program were as follows:

1. Review and discuss the national policy studies on intra-SAARC agricultural trade with the aim of:
 - a. achieving improved understanding of key issues in agricultural trade amongst SAARC Member Countries including critical knowledge gaps.
 - b. making suggestions for future work to close those gaps and for better management of agricultural trade amongst the SAARC countries.
2. Agree upon a strategy for enhancing the capacity of the SAARC Agriculture Centre (SAC) and SAARC Secretariat in agricultural trade policy development and regional trade facilitation in the context of SAFTA.
3. Set up the nucleus of a network of policy researchers on intra-SAARC agricultural trade.
4. Agree upon a plan for finalization of the national policy studies and preparation of the policy studies volume.

The opening ceremony of the SAARC Agriculture Trade Forum workshop was held on 22 May, 2017. Mr. Mohammad Nazmul Islam, Additional Secretary, Ministry of Agriculture, Government of Bangladesh graced the inaugural session as Chief Guest and Mr. Tareq Ahmad, Director General of SAARC/BIMSTEC, Ministry of Foreign Affairs, Bangladesh was the Guest of Honor. Dr. Mohammad Jalal Uddin, Executive Chairman, BARC presided over the inaugural function. Mr. M J H Javed, Director (Agriculture & Rural Development Division), SAARC Secretariat, Kathmandu, Nepal represented the SAARC Secretary General. Dr. S. M. Bokhtiar, Director, SAARC Agriculture Centre delivered the welcome address.



Director, SAC delivering welcome remarks

Closing session



Mr. Shubhashish Bose, Secretary in Charge, Ministry of Commerce addressing the closing session.



SAARC Trade Forum participants

Recommendations:

- FAO has generously agreed to extend financial and technical support to organize dialogue/meeting/conference on SAARC Agricultural Trade, involving all the focal points of agricultural trade of SAARC Member Countries, SAFTA Committee of Experts and other regional stakeholders;
- Establishment of permanent SAARC Agriculture Trade Forum;
- Introduction of trade related activities on SAARC Seed Bank, SAARC Seed Forum, SAARC Food Bank and SAARC Food Bank Information System and facilitation of agricultural trade in SAARC member countries through SAARC Agriculture Trade Forum in collaboration with national, regional and international partners.

Special Session of the SAARC Technical Committee on Agriculture and Rural Development (TCARD)

A Special Session of the TCARD was organized in Dhaka on 27 November 2017 with the following objectives:

- To review the SAARC Food and Nutrition Security Framework (SFNSF);
- To review the Strategic Plan of Action (SPA) drafted under the project and four projects outline for implementing the SFNSF and SPA.



Special TCARD Meeting on 27 November 2017

The session was attended by the TCARD Members and Mission representatives of all the Member Countries except Afghanistan, Maldives and Pakistan. The project consultants, Food and Agriculture Organization of the United Nations Regional Office for Asia and the Pacific (FAO-RAP) representatives and officials of SAARC Agriculture Centre (SAC) were present.

The inaugural session was attended by Mr. Mohammad Nazmul Islam, Additional Secretary, Ministry of Agriculture of the Government of Bangladesh as the Chief Guest and

Dr. Paresh Chandra Golder, Member Director (Planning & Evaluation Division), BARC as Special Guest. The inaugural session was also attended by Ms. Israt Ara, Director (SAARC & BIMSTEC) of the Ministry of Foreign Affairs of Bangladesh. Dr. S. M. Bokhtiar, Director, SAC delivered welcome address. The meeting was also addressed by Dr. Sumiter Singh Broca, Senior Policy Officer and Lead Technical Officer of the Project briefly apprised the meeting of the genesis of the project that was framed in line with ASEAN experience and success.

Recommendations:

- The meeting noted that it is difficult to meet the challenges by individual country but may be easier with concerted regional efforts in collaboration with development partners;
- The meeting noted that detail comments and observations would be sent through email to SAARC Secretariat with copy to Lead Consultant within a week for incorporation with particular reference to recent development and achievement in the region;
- The meeting agreed upon that in addition to gender issue and capacity development aspects, climate change is required to be included as cross-cutting area;
- It was agreed that CGIAR institutions may be linked in order to Food and Nutrition Security (FNS) capacity development;
- It was agreed that the spirit of 'Leave No One Behind' needs to be highlighted for the framework incorporating social safety net programs. However, it was agreed that the framework may not indulge in incorporating all relevant issues beyond the capacity of the framework;
- It was suggested that community based approaches for FNS service delivery system may be highlighted instead of suitable education models. It was advised that youth engagement for sustainable agriculture may be advocated;
- For infrastructure development, public-private-partnership may be considered for agriculture mechanization.

SAARC-CGIAR Consultative Meeting on Agricultural Research and Development for Food and Nutritional Security in SAARC Region

The SAC in collaboration with IFPRI organized the SAARC-CGIAR Consultative Meeting on Agricultural Research and Development for Food and Nutritional Security in SAARC Region on 2-3 August 2017 in NASC, New Delhi, India.

The objectives of the meeting were to:

- (i) Forge partnership between SAARC and CGIAR to promote agricultural innovation and technologies dissemination in the region.
- (ii) Exchange knowledge and experiences on regional agriculture, food and nutrition, and poverty challenges and priorities in the region.
- (iii) Identify need-based research agenda for the region for possible collaborations.

The meeting was participated by Heads of the NARS from 8 SAARC Member Countries (Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan and Sri Lanka), SAARC Division-MEA-India, representatives of 13 CGIAR Centres, World Vegetable Centre and CABI. The meeting was inaugurated by Dr. Trilochan Mohapatra, Secretary, Department of Agricultural Research and Education and Director General of ICAR, Government of India. Establish a formal Protocol of cooperation among NARSs and CGIAR to integrate and collaborate in agricultural research for regional development.

Recommendations:

- Organize a SAARC-Donor meeting to share the priorities and project proposals and seek support in implementing the projects;

- Elaborate and develop project on the priority programs;
- Develop national need based programs;
- Discuss with specific agencies to develop and implement the programs;
- Attach agricultural priorities to higher SAARC bodies;
- Formalize the NARS-CGIAR biennial consultative meetings as a regular curriculum;



Dr. S M Bokhtiar, Director, SAC delivering his remarks in the Inaugural Session of the Meeting



Photo Session with the Chief Guest Dr. T. Mohapatra, Secretary, DARE and Director General, ICAR, India

SAC PhD Scholarship

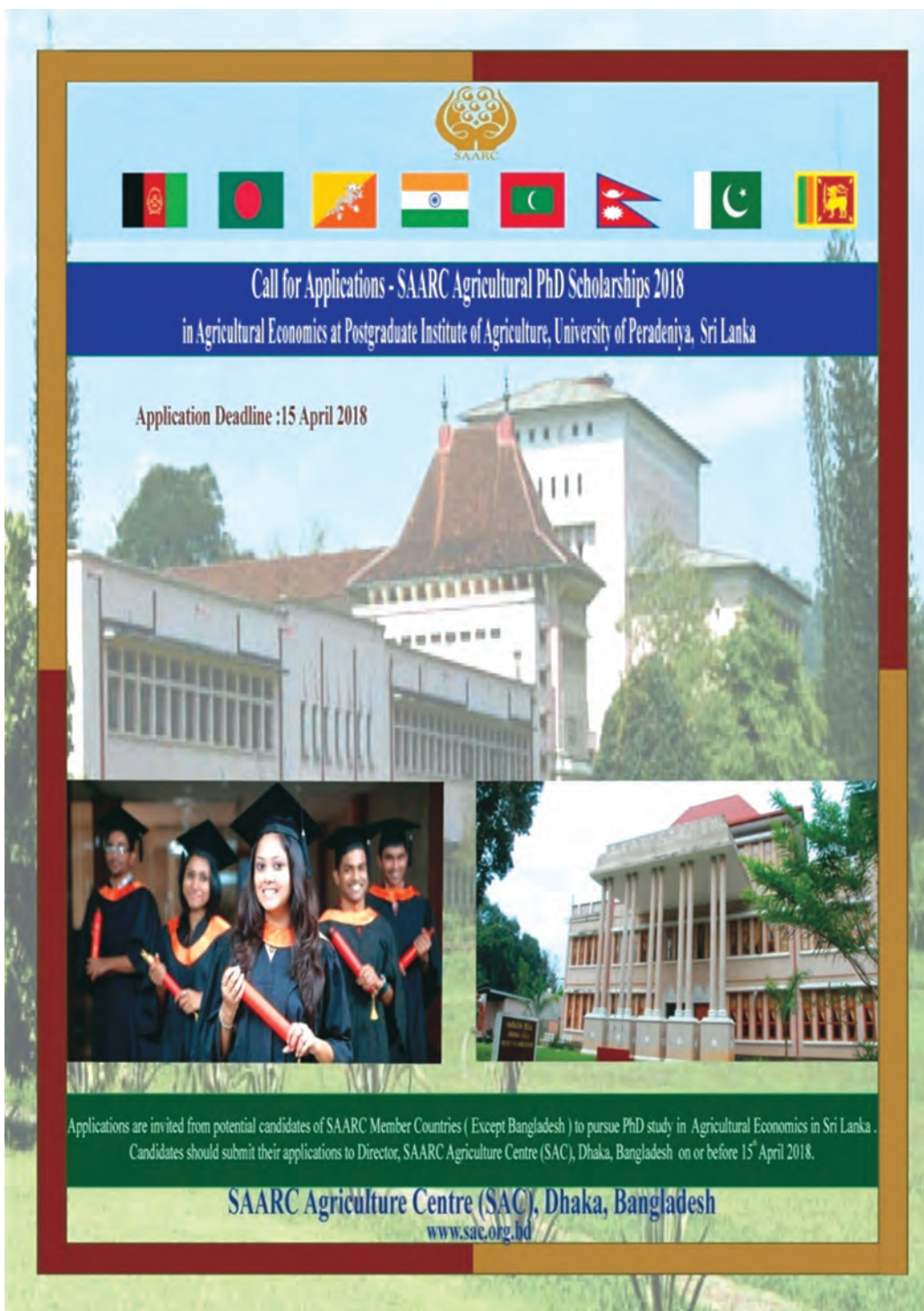
The SAARC Agriculture Centre (SAC) under the framework of SAARC has been working for strengthening agricultural research and technology transfer through regional network among agricultural research and development institutions and policy makers in South Asia. The SAC has under taken initiatives to support aspiring agricultural scientists of the region to pursue their PhD in reputed agricultural universities in SAARC Region and launched annual doctoral scholarship grant program from 2017 academic year. The scholarships provide financial support for applicants from SAARC Member Countries to undertake a postgraduate qualification at PhD level in the field of agriculture and allied disciplines for 3 years. The scholarships are competitive and merit-based providing opportunities for regular employees of the National Agricultural Research and Extension System (NARES) in respective SAARC Member Countries to gain their PhD qualifications.



Director SAC hand over the offer letter to the candidate

SAARC

SAARC Agriculture PhD program offer for 2018



The poster features a blue header with the SAARC logo and flags of member states. Below this, a dark blue banner contains the call for applications text. The main body of the poster is a collage of images: a large building with a central tower, a group of graduates in black gowns, and a modern building with a red roof. The bottom section is a green banner with application details and the SAARC Agriculture Centre (SAC) information.

SAARC

Call for Applications - SAARC Agricultural PhD Scholarships 2018
in Agricultural Economics at Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka

Application Deadline :15 April 2018

Applications are invited from potential candidates of SAARC Member Countries (Except Bangladesh) to pursue PhD study in Agricultural Economics in Sri Lanka .
Candidates should submit their applications to Director, SAARC Agriculture Centre (SAC), Dhaka, Bangladesh on or before 15th April 2018.

SAARC Agriculture Centre (SAC), Dhaka, Bangladesh
www.sac.org.bd



Agriculture Management Programs

SAARC

Regional Experts Consultation

Horticulture

Regional Expert Consultation Meeting on “Technology Sharing of Spice Crops in SAARC Member Countries”

SAARC Agriculture Centre, Dhaka in collaboration with ICAR-IISR, India organized a consultation meeting on “Technology Sharing of Spice Crops in SAARC Countries” at ICAR-Indian Institute of Spices Research (IISR), Kerala, India on 11-13 September 2017 with the following objectives:

- Establish network for sharing new technologies for spice production, value and supply chain development and national and international market;
- Contribute the economy of SAARC countries by spices production and developing intra and internal spice trade among SAARC countries.

The meeting was inaugurated by Dr. P Rajendran, Hon’ble Vice Chancellor Kerala Agricultural University as Chief Guest, Dr. Homey Cheriyan, Director, Directorate of Arecanut and Spices Development, Ministry of Agriculture and Farmers Welfare, Government of India as Guest of Honor. The meeting ended with vote of thanks by Dr. Lijo Thomas, Scientist, ICAR- Indian Institute of Spices Research. Dr. Pradyumna Raj Pandey, Senior Program Specialist (Crops) of SAC coordinated the program.

Recommendations:

Policy

- The member countries should have a unified stand on food safety and sustainability which need to be codified through frequent dialogues and interactions;
- A spice knowledge portal need to be set up for information and knowledge management pertaining to spices;
- Integration and harmonization of GAP and trade policies among member countries;

Research

- Country specific researchable issues in spices need to be identified, prioritized and shared among member countries to realize spill over benefits from spices research in the entire SAARC region;
- Create a research platform to address common problems in member countries and facilitate visit of experts across the SAARC countries to share their expertise;
- Pilot studies on feasibility of introducing newer spices to member countries should be undertaken;
- Immediate efforts should be taken to identify and document the intrinsic qualities of ethnic spice varieties to fetch premium price to growers;
- New research initiatives should be undertaken to establish the superiority of natural spices over synthetic ones;
- An integrated research and development project may be prepared and submitted for external funding.

Linkage

- A spice task force on technology sharing and sorting out trade related issues may be set up;
- A technology hub needs to be created for creating awareness and sharing of technologies including varieties among member countries;
- Mechanism for developing creative partnership models with industry and private sector in contract farming, value addition and processing to be promoted;
- Harmonization of Standard Operating Practices in quality evaluation and processing.

Human Resource Development

- A Centre of Excellence in Spices may be established for human resource development and skill enhancement in a suitable location;
- Institute to offer scholarships for post graduate and doctoral studies in spices for scholars from SAARC Member Countries need to be established;



Dr. P Rajendran, Hon'ble Vice Chancellor, Kerala Agricultural University delivering the inaugural speech

Crops

Regional Experts Consultation Meeting on “Conservation Agriculture (CA) in SAARC Member Countries”

The Regional Experts Consultation Meeting on Conservation Agriculture in SAARC Member Countries conducted in Paro, Bhutan from 28 to 30 August 2017. The program was jointly organized by SAARC Agriculture Centre (SAC), Dhaka, Bangladesh, College of Natural Resources, Royal University of Bhutan, Lobesa, Bhutan and the Department of Agriculture, Ministry of Agriculture and Forests, Thimphu, Bhutan.

Objectives:

- Incorporate Conservation Agriculture (CA) and disseminate information among all stakeholders;

- Formulate Conservation Agriculture (CA) network in South Asia;
- Continue to conduct conservation agriculture activities through SAC.

The Program coordinated by Dr. Pradyumna Raj Pandey, Senior Program Specialist (Crops), SAARC Agriculture Centre, Dhaka, Bangladesh and Dr. Sonam Tashi, (Dean, Academic Affairs and Assoc. Professor, Dept. of Agriculture), College of Natural Resources, Royal University of Bhutan. Honourable Secretary Dasho Rinzin Dorji, Ministry of Agriculture and Forests was Chief Guest of the opening ceremony.

Mr. Ganesh Bahadur Chettri, Agriculture Specialist and Advisor of Department of Agriculture (DoA) Chaired the opening session.

Recommendations:

- Need for coordination with neighbouring countries to learn best practices on CA;
- Strengthen R & D on user and gender friendly tools and equipments on CA;
- Introduction of subsidy and incentive for CA farmers and practitioners.
- Policy should be needed to skill development of farmers, local service providers (LSPs) and operators;
- Establishment of SAARC information unit in each country to validate, exchange CA based technology among the member countries;
- Include CA into the National Agricultural Policy focused on integrated sustainable conservation policy with inclusive indigenous technology.



Delivering speech by the guest



Participants of the consultation meeting

Scaling-up of Proven Technologies for Maize Improvement through Participatory Approach in the South Asian Region (Video Conference)

SAARC Agriculture Centre (SAC), Dhaka, Bangladesh organized an expert consultation meeting through video conferencing on “Scaling-up of Proven Technologies for Maize Improvement through Participatory Approach in the South Asian Region” was held on 18 September 2017.

It was a virtual meeting and the focal persons were connected through video conferencing. The main objective of the meeting was to improve production of maize by promoting maize improvement technologies with participatory approach of stakeholders, researchers and extension officials.

The meeting was attended by the six focal point experts from SAARC member countries. A total of six technical papers were presented by the focal point experts. The meeting was inaugurated by Dr. S. M. Bokhtiar, Director, SAARC Agriculture Centre while the meeting was facilitated by Dr. Pradyumna Raj Pandey, Senior Program Specialist (Crops) of the centre. After elaborate discussions, a good set of recommendations were made on different thematic areas for further intervention.



Director, SAC is conducting the session through video conferencing

Recommendations:

Policy and Technological

- Production of maize hybrid seeds locally to scale up locally developed hybrids;
- Subsidizing or exemption of tax for maize based industry- starch, edible oil etc.;
- Training of farmers and different stakeholders;
- Development of stress resilient hybrids- maize varieties tolerant to abiotic stresses like soil moisture content, salinity, drought, flood, lodging and resistant to biotic stresses like diseases, insect-pests;
- Mechanization in maize planting, harvesting, shelling, drying, etc.;
- Training of scientific human resources on hybrid maize breeding and agronomy;
- Sharing of promising maize hybrid lines for heat and drought tolerance;
- Yearly SAARC Annual Workshop on Maize program in the region;
- CIMMYT should play pro-active role in implementing the maize program in the SAARC region;
- Management of weeds using Tembotrione; Identification of alternative seed hub to support hybrid seed requirement of SAARC countries; Mechanization of post-harvest handling of maize grains;
- Establishment of SAARC Maize Working Group towards regional cooperation; Regional linking of source and supply to supplement export-import i.e. to have a

on-line system for better connectivity among growers and consumers (poultry and starch industries); Popularization of value added maize products through government schemes;

- Formation of SAARC Maize Working Group, SAARC Trails and workshop;
- Identified maize mega-environment within SAARC countries;
- Promotion of maize hybrid technology through licensing and sub-licensing to private partners;
- Mechanization to reduce women drudgery and labor shortage;
- Ridge sowing to maintain plant population & water saving;
- Use of treated hybrid seed preferably single cross;
- Timely adoption of plant protection measure (pesticides like weedicides/ herbicides, insecticides and fungicides);
- Use of mechanical harvesting technology;
- Support price for maize produce;
- Encourage and promote Public-Private Partnership (PPP) for maize improvement and seed production;
- Establish village based enterprises for implements, fertilizers, seeds and other inputs;
- Mechanization of planting, mechanical weeding and harvesting to reduce the labor cost;
- Promotion of soil conservation package in rain-fed uplands to increase productivity of maize;
- Strengthening the development of high yielding and stress resilience local maize single cross hybrids through collaboration with CIMMYT and SAARC Member Countries;
- Scaling up of local hybrid seed production by providing technical and physical supports and infrastructures;
- Encourage the private sector participation for hybrid varietal improvement research and seed production.

SAARC

Livestock

Regional Expert Consultation Meeting on “Sustainable Goat Farming for Livelihood Improvement in SAARC Member Countries: Opportunities, Constrains and Potential”

SAARC Agriculture Centre (SAC), Dhaka, Bangladesh in collaboration with Pakistan Agricultural Research Council (PARC), Islamabad, Pakistan jointly organized an expert consultation meeting on “Sustainable Goat Farming for Livelihood Improvement in South Asia: Opportunities, Constrains and Potential” at National Agricultural Research Centre, Islamabad, Pakistan on 22-24 August 2017 with the objective, to review and document of existing goat farming practices in the SAARC region.

The meeting was attended by seven focal point experts as well as good number of local experts. Thirteen technical papers (e.g. seven country study reports as well as six local research papers on goat genomics, reproduction and diseases) were presented in the consultation meeting. Apart from this, one presentation was made by the representative of International Livestock Research Institute (ILRI). The meeting was result oriented, expressed through participant’s knowledge sharing and interaction. The meeting was inaugurated by Mr. Sikandar Hayat Khan Bosan, Federal Minister, Ministry of National Food Security and Research, Pakistan, concluded by Mr. Muhammad Abid Javed, Secretary, Ministry of National Food Security and Research. Md. Nure Alam Siddiky, SPO (Livestock) of SAC coordinated the program.

Recommendations:

Research Issues

1. Genomic analysis to be undertaken for indigenous goat breeds;
2. Development of genetic stock (gene bank) by supply of high potential bucks/embryo/semen;
3. Production of superior buck through selective breeding and open nucleus breeding scheme approach;
4. Utilization of non-conventional feed resources to mitigate the shortage of feeds and fodder;
5. Identification of breed specific traits of different indigenous goat breeds adapted in diverse agro climatic conditions.

Extension and Development Issues

1. Establishment of nucleus farms for genetically superior goats for its conservation and development;
2. Promotion of balanced feed and feeding practices in rural goat farming;
3. Wider popularization of goat based business and livelihood models for rural farmers;
4. Provision/ facilitation for input services to small farmers;
5. Motivation and assurance of regular vaccination and de-worming practices;
6. Provision for supply of superior quality buck to the progressive goat farmers;
7. Development and provision of artificial insemination for smallholder farmers;
8. Establishing virtual system/ use of ICT to improve goat production.

Policy Issues

1. Develop and promote linkages among the designated regional R & D organizations for sharing of expertise and experiences;
2. Strengthening of public and private sector partnership;
3. Exchange of goat germplasm among the member countries for mutual benefits;
4. Incentives to be provided for the production and exchange of superior quality buck;
5. Organization of regional exchange visit, exposure visit and short internship for professional and scientific community;
6. SAARC leading reference laboratory may be developed/ identified for the genomic analysis of indigenous goat breeds.



Federal Minister for NFS&R Sikandar Hayat Khan Bosan, Chairman PARC Dr. Yusuf Zafar T.I., SPO (Livestock) SAC Dr. Muhammad Nure Alam Siddiky, DG NARC Dr. M Azeem Khan and other Addressing on the Occasion of SAARC Regional Expert Consultation on Sustainable Goat Farming for Livelihood Improvement in South Asia: Opportunities Constrains and Potential at NARC (22nd August 2017)

Honorable Minister and Guests are delivering their speech at Inaugural Function

Regional Expert Consultation Meeting through Video Conferencing on “Backyard Poultry Production Systems in SAARC Member Countries”

SAARC Agriculture Centre (SAC), Dhaka, Bangladesh organized an expert consultation meeting through video conferencing on “Backyard Poultry Production Systems in SAARC Member Countries” on 11 July 2017. It was a virtual meeting and the focal persons were connected through Skype.

The main objective of the meeting was to help wider dissemination of knowledge and adoption of the best practices on backyard poultry production system to make profitable business.

The meeting was attended by the eight focal point experts from the all SAARC Member Countries. Seven technical papers were presented by the seven focal point experts along with other experts. The meeting was inaugurated by Dr. S. M. Bokhtiar, Director, SAARC Agriculture Centre, the meeting was facilitated by Dr. Md. Nure Alam Siddiky, Senior Program Officer (Livestock) of the centre. After elaborate and extensive discussions, a good set of recommendations were made on different thematic areas for further intervention.

Recommendations:

Research Issues

- Identification and characterization of local promising and potential indigenous backyard poultry genetic resources;
- Structured and planned breeding programs to be initiated considering the consumers need using native and other suitable germplasm;
- Sharing of promising backyard poultry genetic resources under the initiative of SAC;
- Development of effective disease control strategies through surveillance, research, bio-security measures and introducing thermo-stable new castle disease vaccines;
- Development of cost effective feed ingredients and feeding strategy using local resources (household wastes, processing wastes, plants, and probiotics);
- Development of suitable backyard poultry farming model to be fitted with local needs, resources and environment;
- Development of comprehensive marketing channel for supplying safe poultry meat and eggs with premium price;
- Generation of small scale poultry processing technologies for value addition in poultry meat and eggs;
- Utilization of region specific indigenous breeds for the development of varieties for the backyard poultry farming.

Extension Issues

- Controlling the common diseases like New Castle Disease, Marek's Disease and Fowl Pox is very important in backyard poultry. Regular vaccination and medication should be practiced for better production and returns from the birds;
- Improved management practices of housing, feeding, disease control & bio-security through improved extension services to be ensured;
- Scaling up of skill of rural farmers and women on better husbandry practices, disease control and nutrition on priority basis for effective backyard farming;
- Reduction in mortality especially due to disease outbreaks can be effectively controlled through mass vaccination campaign throughout the country;
- Massive publicity and motivation on the comparative advantages of backyard poultry and its products to be communicated to the community;
- Popularization of rice husk incubation system for supplying ducklings / chicks to different agro ecological zones.

Policy Issues

- Establishment of Regional Gene bank for the conservation of promising backyard poultry genetic resources;
- Promising populations need to be conserved in a structured breeding program. Conservation and maintenance of the indigenous breeds is the urgent necessity as they are available in few numbers only with farmers;
- Public-Private-Partnership (PPP) model for large scale propagation of rural poultry farming to be initiated;

- To promote organic backyard poultry production by providing incentives to the farmers and value addition of these products;
- A comprehensive census relating and reflecting the status of backyard poultry has to be done at country level;
- Development of organized marketing system for rural poultry and poultry products;
- Emphasis has to be given to promote backyard poultry production in national poultry development policy.



Participants attending and interacting at the Video Conference Meeting

Consultation Meeting on “Sustainability of Regional Support Unit (SAARC-RSU)”

Dr. S.M. Bokhtiar, Director, SAARC Agriculture Centre attended SAARC-FAO consultation meeting on “Sustainability of the Regional Unit (RSU) and other Mechanisms created under HPEDS and TADs project” on 9 March 2017 in Kathmandu, Nepal. The meeting was discussed on the different options and possibility towards the long term sustainability of the regional support unit and its Mechanisms. After elaborate discussion, the meeting directed SAC to submit a proposal on integration of RSU with SAARC Agriculture Centre for its long terms sustainability. It was categorically mentioned that Regional Support Unit (RSU) for Highly Pathogenic and Emerging Diseases (HPED) was established in 2010 in Kathmandu, Nepal under the European Union supported regional project keeping in view to controlling Highly Pathogenic and Emerging Diseases (HPED) in South Asia from 2010 -2014. Further, the project has been extended with the support of Asian Development Bank from 2015-2017. The 18th SAARC Summit directed that successful completion of the HPED project, the Regional Support Unit (RSU) and Regional Epidemiology Centre (REC) set up under the project would be incorporated with the SAARC Agriculture Centre (SAC) with a view to enhancing SAARC’s long term capacity building in the livestock sector.

Fisheries

Regional Expert Consultation Meeting on “Best Management Practices in Aquaculture: Capacity Building and Policy Development”



Participants with Chief Guest

SAARC Agriculture Centre (SAC) had organized a SAARC Regional consultation on ‘Best Management Practices in Aquaculture: capacity building and policy development’ at Negombo, Sri Lanka on 19-21 September 2017. The program was jointly organized by the SAC, Dhaka and National Aquatic Resources Research & Development Agency (NARA), Sri Lanka. Dr. Shiba Shankar Giri, Senior Program Specialist (Fisheries), SAC, Dhaka was the Program Coordinator and led the SAARC delegation to Sri Lanka. The National Focal-point Experts of the SAARC Member Countries, Dr. Kazi Iqbal Azam of Bangladesh, Mr. Namgay Dorji of Bhutan, Mr. Rama Sankar Naik of India, Ms. Shafiya Naeem of Maldives, Mr. Gayatri Raj Wagle of Nepal, Dr. Rehana Kausar of Pakistan, Dr. Wasantha Pahalawatte Arachchi of Sri Lanka and Dr S. S. Giri of SAC were in the delegation. Dr Anil Premaratne, Chairman, NARA was the local coordinator of the consultation meeting. The regional consultation was inaugurated by Hon. Dilip Wedaarachi, State Minister for Fisheries and Aquatic Resources Development, Sri Lanka.

The objectives of these three day regional consultation were:

- To identify the issues, challenges and prospects of aquaculture in SAARC region; to discuss the policies, standards and practices pursued by the SAARC Member Countries in aquaculture; to discuss the BMP adopted by other Asian countries, apart from SAARC countries, in aquaculture;
- To learn the existing mechanisms and future approaches needed to meet the SDGs goal in aquaculture by the SAARC Member Countries.

The consultation meeting was attended by more than 40 participants from different institutions and organizations from Sri Lanka, and SAARC member countries. In successive technical sessions, seven country status paper and many oral presentations were presented on aquaculture systems and sustainability issues, best management practices, capacity development in aquaculture, international trade and export of aquaculture produces and policy issues related to the theme.

Recommendations:

- Revisiting the existing codes in aquaculture in SAARC Member Countries, and framing and harmonizing new codes to tap the global export market of aquaculture products;

- Establishment of brood banks, seed certification and health certification facilities;
- Development and harmonization of quality standards for fish, fish products and their handling;
- Development of disease surveillance, antimicrobial resistance (AMR), disease management and quarantine measures in aquaculture;
- Prevention of use of hormones, drugs, antibiotics and disease control chemicals in aquaculture and aquaculture products;
- Setting up of accredited fish feeds analytical laboratories in the region;
- Use of Information and Communications Technology (ICT) and smart technology in aquaculture;
- Proper disposal of wastes generated from aquaculture;
- Framing of policy to lease public water bodies, registration of Aquaculture, and setting up of Farmer Producer Organizations (FPOs);
- Security to farmers in case of crop losses;
- Institutional linkages, capacity building and continuous awareness campaign at primary producer level for sustainable aquaculture;
- Creating more investment in aquaculture and creating value chain and supply chain for the produce;
- Freshwater fish germplasm exchange among the Member Countries;
- Creating mechanism for better information sharing among the SAARC Member Countries on aquaculture development and conducting SAARC Aquaculture dialogue;
- Recognize nutritive value of small indigenous species and develop policy towards promoting nutrition sensitive aquaculture;
- Framing of biodiversity and environment compatible stringent Aquaculture Policy in the SAARC Region;

Regional Expert Consultation Meeting on “Farm-made Feed for Sustainable Aquaculture Development in SAARC Member Countries: opportunities, challenges and policy intervention”



Participants from SAARC Member Countries

SAARC Agriculture Centre (SAC) had organized a SAARC Regional consultation on 'Farm-made feeds for sustainable aquaculture development in South Asia: opportunities, challenges and policy intervention' in Kathmandu, Nepal during 10-12 October 2017. The program was jointly organized by the SAC, Dhaka and Ministry of Agricultural Development, DOA/DoFD, Nepal. Dr. Shiba Shankar Giri, Senior Program Specialist (Fisheries), SAC, Dhaka was the Program Coordinator and led the SAARC delegation to Kathmandu. The National Focal-point Experts of the SAARC Member Countries, Mr. Md. Goljar Hossain of Bangladesh, Mr. Druk Pola of Bhutan, Ms. I. Rani Kumudini of India, Mr. Hussain Ahmed of Maldives, Mr. Bhagwat Prasad of Nepal, Mr. Jahan Sher Khan of Pakistan, Mr. Don Ananda Athukorala of Sri Lanka and Dr S. S. Giri of SAC were in the delegation. Mr. Baikuntha Adhikari, Program Director, Directorate of Fisheries Development, and Mr. Prabesh Singh Kunwar, Senior Fisheries Development Officer, DoFD, Nepal, respectively were the local coordinator and co-coordinator of the consultation meeting. The regional consultation was inaugurated by the Hon'ble Ram Krishna Yadav, Minister for Agriculture Development, Nepal as the Chief Guest and Dr. Suroj Pokhrel, Secretary, Ministry of Agricultural Development and Dr. Baidya Nath Mahato, Executive Director, Nepal Agricultural Research Council as the Special Guests.

The objectives of these three day regional consultation were:

- To prepare an inventory of feed ingredients, their nutritive values and farm-made feed production and feeding practices followed in aquaculture in South Asian Region;
- To realize the importance of farm-made feeds for small-scale aquaculture and policy interventions for technological and financial support to small-scale farmers.

The consultation meeting was attended by more than 30 participants from different institutions and organizations from SAARC Member Countries. In successive technical sessions, eight country status paper and many oral presentations were made on farm-made fish feeds, food-feed scenario in South Asia, aquaculture systems and sustainability issues, capacity development in fish feeds and aquaculture and policy issues related to the theme. This was followed by separate working group discussion and policy recommendation for the SAARC Region drafted. After the seminar, the participants had occasion to visit the trout farms in Nepal on 12 October 2017 and to further continue their discussions.

Recommendations:

- Development of nutrient requirement table and feeding standards for life cycle stages of cultivable species in the SAARC region;
- Exploration and identification of suitable feed resources, their analysis and tabulation of nutrient compositions and anti-nutritional factors;
- Setting up of SAARC regional level aqua-feeds testing referral laboratories for quality assurance and certification;
- Compilation of farm made feed formulations available across the region and development of region specific cost effective feed formulations for aquaculture;
- Documentation of farm made feed processing and manufacturing technologies across the region;
- Standardize the feed management and feeding practices, appropriate appliances to minimize feed loss in aquaculture;

- Guidelines for feed handling, packaging, labelling and on farm storage of aqua-feeds;
- Enhance natural pond productivity to reduce feed use in aquaculture;
- On-farm training and demonstration to farmers for use of farm-made feeds;
- Training of trainers on farm-made feeds;
- Uniform feed policy and regulation for all sectors of resource users viz, animal husbandry, poultry and aquaculture;
- Use of good management practices(GMP) to make aquaculture environmentally sustainable and socially compatible;
- Inter-institutional linkages and capacity building in education, research, training and exchange visits among the SAARC Member Countries.

Natural Resource Management

Regional Experts Consultation Meeting on “Best Practices of Integrated Plant Nutrition System (IPNS) in SAARC Member Countries”

A regional expert consultation meeting on “Best Practices of Integrated Plant Nutrition System (IPNS) in SAARC Countries” was held at Bangladesh Agricultural University (BAU), Mymensingh, Bangladesh on 9-11 April, 2017. The meeting was jointly organized by SAARC Agriculture Centre (SAC), Dhaka, Bangladesh and Bangladesh Agricultural University, Mymensingh, Bangladesh. A total 25 participants were attended the program including 6 Member Countries namely Bangladesh, Bhutan, Maldives, Nepal, Pakistan, and Sri Lanka.



Regional experts consultation meeting

Objectives

1. To identify the successful practices of Integrated Plant Nutrition System for different land use systems;
2. To assess the role of inorganic fertilizer and organic manure in IPNS under different land use systems;
3. To identify the issues and prospects of mainstreaming IPNS.

Chief Guest Mr. Md. Fazle Wahid Khondaker, Additional Secretary (Research), Ministry of Agriculture, Govt. of the People’s Republic of Bangladesh, Guest of Honor Mr. Tareq

Ahmed, Director General (SAARC & BIMSTEC), Ministry of Foreign Affairs, Bangladesh, Chief Patron Professor Dr. Md. Jasim Uddin Pro-Vice Chancellor, BAU, Chairperson Professor Dr. Md. Anwarul Abedin, Head, Dept. of Soil Science, BAU was present in the inaugural program. Dr. S. M. Bokhtiar, Director, SAC welcome to the participants and expressed his heartfelt thanks for the guests and organizing institutions. Ms. Fatemia Nasrin Jahan, SPO (NRM) of SAC coordinated the program.

Recommendations:

Extension

- Availability of seeds of green manuring crops;
- Use of City compost;
- Collection of human and cattle urine for agricultural use;
- Availability of biofertilizer strains at farmers doorstep;
- Introduction of legumes in cropping system;
- Affordable micro-irrigation /fertigation;
- Convergence, integration and coronation of Government of plans, policies and programs run by different ministries/departments;
- Competitive use of crop residues;

Scaling up IPNS in Farmers Field

- Conducting frontline demonstrations on IPNS with due consideration of farmers' resource availability;
- Production and supply of city compost and bio-fertilizers through inorganic fertilizer industries;
- Capacity building/training for IPNS technology;
- Promotion of soil testing/compost /biofertilizers through Brand Ambassador using print and electronic media;
- Development of mobile apps on IPNS;
- Promoting IPNS technology through TV and FM Channels.

Sharing Technology

- Soil test kit/Minilab developed by IISS, Bhopal, India;
- Model for collection of human/cattle urine developed in Nepal;
- Biozote developed in Pakistan for seed treatment;
- Liquid Biofertilizer consortia and rapid composting technique developed by IISS, Bhopal, India.

Regional Experts Consultation Meeting on “Water, Food Energy Nexus: a basis for sustainable agricultural development”

SAARC Agriculture Centre (SAC) in collaboration with SAARC Energy Centre and ICIMOD organized a-3-day expert consultation meeting on “SAARC regional expert consultation meeting on water, food energy nexus: a basis for sustainable agricultural

development” on 3-5 July 2017 in Thimphu, Bhutan. The meeting was attended by 52 participants from 7 SAARC Member Countries.

Objectives

- To document the best policy practices in Water-Energy-Food (WEF) to harmonize the policy;
- To prepare strategic policy brief for regional integration of WEF Nexus for submission to SAARC Summit and regional forums.

The meeting was inaugurated by Dasho Rinzin Dorji, Hon’ble Secretary, Ministry of Agriculture and Forests, Royal Government of Bhutan. Dr. Shoaib Ahmad, Deputy Director, SAARC Energy Centre, Islamabad and Dr. Golam Rasul, Theme Leader, Livelihood, ICIMOD offered keynote remarks on WEF Nexus and its relevance in SAARC Region. Mr. Rinzin, Chief Planning Officer, Policy and Planning offered vote of thanks to all the delegates and participants. Dr. Tayan Raj Gurung, SPS (NRM) coordinated the program.

Recommendations:

- Establish policy framework on WEF nexus including ground water in the SAARC Region for equitable sharing and broadening the horizon of benefit.
- Establish the mathematical model for WEF Nexus for forecasting and decision support.
- Integrate the policy tools/mechanisms to strengthened the WEF Nexus
- Establish SAARC Water Centre.
- Strengthen institutional linkages for research collaboration/technology/transfer/ capacity building/exchange of data and information.



Regional expert consultation meeting

Regional Experts Consultation Meeting on “Community-based Non-Wood Forest Products (NWFP) Enterprise in SAARC Member Countries: A Sustainable Business Model”

SAC in collaboration with CIRDAP organized a SAARC Regional Consultation on Community-based Non-Wood Forest Products enterprise: A Sustainable business model on 24-26 August 2017 in Thimphu, Bhutan with the following objectives:

1. To exchange and share experience on the best community based enterprise on NWFPs in the South and South-East Asia Region;
2. To develop a regional project on Community-based enterprise on Non-Wood Forest Products (NWFPs): A Sustainable livelihood model to up-out scale the successful

model to improve livelihoods through product diversification and strengthening market linkages.

The meeting was inaugurated by Dasho Rinzin Dorji, Honorable Secretary, Ministry of Agriculture and Forests, Bhutan. The inaugural session was attended by Director General of BAFRA, Director of Agriculture and Forest. The meeting was attended by 7 SAARC Member Countries (Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal and Sri Lanka), representatives for Policy and Planning Division of MOAF, Department of Agriculture Marketing and Cooperatives, Department of Forest and Park Services of the Ministry of Agriculture and Forests. In addition Director General, CIRDAP, Research Officer of CIRDAP and 4 Member Countries of CIRDAP (Fiji, Laos, Myanmar, and Philippines) participated in the meeting. Based on the presentations and group consultations from all the country representatives, some major recommendations were identified.

Recommendations:

- Information Systems develop (Resource base and marketing);
- Capacity development at different levels;
- Technology transfer and piloting;
- Inclusive and empowering;
- Resource and community management;
- Sustainable harvesting;
- Processing and equipments;
- Harmonized standards;



Dasho Rinzin Dorji, Honorable Secretary



Participants from the SAARC Member Countries

Priority setting and program development

Regional Experts Consultation Meeting on “Facilitating use of microbial pesticides in Agriculture in SAARC Member Countries”

SAC in collaboration with National Bureau of Agricultural Insect Resources (NBAIR), India and CABI-South Asia organized this meeting in NBAIR, Bengaluru, India on 21-23 August 2017. Seven MSs except Pakistan were participated at this event with the following objectives:

- Revisiting the recommendation from regional workshop on bio-control in 2013 and assessing the current scenario;

- Enhanced analyses on the requisites to make bio-control successful from lab to farm;
- Flagging constraints and limitation in implementation of the recommendations.
- Improved linkage between private companies with public institutions to facilitate mechanisms ensuring utilization of bio-control technology as products in farmer fields.



Participants from the SAARC Member Countries

Dr. TM Manjunath delivered the inaugural speech on Microbial Pesticides: Introspection and prospects as chair. Dr. Ravi Khetarpal, Executive Secretary, APARI, Bangkok, Thailand delivered the key note address on ensuring agricultural bio-security engagements and use bio-pesticides for meeting SDGs in SAARC region. The expert from six countries—Afghanistan, Nepal, Bhutan, Pakistan, Sri Lanka and Bangladesh presented the current status of the technology flagging the constraints. Dr. WART Wickramaarachchi, SPS (PS&PD) of SAC coordinated the program.

Recommendations:

- Collaboration among SAARC Member Countries for strengthening the production and use of bio-pesticides wherever needed;
- Policy decision in each country for import and export of bio-pesticides;
- Separate legislation for registration of chemical pesticides and bio-pesticides and simplification of registration procedure for bio-pesticides;
- Creating awareness about bio-safety and bio- security of microbial pesticides and their proper use;
- Permission of registration of microbial pesticides consortia products;
- Training program for researchers in the field of microbial pesticides;
- Creation of working group which can meet once in a year to advise and assess the programs.

Regional Training

Livestock

Field Epidemiology Training Program for Veterinarians (FETPV)

A nine-day 'Field Epidemiology Training Program for Veterinarians (FETPV)' was organized at ICAR-NIVEDI, Bengaluru, Karnataka, India on 15-23 May 2017. The training program was jointly sponsored by SAARC-Agriculture Centre (SAC) and FAO Regional Support Unit. A total of sixteen participants from SAARC Member Countries excluding representation from Pakistan and Maldives were participated in the training program. The main objectives of the training Program as follows:

- To introduce and hands-on practice of veterinary field epidemiology to maximize higher productivity of animal;
- To identify best practices of animal field epidemiology to get more benefits from livestock production.

An inaugural ceremony of training program was conducted on 15 May 2017. The occasion was graced by Dr. Joykrushna Jena, DDG (Fisheries & Animal Science), ICAR, New Delhi, Dr. H. Rahman, former DDG (Animal Science) & regional representative, ILRI; and Dr. Parimal Roy, Director, ICAR-NIVEDI, Bengaluru and Dr. Nure Alam Siddiky, Sr. Program Officer, SAARC Agriculture Center, Dhaka. During the event, Dr. Divakar Hemadri, Course-Director, informed the purpose and focus of training program along with outline of nine day lectures as well as practical schedule.

Increasing the technical capacity of the member countries in livestock, SAC, supported such a regional training on 'Field Epidemiology Training Program for Veterinarians (FETPV)'. The training was very successful in ensuring the participation of the members and skill development of the participants.



Hands on Training

Priority Setting and Program Development

BARD-FAO Training Program on Project Planning & Implementation and Project Monitoring & Evaluation



Participants of BARD-FAO training program

BARD-FAO jointly organized a training program on Project Planning & Implementation and Project Monitoring & Evaluation on 21-31 October 2017, at BARD, Cumilla. This training is planned under the “FAO Technical Cooperation Program on strengthening the capacity of SAARC in the development, coordination and monitoring of a regional food security and nutrition framework, strategies and programs”. A total of 25 participants were participated at the 10 days training program from SAC, BARC, BARI, BRRI, BINA, BJRI, BSRI, BLRI, BTRI, BFRI, SRDI, BADC, DAE, DLS, DOF and Ministry of Planning.

The overall objective of the training program was to acquaint the participants with the concepts, stages, techniques and management of development projects.

The specific objectives of the course were to:

- i) acquaint the participants with the various concepts of development project, its context and stakeholders involved.
- ii) develop knowledge and skills on formulation and implementation of bankable development projects within the specific context of Food and Nutrition Security in South Asia.
- iii) familiarize the participants with the modern project appraisal, planning, monitoring & evaluation (M&E) techniques for successful project management.

In the inaugural session of the training program, Mr. Muhammad Maududur Rashid Safdar, DG, BARD presided over the function. Dr. Nur Ahamed Khondaker, Assistant FAO Representative (Program), and Dr. S.M. Bokhtiar, Director, SAC were present as the Guest of Honor in the inaugural session training program. Among others, Director Training, Course Coordinator and Assistant Course Co-coordinator who has been intimately engaging with training were also present as special invitee. Dr. WART Wickramaarachchi, SPS (PS&PD) of SAC coordinated the training program.

The following methods were followed in conducting the course:

- **Lectures:** Lectures followed by discussions and supply of handouts/books.
- **Assigned Reading:** Relevant lectures and case studies, the participants will be given selected books and articles to study in the library.
- **Practical/Group work sessions:** The participants will be given an outline to formulate and design a project document (e.g. Development of Project Proposals DPP/TPP, etc.) on the basis of their experiences in the training.

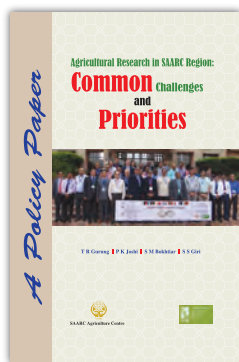
The major topics of this training were RBM method, logical framework, setting objectives of the project proposal, identifying problem tree, preparation of project budget, project planning, project evaluation, project monitoring etc. Most of the sessions of the training program were enjoyable, informative and understandable of the participants.



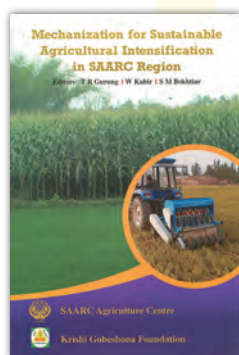
Knowledge Management and Networking

Under the aegis of Knowledge Management and Networking, SAARC Agriculture Centre regular publishes SAARC AgriNews (Quarterly), SAARC Journal of Agriculture (Half yearly), Food Grain Situation in SAARC Member Countries (Annually), SAARC Agriculture Outlook (Annually) etc.

SAC Publication 2017



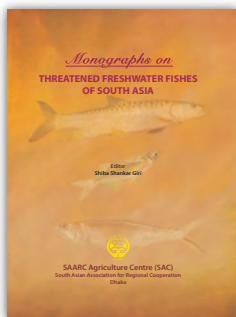
Agricultural Research in SAARC Region: Common challenges and priorities: This publication is consolidated efforts of National Agriculture Research System (NARS) of the SAARC Member Countries and the Consultative Group on International Agricultural Research (CGIAR). The publications may contribute to attain and sustain high agricultural growth in SAARC Region a synergy among policies, institutions, environment, technologies and natural resources to increase investment in the sector. It also may contribute to achieve Sustainable Development Goals (SDGs) as Agricultural Research and Development has direct relation with the some goals.



Mechanization for Sustainable Agricultural Intensification in SAARC Region: This book is an attempt to bring together the agriculture mechanization scenario in the region. The publication is compilation of the papers and proceedings of the SAARC country strategy status of agricultural mechanization which may contribute to rapid growth in agriculture as well as to create employment opportunity for rural people. The book is divided into eleven chapters. First chapter provides a mechanization trend in the region, followed by seven chapters on agricultural mechanization of SAARC countries. The last three chapters including topics related to business models for agricultural mechanization.

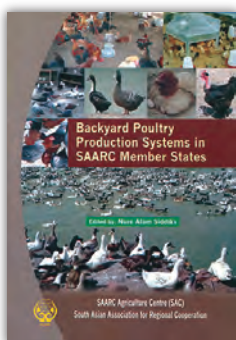


Community-based Non-Wood Forest Products (NWFPs) Enterprise: A Sustainable Business Model: considering the diversity of NWFPs and its role in sustainable livelihood of the communities in the region. The publication may also help to develop a business model in sustainable harvesting of the NWFPs and maintain sustainable flow of income and benefits. The main objective of this published book is to generate interactions and exchange of knowledge and information within SAARC Member Countries.



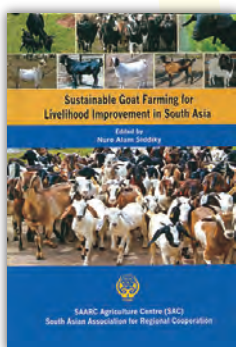
Monographs on Threatened Freshwater Fishes of South Asia:

The Monographs shares the information on threatened freshwater fish species and their conservation practices aiming to support in planning freshwater fish fauna biodiversity conservation strategies and policies in inland waters.



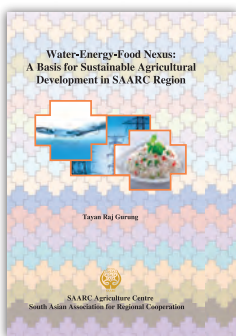
Backyard Poultry Production System in SAARC Member Countries:

This publication is the compilation of the country status reports. The publication has immense potential to improve livelihoods of the rural poor and growth of the rural poultry sector that can contribute to reduce poverty alleviation. This publication may also to the rural women in many countries to establish a small business as income generating activities. This will be very useful and informative for the professional, Academia and Researchers.



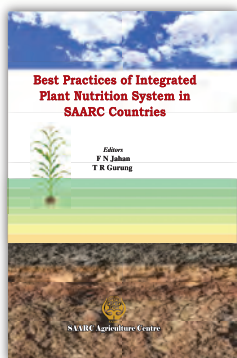
Sustainable Goat Farming for Livelihood Improvement in South Asia:

Goat farming can contribute to improve livelihood as well as nutrition security in SAARC Region. Goat farming is well integrated in the farming system of the small and marginal farmers of South Asia due low investment, easy handling especially by the women and ability to adopt in versatile conditions. The country status reports of SAARC Member Countries are accumulated in the publication which may useful of different stakeholders to improve their knowledge on goat farming.

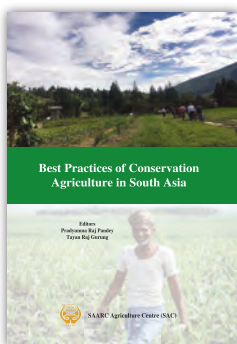


Water-Energy-Food Nexus: A basis for Sustainable Agricultural Development in SAARC Region:

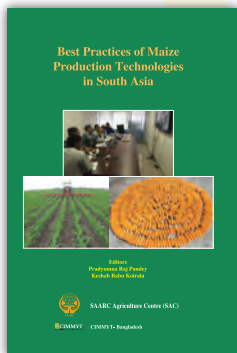
The publication is a collection of papers from the SAARC Member Countries about the Water-Energy-Food Nexus for Sustainable Agricultural Development. The main objectives of this publication are: i. Documenting the best policy practices in Water-Energy-Food to harmonize the policy; ii. Preparing strategic policy brief for regional integration. It may contribute to emerge shift in global thinking towards sustainable futures and resilient ecosystem. This publication may also help to researchers and professional of SAARC Member Countries to make policy paper.



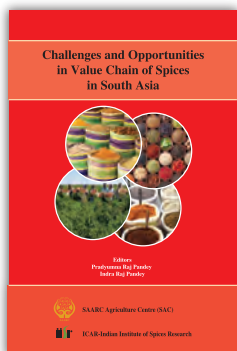
Best Practices of Integrated Plant Nutrition System in SAARC Countries: This book on Integrated Plant Nutrient System (IPNS), dealing with various aspects of plant nutrition, is an attempt to provide support to the ongoing efforts directed at enhanced and sustainable agricultural production. The book is the compilation of the country status report of seven Member Countries which may help the different stakeholders to improve their ability to identify and resolve constraints relating to plant nutrition. It may also help to contribute a technical economic and social or policy and to demonstrate on the field practical ways of increasing production.



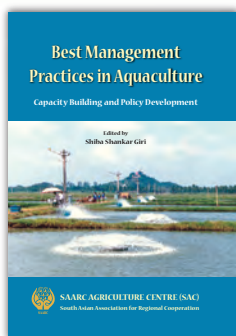
Best Practices of Conservation Agriculture (CA) in South Asia: The book is the compilation of the country status report of seven Member Countries. Conservation Agriculture (CA) has potential impact on the goal of crops sustainability, improving and making more efficient use of natural resources through integrated management of soil, water and biological resources, combined with judicious use of external inputs. The publication may help the different stakeholders to improve their ability to identify and resolve constraints relating to conservation agriculture. The main objectives of the recent published publication are: i. Identifying the best practices of conservation agriculture; ii. Promoting and sharing the best practices and technologies among the south Asian Countries.



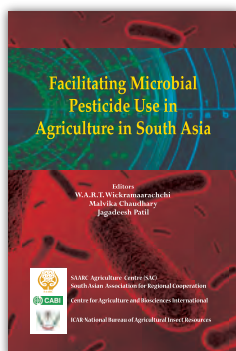
Best Practices of Maize Production Technology in South Asia: This publication is the compilation report of the Member Countries. Maize is one of the important crops in South Asia which contributes to improve livelihood of the small and marginal farmers. The publication may be useful of the researchers, professionals, development workers and academia to find out the necessary information of SAARC Region on maize cultivation easily. This book may also help to identify the opportunities and challenges and way forward of Maize Industry in South Asia.



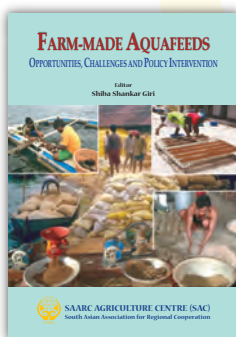
Challenges and Opportunities in Value Chain of Spices in South Asia: This book is a collection of papers contributed by the experts from SAARC Member Countries. The core objective of the publication is to share the current status and level of production technologies for spices crops available in the SAARC Member Countries with a special focus on black pepper, cardamom, cinnamon, ginger and turmeric. The publication may be useful by the different stakeholders to develop harmonize and common market development.



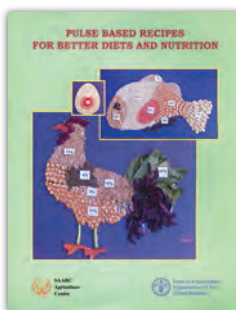
Best Management Practices in Aquaculture; Capacity Building and Policy Development: The Best Management Practices in Aquaculture is the compilation report of the Member Countries expert which has potential significant to improve livelihood of the small and medium scale fishermen. The publication also may help to share information on present practices in aquaculture in SAARC Member Countries. The main objective of the publication is to support capacity building and policy development for BMP in aquaculture by the Member Countries.



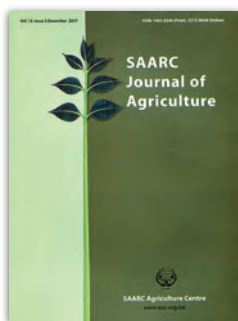
Facilitating Microbial Pesticide Use in Agriculture in South Asia: The publication is the compilation report of Member Countries Expert which has potential significant to improve human health and environment. This publication is a comprehensive overview of microbial pesticide production, registration, regulation and use in South Asia. And also bring out value recommendations for facilitating the microbial pesticide use in South Asia. The publication also may help to Professional, Academia, Scientist and Extension Staffs about the microbial pesticide use.



Farm-Made Aqua Feeds- Opportunities, Challenges and Policy Intervention: The publication of farm made aqua feed is the compilation report of Member Countries expert which has important to improve livelihood and food security of the rural fisherman in South Asia. Feed is the major contributor in aquaculture and shares about 50-80% of the total feed cost and that is why the publication may valuable for the researchers, academia and professionals through updated information. It is published to share also information on fish ingredients, their nutritive values, feed formulations, techniques and machinery used for on-farm processing and storage.



Pulse Based Recipes for Better Diets and Nutrition: It may provide a clear concept on pulse nutrition and diversification towards enhancing the use of pulses in our daily diet. The publication may also help to promote community –based nutrition education in combination with home based cooking demonstrations, messaging and processing to expand the consumption of locally available, nutrient dense foods such as pulses. The purpose of this published book is to use the policy makers, researchers and development partners from all relevant sectors in the betterment of food security and nutrition in Bangladesh.



SAARC Journal of Agriculture: SAARC Agriculture Centre (SAC) has been publishing half yearly peer reviewed journal “SAARC Journal of Agriculture” since 2003. It is a half yearly publication for the SAC and serves as a platform for exchange of latest knowledge on breakthrough topics that are of current concern. It publishes original research articles as well as review articles in all areas of agriculture, animal sciences, and fisheries from SAARC Member Countries. In 2016, the issues 1 & 2 for the volume 14 have been published and uploaded in the journal site.



SAARC AgriNews: This is a quarterly publication contains information on successful technologies/success stories generated in the fields of crops, fisheries, forestry, livestock etc. in different SAARC Member Countries. Its volume 10, issue 4 and volume 10, issue 1 were published in 2016. SAARC AgriNews is a regular publication of the SAC. It is a widely circulated quarterly Newsletter, devoted for disseminating agricultural research and development finding as well as information on applied technology for scientists, technologists, extension service providers, policy makers, students and farmers in South Asia.



SAC Annual Report 2016: The SAC has been publishing Annual Report every year. The Annual Report 2016 presented SAARC Agriculture Centre's completed activities and programmes. It is a comprehensive report and published in July 2017.

Archive of SAARC Agriculture Centre (SAC)

SAARC Agriculture Centre (SAC) developed system study and information collection from the existing system and requirement of the new database, interface and the CMS.04, designing and finalize the format of the archive and new web portal. The system needs to be robust enough to address multiple queries simultaneously by multiple users. In case of system crash there should be a rollback option with log and content.

The web address of the SAC is www.sac.org.bd. SAC publications have been uploaded in SAC website to facilitate easy access of the users. The pdf files are downloadable from the archive.

Publication available in SAC Archive

Sl. No.	Title of the Publications
1.	Released Varieties of Cereals, Pulses and Oilseeds in SAARC Region
2.	Cotton Technology Exchange Program in SAARC Region
3.	Policy Farming on Fish Biodiversity Management in Transboundary Rivers of South Asia
4.	Climate Change Impact on Coastal Fisheries and Aquaculture in South Asia
5.	Pulses for Sustainable Food and Nutrition Security in SAARC Region
6.	Annual Report 2015
7.	Role of Agro-processing for Rural Development in SAARC Region
8.	Status and Future Prospect of Organic Agriculture for Safe Food Security in SAARC Member Countries
9.	Soil and Soul – Means and End for Sustainable Agriculture
10.	SAARC Outlook on Water-Energy-Food Nexus in SAARC Member Countries
11.	Technological Advancement – Agro-forestry Systems – Strategy for Climate Smart Agricultural Technologies in SAARC Region
12.	Sericulture Scenario in SAARC Region
13.	Potential and Prospect of Floriculture Sector to Improve Livelihood of the Farmers in SAARC Member Countries
14.	Status and Future Prospect of Organic Agriculture for Safe Food Security in SAARC Member Countries
15.	SAARC Dairy Out Look
16.	Means and End for Sustainable Agriculture-A collection of essays and seminar papers on Soil
17.	Mite management of coconut in SAARC Member Countries
18.	Adaptation to Climate Change Impact on Crop Production in SAARC Member Countries
19.	Prospects, Needs Benefits and Risk Assessment of Agriculture Related Genetically Modified Products in SAARC Member Countries
20.	Farm Animal Genetic Resources in SAARC Member Countries Diversity, Conservation and Management
21.	SAARC Journal of Agriculture Vol.12 Issue 1
22.	Value Chain Analysis and Market Studies on Fruits and Vegetable in SAARC Member Countries
23.	National Agricultural Extension Systems in SAARC Member Countries An Analysis of the System Diversity

Sl. No.	Title of the Publications
24.	SAC Monograph The SAARC Australia Project Developing Capacity in Cropping Systems Modelling for South Asia
25.	Coastal and Marine Fisheries Management in SAARC Member Countries
26.	Popularizing Multiple Cropping Innovation As a means to Raise Crop Productivity and Farm Income
27.	Extent and Potential use of Bio-pesticides for Crop Production in SAARC Member Countries
28.	Best Practices and Procedures of Saline Soil Reclamation Systems in SAARC Member Countries
29.	National Agricultural Education System in SAARC Member Countries
30.	Economic Impact of Transboundary Animal Diseases in SAARC Member Countries
31.	Diversity of Veterinary Services in SAARC Member Countries
32.	SAARC Journal of Agriculture Vol.11 Issue 1
33.	SAARC Journal of Agriculture Vol.11 Issue 2
34.	Quality Seed in SAARC Member Countries Production, Processing, Legal and quality Control and Marketing System (Reprint)
35.	SAARC Seed Outlook
36.	Current Status and Future Prospect of Pulse Production in SAARC Member Countries
37.	Directory of Successful Farm Machinery in SAARC Member Countries
38.	Statistical Data Book for Agricultural Research and Development in SAARC Member Countries 2012
39.	Impact of Climatic Parameters on Agricultural Production and Crop Productivity Losses through Weather Forecast and Advisory Service in SAARC Member Countries
40.	Enhancing Oilseeds Production through Improved Technology in SAARC Member Countries
41.	SAARC Journal of Agriculture Vol.10 No.1
42.	NARS -National Agricultural Research System in SAARC Member Countries- An analysis of System diversity
43.	Pesticide Information of SAARC Member Countries
44.	Veterinary Public Health and Zoonotic Disease Control in SAARC Member Countries (Workshop Proceedings)

Sl. No.	Title of the Publications
45.	SAARC Journal of Agriculture Vol. 9 No.1
46.	SAARC Journal of Agriculture Vol. 9 No.2
47.	Dairy Production, Quality Control and Marketing System in SAARC Member Countries (Workshop Proceedings)
48.	Strategies for Arresting Land Degradation in South Asian Countries
49.	Quality Seed in SAARC Member Countries: Production, Processing, Legal and Quality Control and Marketing System (Workshop Proceedings)
50.	Public Sector Support System and its collaboration with Private Sector for Livestock Development in SAARC Member Countries
51.	Statistical Data Book for Agricultural Research and Development in SAARC Member Countries (2008-09)
52.	Proceedings of Regional Workshop on Hill Agriculture in SAARC Member Countries: Constraints & Opportunities
53.	Directory of Ph.D. Dissertations on Agriculture in SAARC Member Countries 2000-2006 Vol. 3, India
54.	SAARC Journal of Agriculture Vol. 8 No.1
55.	SAARC Journal of Agriculture Vol. 8 No.2
56.	SAARC Journal of Agriculture Vol. 7 No.1
57.	SAARC Journal of Agriculture Vol. 7 No.2
58.	Fodder Germplasm in SAARC Member Countries
59.	Status of Integrated Pest Management (IPM) in SAARC Member Countries
60.	SAARC Journal of Agriculture Vol. 6 No.1
61.	SAARC Journal of Agriculture Vol. 6 No. 2
62.	Regional Workshop on Farm Mechanization for Small holders Agriculture in SAARC Member Countries
63.	Directory of Ph.D. Dissertations on Agriculture in SAARC Member Countries 2000-2006 Vol. 2, India
64.	Bibliography of Periodicals Available in SAARC Agriculture Centre Library (2 nd Edition)
65.	Livelihood Development through Agriculture in the Saline Prone Coastal Ecosystem of SAARC Member Countries
66.	Best Practices in Animal Feed Production and Management in SAARC Member Countries
67.	SAARC Journal of Agriculture Vol. 5 No.1
68.	SAARC Journal of Agriculture Vol. 5 No.2

Sl. No.	Title of the Publications
69.	Statistics Data Book for Agricultural Research and Development in SAARC Member Countries
70.	Crop Varieties in SAARC Member Countries
71.	Regional Programme Development in Agriculture Through Consultations
72.	Handbook on Livestock and Poultry Diseases in SAARC Member Countries
73.	Training Manual and Interactive Multimedia CD ROMs on Presentation Technology
74.	Catalogue on Natural Enemies of the Insect Pests Food Crops in SAARC Member Countries
75.	Directory of PhD Dissertations on Agriculture in SAARC Member Countries 2000-06 Vol. 1, Bangladesh
76.	Bibliography of Periodicals Available in SAARC Agriculture Centre Library
77.	Bibliography of Periodicals Available in SAARC Agriculture Centre Library
78.	SAARC Journal of Agriculture Vol. 4 (2006)
79.	Proceedings of the Regional workshop on Research-Extension Linkages for Effective Delivery of Agricultural Technology in SAARC Member Countries
80.	Guide on Medicinal and Aromatic Plants of SAAC Member Countries
81.	SAARC Journal of Agriculture Vol. 3 (2005)
82.	Risk in Agriculture and their Coping Strategies in SAARC Member Countries
83.	Handbook on Fish and Crustacean Diseases in the SAARC Region
84.	Agricultural Scientists and Technologists of SAARC Member Countries: 2nd Edition
85.	Statistical Bulletin of SAARC Agricultural Data-2004
86.	SAARC Journal of Agriculture Vol.2 (2004)
87.	Proceedings of the Regional Workshop on Attempts and Successes of ICT Roadmap to Villages in the SAARC Member Countries
88.	Technologies on Livestock and Fisheries for Poverty Alleviation in SAARC Member Countries
89.	Agricultural Institutions in SAARC Member Countries: 3rd Edition
90.	Statistical Bulletin of SAARC Agricultural Data-2003
91.	Plant Genetic Resources of SAARC Member Countries: Their Conservation and Management
92.	Proceedings of SAARC Workshop on Post harvest Technology
93.	Role of Information and Communication Technologies for Poverty Alleviation through Agricultural Development in SAARC Member Countries

Sl. No.	Title of the Publications
94.	SAARC Directory of Seed Companies/ Entrepreneurs 2003
95.	SAARC Journal of Agriculture Vol.1 (2003)
96.	Statistical Bulletin of SAARC Agricultural Data –2002
97.	Proceedings of SAARC Workshop on Soil Fertility Management for Increasing Productivity in Rice-based Cropping System
98.	Annotated Bibliography on Seed Quality, Production and Preservation in the SAARC Region
99.	Agricultural Research and Extension Systems in SAARC Member Countries
100.	Quarantine and Phytosanitary Laws of SAARC Member Countries
101.	Directory of Agricultural Periodicals of SAARC Member Countries (3rd edition)
102.	Development of Horticulture in SAARC Member Countries
103.	Regional Workshop of Experts in SAARC Member Countries on Transfer of Technology in Agriculture
104.	Agricultural Information Systems and Services in SAARC Member Countries
105.	Union Catalogue of PhD Thesis of SAARC Member Countries
106.	Agricultural Training in SAARC Member Countries
107.	Agricultural Information Needs, Mode, Mechanism and Information Flow in SAARC Member Countries
108.	Bibliography on Technologies for Drought-prone and Salt-affected AEZ in SAARC Member Countries
109.	Success Stories on Transfer of Farm Technology in SAARC Member Countries
110.	Hybrid and High Yielding Crop Varieties in SAARC Member Countries
111.	Innovative Agricultural Technologies in SAARC Member Countries
112.	Agricultural Institutions in SAARC Member Countries: 2nd Edition
113.	Database on Renewable Energy Resources in SAARC Member Countries (1996)
114.	Directory of Agricultural Periodicals of SAARC Member Countries: 2nd Revised Edition
115.	Database on Livestock Production Breeding and Management in SAARC Member Countries
116.	Improved Equipment for the Farm People of the SAARC Region
117.	Annotated Bibliography on Potato in the SAARC Member Countries
118.	Bibliography on Fish Diseases in the SAARC Member Countries
119.	Dynamics of Agricultural Biotechnology: SAARC Bibliographical Database

Sl. No.	Title of the Publications
120.	Postharvest Management in Agriculture SAARC Bibliographical Database
121.	Agricultural Scientists and Technologists of SAARC Member Countries: 1st Edition
122.	Agricultural Institutions in SAARC Member Countries: 1st Edition
123.	Annotated Bibliography on Agroforestry in the SAARC Region
124.	Directory of Agricultural Periodicals of SAARC Member Countries (1st edition)
125.	Women in Agriculture, Gender issues in South Asian Farming
126.	Agricultural Research in SAARC Region: Common challenges and priorities
127.	Mechanization for Sustainable Agricultural Intensification in SAARC Region
128.	Community-based Non-Wood Forest Products Enterprise: A Sustainable Business Model
129.	Pulse Based Recipes for Better Diets and Nutrition
130.	Backyard Poultry Production System in SAARC Member Countries
131.	Sustainable Goat Farming for Livelihood Improvement in South Asia
132.	Water-Energy-Food Nexus: A basis for Sustainable Agricultural Development in SAARC Region
133.	Best Practices of Integrated Plant Nutrition System in SAARC Member Countries
134.	Best Practices of Conservation Agriculture in South Asia
135.	Best Practices of Maize Production Technology in South Asia
136.	Challenges and opportunities in Value Chain of Spices in South Asia
137.	Best Management Practices in Aquaculture; Capacity Building and Policy Development
138.E	Export Promotion and Global Market Access for Agricultural and Food Products
139.F	Farm-made Aqua feeds: Opportunities, Challenges and policy intervention
140.	Monograph of Threatened Fish of South Asia
141.F	Facilitating Microbial Pesticide Use in Agriculture
142.	Agricultural Risk Management for Small Farmers in South Asia
143.	Annual Report 2016

Videos available in SAC Archive

Sl.	Title of the Videos	Name of the File	Short Code
001.	Agricultural Technology Development in Barind in Bangladesh	001_Barind	
002.	Apple Cultivation in Nepal	002_Apple	
003.	Appropriate Farm Mechanization in Bangladesh	003_Farm_Bangladesh	
004.	Bamboo and Its Propagation in Bangladesh	004_Bamboo	https://youtu.be/P3aU1Tkt7gM
005.	Bangladesh Rice Research Institute and Its Success	005_BRRI	
006.	Black Bengal Goats in Bangladesh	006_Goats	https://www.youtube.com/watch?v=dPQN1XzGR3g
007.	Bee keeping in Nepal	007_Bee keeping	
008.	Coffee Cultivation in Nepal	008_Coffee Cultivation	
009.	Community Based Mushroom Management in Bhutan	009_Mushroom_Bhutan	
010.	Compost Production in Sri Lanka	010_Compost	
011.	Current Practice of Sericulture in Bangladesh	011_Sericulture	
012.	Drip Irrigation in Pakistan	012_Drip_Irrigation	https://youtu.be/SEZQhWRPV08
013.	Farm Mechanization in Bhutan	013_Farm_Bhutan	
014.	Floriculture in India and its Prospects	014_Floriculture	
015.	Integrated Pest Management in Nepal	015_IPM_Nepal	
016.	Integrated Pest Management in Sri Lanka	016_IPM_SriLanka	
017.	Jackfruits in Sri Lanka	017_Jackfruits	
018.	Kithul Tree in Sri Lanka	018_Kithul_Tree	
019.	Livestock Development in Bhutan	019_Livestock	
020.	Make Money from Ornamental Plants in Sri Lanka	020_Ornamental_Plants	
021.	Mandarin in Bhutan	021_Mandarin	
022.	Mango Production and Post Harvest Management in Pakistan	022_Mango	
023.	Marvels of Himalayan Herbs - India	023_Marvels	
024.	Milk Production Cooperative System in Nepal	024_Milk_Production	
025.	Milk Testing Method for Hidden Mastitis – Pakistan	025_Milk_Testing	
026.	Multi Operations Machine for Agriculture – Pakistan	026_Machine	

Sl.	Title of the Videos	Name of the File	Short Code
027.	Mushroom Farming Through Artificially Cultured Spawn Production in Nepal	027_Mushroom_Nepal	
028.	Ornamental Fish Breeding and Culture in India	028_Ornamental_Fish	
029.	Ornamental Foliage Plants in Sri Lanka	029_Foliage_Plants	
030.	Biological Control of Helicoverpa armigera in Cotton and Chickpea – India	030_Cotton	
031.	Post-harvest Technology of Major Fruit crops in Sri Lanka	031_Post_Harvest	
032.	Potato Production from True Potato Seed (TPS) - Nepal	032_Potato_TPS	
033.	Poultry Farming for Rural Women in Nepal	033_Poultry	
034.	Rice Cultivation in Sri Lanka (Triumph of Golden Panic)	034_Rice	
035.	Science and Practice of Mushroom Growing in India	035_Mushroom_India	
036.	Seed Production for Better Crops in Nepal	036_Seed_Nepal	
037.	Self Paddy Seed Production in Sri Lanka	037_Seed_SriLanka	
038.	Simple Hydroponics in Sri Lanka	038_Hydroponics	
039.	Sprinkler Irrigation in Pakistan	039_Sprinkler_Irrigation	
040.	The Success Stories of Dairy Development in SAARC Countries (Nepal)	040_Dairy	
041.	Technology of Rubber Cultivation in Sri Lanka	041_Rubber	
042.	Tea Cultivation and Processing in Sri Lanka	042_Tea	
043.	The Success Story of Rinderpest Eradication in Nepal	043_Rinderpest	
044.	Transplanted Sugarcane in Bangladesh	044_Sugarcane	
045.	Triumph of Golden Harvest – Sri Lanka	045_Golden_Harvest	
046.	Upgrading of Milk Production Through Artificially Insemination of Local Cows in Nepal	046_Milk Upgrading	
047.	Virus-free Potato Seed Production Through Tissue Culture in Nepal	047_Virus_free_Potato	
048.	Wheat: From Deficit to Surplus: A Spectacular Story – India	048_Wheat	
049.	Cultivation of Rabi Medicinal Plants – India	049_Medicinal plants	
050.	Higher Income from Cultivation of off-season Vegetables in the Hills – India	050_Vegetables	

Sl.	Title of the Videos	Name of the File	Short Code
051.	Greening the Sea: The Story of Green Mussel Cultivation in India	051_Green Mussel	
052.	Yellow fin Tuna Fishing: Some Glimpses – India	052_Tuna Fishing	
053.	Tea Manufacture (CTC) – Sri Lanka	053_Tea	
054.	New Horizons in Mariculture: Culture of Seabass in open Sea Cage – India	054_ Mariculture	
055.	CMFRI: The Saga Continues – India	055_ Saga Continues	
056.	Farming Jewels from the Sea - India	056_Jewel Farming	
057.	CIFT-The Wave Riders – India	057_ Wave Riders_1 057_ Wave Riders_2	
058.	HACCP in food processing plants - India	058_Food Processing	
059.	The pre-requisite programmes-GMP & SSOP - India	059_ GMP & SSOP	
060.	Wealth from waste-livestock feed from cephalopod processing waste - India	060_ Feed from waste	
061.	Fabrication and maintenance of fishing nets – India	061_Fishing net	
062.	Catfish (Magur) farming – India	062_Catfish farming	
063.	Freshwater prawn hatchery for boosting prawn production – India	063_ Prawn hatchery	
064.	CIFA : gateway of aquaculture - India	064_ Aquaculture	
065.	Poultry Passion in India	065_Poultry	
066.	CPRI in Tune with the Time – India	066_Potato research	
067.	Potato Seed Production in India	067_Potato seed	
068.	ICRISAT helping and poverty through Inclusive Market Oriented Development – India	068_ICRISAT_01	
069.	ICRISAT pigeonpea genome sequence – India	069_ ICRISAT_02	
070.	ICRISAT – NASFAM partnership – India	070_ ICRISAT_03	
071.	Preparation of Vermicompost – India	071_ ICRISAT_04	
072.	Integrated water management- A successful story, Kothapally – India	072_ ICRISAT_05	
073.	Watershed Project Kothapally- Success story - India	073_ ICRISAT_06	
074.	National Research Centre for Agroforestry in service of nation – India	074_Agroforestry	
075.	Documentary on National Resource Conservation through Watershed Development – India	075_Watershed	

Sl.	Title of the Videos	Name of the File	Short Code
076.	Directorate of Wheat Research (DWR) profile – India	076_DWR profile	
077.	RCT for increased wheat production in India	077_RCT wheat	
078.	Honey Bee – Pakistan	078_Honey Bee	
079.	Area Specific Mineral Mixture for improving productivity in animals – India	079_Mineral Mixture	
080.	Improving quality and utilization of poor quality roughages – India	080_Roughages	
081.	Azolla cultivation for livestock feeding – India	081_Azolla	
082.	Complete feed block – India	082_Feed block	
083.	NIANP – Looks Ahead – India	083_NIANP Looks	
084.	Exploiting Mithun: Journey Ahead – India	084_Mithun	
085.	Importance of Weed Management – India	085_Weed Management	
086.	Parthenium Management - India	086_Parthenium	
087.	Threat of Invasive Weeds in India	087_Invasive Weeds	
088.	Directorate of Weed Science Research (DWSR) Profile – India	088_DWSR Profile	
089.	Enlivening the Thar Desert - India	089_Thar Desert	
090.	Jute Reinvented - India	090_Jute Reinvented	
091.	The Jute Non woven in agriculture	091_Jute Non Woven_1 091_Jute Non Woven_2	
092.	Central Plantation Crops Research Institute (CPCRI): For Farmers Prosperity (English) – India	092_CPCRI_1 092_CPCRI_2	
093.	A Tale of Central Tobacco Research Institute (CTRI) – India	093_CTRI_1 093_CTRI_2	
094.	Shrimp culture – India	094_Shrimp	
095.	Mud Crab farming and fattening by women – India	095_Mud Crab	
096.	Fish Food products development and marketing by women self help groups – India	096_Fish Food	
097.	Aqua feed development by women self help groups – India	097_Aqua Feed	
098.	Diversification of livelihoods among the coastal women self help group – India	098_Coastal Women	
099.	Sri Lankan Spices for Better Quality	099_Spices	

Sl.	Title of the Videos	Name of the File	Short Code
100.	Sweet Sorghum- A smart bio fuel Crop – India	100_Sweet Sorghum	
101.	Central Institute of Brackish-water Aquaculture (CIBA) profile and Programs – India	101_CIBA profile	
102.	Cultivation of Rabi Medicinal Plants – India	102_Medicinal Plants	
103.	Herbal wealth of India	103_Herbal wealth	
104.	Good Agricultural and Collection practices of Medicinal Plants – India	104_Medicinal Plants_1 104_Medicinal Plants_2 104_Medicinal Plants_3 104_Medicinal Plants_4 104_Medicinal Plants_5 104_Medicinal Plants_6 104_Medicinal Plants_7 104_Medicinal Plants_8	
105.	Indian Fisheries – a success story	105_Indian Fisheries	
106.	Polythene Film Technology (PFT), ICIMOD - Nepal	106_Polythene	
107.	Sloping Agricultural Land Technology, ICIMOD – Nepal	107_Sloping Land	
108.	Warning Signals from the Apple Valleys, ICIMOD – Nepal	108_Apple Valleys	
109.	ICIMOD Demonstration and Training – Godavari – Nepal	109_Godavari_1 109_Godavari_2	
110.	In the Grip of Drought, ICIMOD – Nepal	110_Drought	
111.	Living with Floods, ICIMOD – Nepal	111_Floods	
112.	Promoting Herbal Gardens in School, ICIMOD – Nepal	112_Herbal Gardens	
113.	Too Much Water; Too Little Water, ICIMOD – Nepal	113_Water	
114.	Documentary on G.B. Agricultural University – India	114_GB University	
115.	Greedy Fish Farmer – India	115_Greedy Fish	
116.	Little Fishes and Tiny Nets – India	116_Tiny Nets	
117.	Environment of Sri Lanka	117_Environment	
118.	Over use of Fertilizers	118_Fertilizers	
119.	Use of Straight Fertilizer – Sri Lanka	119_Straight Fertilizer	
120.	Use of Organic Fertilizer – Sri Lanka	120_Organic Fertilizer	
121.	Compost as a Fertilizer – Sri Lanka	121_Compost Fertilizer	https://youtu.be/jwR6qch3IP0
122.	Large Scale Compost Making – Sri Lanka	122_Compost Making	https://youtu.be/AzPuS6Qed6M
123.	Use of Straw as a Fertilizer – Sri Lanka	123_Straw fertilizer	https://youtu.be/00CBswiM_rw

Sl.	Title of the Videos	Name of the File	Short Code
124.	Use of Azolla as a Fertilizer – Sri Lanka	124_Azolla Fertilizer	https://youtu.be/YQDWRpmwo4A
125.	Beekeeping (part I – VII) – Sri Lanka	125_Beekeeping	https://youtu.be/1uPIVWKMUSU
126.	Runkarale Jaya – Sri Lanka	126_Runkarale	https://youtu.be/hG2Y5eld1BY
127.	Seed Potato Production (from field preparation to vesting) – India	127_Seed potato	https://youtu.be/U1d6QipqMMI
128.	Hybrid Rice Seed Production Technology – India	128_Hybrid rice	https://youtu.be/lqpfH8C7zqE
129.	Integrated Pest Management in Rice – India	129_IPM rice	https://youtu.be/9BWUhlhZhSs
130.	Quality Protein Maize (QPM) for Improved Nutrition – India	130_Maize	https://youtu.be/LTpj-qq1yyA
131.	Cotton Plant by-products and their Utilization – India	131_Cotton	https://youtu.be/hjJsEwnjvQ0
132.	Success Story of IPM in Rainfed Cotton – India	132_IPM cotton	https://youtu.be/fNyxu3MRxQA
133.	Backyard Rearing of Improved Nicobari Fowls for Increased Income – India	133_Nicobari	https://youtu.be/Gzu6YzedIWA
134.	Weed Control in Cropping System – India	134_Weed	https://youtu.be/NzamtX7FgH4
135.	Honey Production for Additional Employment and Income Generation – India	135_Honey	https://youtu.be/R6rI0ePrsyM
136.	Year Round Fodder Production – India	136_Fodder	https://youtu.be/92vivCuFRSg
137.	Fishing Nets Fabrication and Maintenance – India	137_Fishing Nets	https://youtu.be/0FUeCJpbUg
138.	ICAR Shrimp Culture – India	138_Shrimp Culture	https://youtu.be/TYRejE8dk64
139.	Reservoir Fisheries Management – India	139_Fisheries	https://youtu.be/r1DU9NVw4JA
140.	Freshwater Prawn Hatcheries – India	140_Hatcheries	https://youtu.be/MG4Lf-uQFdk
141.	Marine Pearl Culture – India	141_Pearl	https://youtu.be/RIqzIwb1PN8
142.	Catfish Farming – India	142_Catfish	https://youtu.be/dVzB1IzaA3I
143.	Himalayan Mahseer Breeding and Culture – India	143_Fish Breeding	https://youtu.be/BLkmXIANUMY
144.	Animal Health Care – India	144_Animal Health	https://youtu.be/T80hWCF3sZg
145.	Hygienic Meat and Meat Product Processing and Packaging – India	145_Hygienic Meat	https://youtu.be/6AUKVd7ug6c
146.	Hygienic Milk and Milk Product Processing and Packaging – India	146_Hygienic Milk	https://youtu.be/KpoXNbNPZyA
147.	Sheep Rearing for Carpet and Fine Wood Production – India	147_Carpet	https://youtu.be/DA10hgSGG3k
148.	Pig Production – High Focus in North – East Region – India	148_Pig Production	https://youtu.be/yKN-PS7SS_8

Sl.	Title of the Videos	Name of the File	Short Code
149.	Rural Poultry Production for Income and Household Nutritional Security - India	149_Rural Poultry	https://youtu.be/SIRzABCHvKc
150.	Improving Quality and Utilization of Poor Quality Roughages – India	150_Roughages	https://youtu.be/km_1m0j259w
151.	Mineral Mixture for Increased Animal Productivity – India	151_Mineral Mixture	https://youtu.be/Oy0jN46W2OY
152.	Garole Sheep Farming for Increased Income – India	152_Garole Sheep	https://youtu.be/fZHnoiQ0eEE
153.	Vermi-composting using Plantation Material Waste – India	153_Vermi Compost	https://youtu.be/_5NLLyrV8oM
154.	Water Resources Management Under Rainfed Farming Through Community Action – India	154_Water Resources	https://youtu.be/nquh01I3brk
155.	Drainage for Reclamation of Waterlogged Saline Soils – India	155_Waterlogged	https://youtu.be/x33Iue3crc0
156.	Resource Conservation Technologies for Increasing Wheat Production – India	156_Wheat Production	https://youtu.be/x5wGGWUwn0
157.	Construction and Environment Control of Greenhouses – India	157_Greenhouses	https://youtu.be/ADfIvefUL1U
158.	Efficient Use of Water in Agriculture – India	158_Water Use	https://youtu.be/ASS6eEVhrps
159.	Coping with Intermittent Drought Spells – India	159_Drought Spells	https://youtu.be/yIk-BCI_228
160.	Cultivation of Horticultural Crops in Arid Zone – India	160_ Horticulture	https://youtu.be/sJ4Wffzu0jQ
161.	Protected Cultivation of Capsicum and Tomato – India	161_Capsicum	https://youtu.be/HBZVOwCL8ME
162.	Production of Quality Vegetable Seedlings – India	162_Vegetable	https://youtu.be/MyL4Wou6Lz0
163.	Post Harvest Management of Onion And Garlic – India	163_Onion	https://youtu.be/qriW6azpRIw
164.	Reducing Drudgery of Farm Women in Farm Operations – India	164_Farm Women	https://youtu.be/mKWkO71eAqI
165.	Mechanized Sugarcane Production: Save Labour and Earn More – India	165_Sugarcane	https://youtu.be/JYhN1ICIYFo
166.	Meneke Rose Garden – Sri Lanka	166_Meneka	https://youtu.be/Ru-Z6zyrQkY
167.	Vikasitha: Rose Garden – Sri Lanka	167_Vikasitha	https://youtu.be/GnJMuZr4MQs
168.	Protected Agriculture (Vegetable Grower) – Sri Lanka	168_Vegetable	https://youtu.be/AVQnAtJU8ik
169.	Finger Miet Fied story – Sri Lanka	169_Finger Miet	https://youtu.be/_NyUmJOPEAk
170.	Ornamental Leaves – Sri Lanka	170_Ornamental Leaves	https://youtu.be/40gy39focOg

Sl.	Title of the Videos	Name of the File	Short Code
171.	Rathna Papya Vareity – Sri Lanka	171_Rathna Papya	https://youtu.be/HKg1tQc_OhA
172.	Seed Paddy Production – Sri Lanka	172_Seed Paddy	https://youtu.be/a8CYAIAZ-tc
173.	Fluid Bed Tea Drier – Sri Lanka	173_Tea Drier	https://youtu.be/nlqdGYX0wf4
174.	Soil Fertility in Tea – Sri Lanka	174_Soil Fertility	https://youtu.be/P8PeokL2OWM
175.	Harvesting Tea – Sri Lanka	175_Harvesting Tea	https://youtu.be/Vfz-ugYNFsY
176.	Tea Nursery Management – Sri Lanka	176_Tea Nursery	https://youtu.be/hsbI4WMfK5Q
177.	Field Practices in Tea – Sri Lanka	177_Field Tea	https://youtu.be/vh6EqISlDw
178.	Graphs from dumbulla – Sri Lanka	178_Graphs	https://youtu.be/6VhoqvMwOk
179.	Agricultural Light Engineering Program (ALEP) – Pakistan	179_ALEP	https://youtu.be/6lsvQsxIiNw
180.	Introduction of Livestock Production Research Institute – Pakistan	180_Livestock	https://youtu.be/S0uIllfvIPE
181.	Paddy Straw Treatment with Urea – Pakistan	181_Paddy Straw	https://youtu.be/k-Xs_BnrV-Q
182.	Clean and Hygienic Milk Production – Pakistan	182_Hygienic Milk	https://youtu.be/UGVR6BuSFW8
183.	Silage Making – Pakistan	183_Silage Making	https://youtu.be/izSaXJxoRNw
184.	Welcome to NARC – Pakistan	184_NARC	https://youtu.be/69pTK8ONUvQ
185.	Urea Treated Fodder – Pakistan	185_Urea Fodder	https://youtu.be/aDvRI-rOMA4
186.	Livestock Research for Prosperity – Pakistan	186_Livestock	https://youtu.be/33SxGxID21w
187.	Sugarcane – Pakistan	187_Sugarcane	https://youtu.be/Jgisw4cOoTM
188.	Soil Erosion – Pakistan	188_Soil Erosion	https://youtu.be/uLEWUJDjF14
189.	Peach Cultivation – Pakistan	189_Peach Cultivation	https://youtu.be/E7_w3ToXF1U
190.	Buffalo Management – Pakistan	190_Buffalo	https://youtu.be/jO7tnsItBZo
191.	Rice Nursery Growing for Transplantation – Pakistan	191_Rice Nursery	https://youtu.be/8v-V27QABfg
192.	Off Session Vegetables – Pakistan	192_Vegetables	https://youtu.be/Vr9fl3tpvyM
193.	Canola Oil – Pakistan	193_Canola Oil	https://youtu.be/CbEX-7Dtuds
194.	Buffalo: From experts point of view – Pakistan	194_Buffalo	https://youtu.be/GluVXn4nAVc
195.	Wheat: Preparation of land – Pakistan	195_Wheat	https://youtu.be/Es07F2IVLoI
196.	Agricultural Sustainability – Pakistan	196_Agriculture	https://youtu.be/z-pk8VUm6uc
197.	Bio Pesticide – Pakistan	197_Bio Pesticide	https://youtu.be/71ciLPAelhI
198.	Role of Women in Agriculture – Pakistan	198_Women	https://youtu.be/OSxt8Iyy-4o
199.	Mott Grass – Pakistan	199_Mott Grass	https://youtu.be/2ejBiTBwTM
200.	Cotton Virus (Preventive measures) – Pakistan	200_Cotton Virus	https://youtu.be/F-xoZ6esOvQ

Sl.	Title of the Videos	Name of the File	Short Code
201.	Cotton Virus (Research Aspects) – Pakistan	201_Cotton Research	https://youtu.be/A0EFmQmH7-o
202.	Balance Use of Fertilizer – Pakistan	202_Fertilizer	https://youtu.be/p14J0_CNruM
203.	A Video on NWFP Agriculture University – Serving Agriculture – Pakistan	203_NWFP	https://youtu.be/jlOIPDt-w_Q
204.	Manage of Plant Protection on fruit crops in Bhutan	204_Fruit Crop	https://youtu.be/HGks3pMDPj0
205.	National Irrigation Policy – Bhutan	205_Irrigation Policy	https://youtu.be/qZBIBE9sZV0
206.	Citrus Growing in Bhutan	206_Citrus Growing	https://youtu.be/QAM_Qix6uMg
207.	NRTI Participation in the Laya Yak – Bhutan	207_Laya Yak	https://youtu.be/N8wyPVHvMmc
208.	Tree Beatification – India	208_Tree Beatification	https://youtu.be/7BGUF7z0KhW
209.	Humming Honey Maker – India	209_Honey Maker	https://youtu.be/I2yEtIXpSwY
210.	Teak Defoliators – India	210_Teak Defoliators	https://youtu.be/TsN0VJBj-e0
211.	Tea Plantation in India	211_Tea Plantation	https://youtu.be/UJXZmCV1WII
212.	Tissue Culture in Pakistan	212_Tissue Culture	https://youtu.be/v1HynjQp30c
213.	TPS: A New Technology in Pakistan	213_TPS	https://youtu.be/xUbHS0pIuf4
214.	NRCS The Crusader for Success Story of Soybean in India	214_Soybean	https://youtu.be/8jY9kiPBjNI
215.	Cultivation Technology of Button and Oyster Mushroom in India	215_Mushroom	https://youtu.be/9DPPrkLPg9YY
216.	Pruning of Fruit Trees – Pakistan	216_Pruning	https://youtu.be/Vs9SyNNS57Y
217.	Blight Disease and Control in Chickpea – Pakistan	217_Chickpea	https://youtu.be/DBAynpJWi8
218.	Utilization of Salt-Affected Lands in Joint Satiana Pilot – Pakistan	218_Salt Land	https://youtu.be/2EXNDHnzd1I
219.	Method of Raising Eucalyptus Nursery – Pakistan	219_Eucalyptus	https://youtu.be/CbRNggMvqPY
220.	Tea Cultivation – Pakistan	220_Tea Cultivation	https://youtu.be/ZRMf4tX86nU
221.	Cooperative Society: Nakka Kahut – Pakistan	221_Cooperative	https://youtu.be/VLK836VC4y8
222.	Visitors Book: Rational Use of Potash in Pakistan	222_Potash	https://youtu.be/bIm2Tit-ta4
223.	Yak Husbandry – Nepal	223_Yak Husbandry	https://youtu.be/jFPMTrKZwv8
224.	Cane Tech Spot Films – India	224_Cane Tech	https://youtu.be/8Xw3BD8uAhk
225.	Early Planting Sugarcane – India	225_Sugar Plant	https://youtu.be/jhaLXGV9DiE
226.	Sugarcane Seed Nursery Program – India	226_Sugarcane Seed	https://youtu.be/fb0qDdL3HVG
227.	Bio Fertilizer – India	227_Bio Fertilizer	https://youtu.be/uApwPFM8CXw
228.	Participatory Research With Women Farmers (ICRISAT) – India	228_Women Farmers	https://youtu.be/VURwirtEUdo

Sl.	Title of the Videos	Name of the File	Short Code
229.	Hygienic Milk – India (Telecasted by Bangladesh Television)	229_Hygienic Milk	https://youtu.be/izUUksPrBsI
230.	Drip Irrigation – Pakistan (Telecasted by Bangladesh Television)	230_Drip Irrigation	https://youtu.be/gxwVK9sqURo https://youtu.be/2g1z3qyrk1s
231.	Green House Vegetable – India (Telecasted by Bangladesh Television)	231_Vegetable	
232.	Sprinkler Irrigation – Pakistan (Telecasted by Bangladesh Television)	232_Irrigation	https://youtu.be/oSJSgtVeDtA
233.	Maize Production – India (Telecasted by Bangladesh Television)	233_Maize	https://youtu.be/H9_SdELOyxM
234.	Off-Season Vegetable – India (Telecasted by Bangladesh Television)	234_Vegetable	https://youtu.be/swr-6RYanPQ
235.	Potato Seed Production – India (Telecasted by Bangladesh Television)	235_Potato Seed	https://youtu.be/QIc17SlqTEM
236.	Vegetable Seed Production in Nepal	236_Vegetable	https://youtu.be/Z85SDxTu5b4
237.	Trout Fish Culture – Nepal	237_Trout Fish	https://youtu.be/Tln3-PIHcPY
238.	Potato Production from Seed – Nepal	238_Potato Seed	https://youtu.be/frfHzeaipMU
239.	High Hill Horticulture Development – Nepal	239_Hill Horticulture	https://youtu.be/plxL0fZ1A3E
240.	Ginger Drying Technology - Nepal	240_Ginger	https://youtu.be/IE_fUZhXKsw
241.	Embryo Transfer in cows – India	241_Embryo	https://youtu.be/3JNRXL6geBI
242.	Neem: An analysis – India	242_Neem	https://youtu.be/NjpMS3ojxoY
243.	Azolla – India	243_Azolla	https://youtu.be/M3I13wHvXQg
244.	Thanjayur wilt diseases of Coconut Tree – India	244_Thanjayur	https://youtu.be/3c_OAoDZ78I
245.	Neem in Insect Control – India	245_Neem	https://youtu.be/c6Wud7NAV70
246.	Tamil Nadu Prosperity Through Agricultural Biotechnology – India	246_Biotechnology	https://youtu.be/rlgMorm7wF0
247.	About TNAU – India	247_TNAU	https://youtu.be/63xNrflhvUA
248.	Soybean Cultivation – India	248_Soybean	https://youtu.be/I3G2_H9txM0
249.	Bamboo: A crop – India	249_Bamboo	https://youtu.be/OejWSnUweFI
250.	Improving Women Through Social Engineering (CIRDAP) – India	250_Inprove Women	https://youtu.be/vQA8AeCmGSE

SAC Website

www.sac.org.bd is the key interface for establishing the regional agricultural information networking among SAARC Member Countries. It would provide scope for direct interactions with clients through options on information sharing of institutions, discussion forum and updating information on technological advances and issues on key agenda in the field of agriculture, livestock, fisheries, natural resources, research, development, etc. The website is an interactive website with dynamic features and programmes to provide the latest content and information. Most of the dynamic information services are based on the databases. Appropriate search forms and input forms are created to retrieve and update the databases.



Upgrade Dedicated Full Duplex Internet Connectivity

SAARC Agriculture Centre (SAC) has upgraded 2.5 Mbps to 10 Mbps Dedicated Full Duplex Broadband Internet Connection through underground optical fibre and one backup connection through overhead optical fibre from 01st January 2015.

Purchase Country Domain (www.sac.org.bd) and unlimited server space

SAARC Agriculture Centre (SAC) purchased Country Domain (www.sac.org.bd) from Bangladesh Telecommunications Company Ltd. and purchased unlimited server space from HostGator for uploading SAC Website and Archive.

Change Web Portal of SAARC Agriculture Centre

SAARC Agriculture Centre designs and uploaded a new web portal. The new Uniform Resource Locator (URL) is www.sac.org.bd

SAC created Video Conferencing Facility

SAARC Agriculture Centre (SAC) created a unique video conferencing facility in SAARC. The different regional consultation meetings were conducted through video conference with focal point experts of the Member Countries in 2017.

Successful Agricultural Technology Dissemination in SAARC Member Countries

Audio-visual on agro-technology

The centre produces audio-visual materials and also collects AV materials on agro-technologies from member countries and other sources for wider distribution. The SAC has established a depository Video Lab of Video films on agriculture technologies developed and disseminated by the Pioneer Agricultural Institutions/Organizations and Universities of SAARC Member Countries. The centre has a collection of 370 video films, on agricultural technologies out of which 314 were collected from SAARC Member Countries, 48 were produced and dubbed respectively at the SAC. The SAC has a collection of 75 video films.

New documentations in SAC Library 2017

Sl. N.	Title / Place of Publication
01	Agricultural Revolution: Vision for Future by Dr. K P Wasnik, A P H Publishing Corporation, New Delhi, 2016
02	Nature Conservation by A K Srivastava, A P H Publishing Corporation, New Delhi, 2016.
03	Farm Machinery and Power by Shagufta, A P H Publishing Corporation, New Delhi, 2013.
04	Handbook of Poultry Diseases by Naresh Mahajan, Venus Books, New Delhi, 2014.
05	Fish Nutrition and Feed Technology: A Teaching Manual by S. Athithan, N. Felix & N. Venkatasamy, Daya Publishing House, New Delhi, 2012.
06	Seed Borne Diseases: Ecofriendly Management by Brindra Chauhan, Random Publications, New Delhi, 2015.
07	Agricultural Process Engineering by Ajay Mehta, Venus Books, New Delhi, 2014.
08	Biodiversity and Environment by S K Agarwal, Swarnlata Tiwari & P S Dubey, A P H Publishing Corporation, New Delhi, 2015.
09	Geographic Information System by Shagufta, A P H Publishing Corporation, New Delhi, 2013.
10	Fisheries, Aquaculture and Biotechnology by Shagufta, A P H Publishing Corporation, New Delhi, 2012.
11	The Works of Akhter Hameed Khan, Vol. (1) Development of a Rural Community, Vol. (11) Rural Development Approaches and The Comilla Model, Vol. (111) Rural Works and The Comilla Cooperative by Bangladesh Academy for Rural Development, Comilla, 2016.
12	Fisheries Science by Prof. Susanta Kumar Paul and Prof. Gulshan Ara Latif, Monika, Gurudaspur, Natore, April, 2017.
13	Gender in Agriculture; Closing the Knowledge Gap edited by Agnes R. Quisumbing....(et al.), The Food and Agriculture Organization of the United Nation and Springer, 2014.
14	Natural Resource Conservation by Prof. P R Trivedi, A P H Publishing Corporation, New Delhi, 2016.
15	Trends and Techniques of Horticulture by Shagufta, A P H Publishing Corporation, New Delhi, 2012.
16	Gender, Environment & Sustainable Development by Dr. Sucheta Naik, A P H Publishing Corporation, New Delhi, 2017.
17	Agricultural Finance and Management by Vikram Sharma, Venus Books, New Delhi, 2014.

Sl. N.	Title / Place of Publication
18	Modern Dairy Management, compiled and edited by Dr. Ash Utosh...et al, National Dairy Research Institute, Karnal, India.
19	Environmental Education and Sustainable Development by S R Singh, A P H Publishing Corporation, New Delhi, 2016.
20	Fungi, Bacteria and Viruses by H C Dube, Agrobios (India), 2012.
21	Agricultural Transformation: Concepts and Country Perspectives by Subir Ghosh, The Icfai University Press, Tripura (West), India, 2012.
22	Agriculture and Food by A K Shrivastava, A P H Publishing Corporation, New Delhi, 2017
23	Land, Soil and Water Resources by Mahendra Kamalvanshi, Random Publications, New Delhi, 2015.
24	Sustainable Development; A Discourse in Sociology of Irrigation by K Gulam Dasthagir, A P H Publishing Corporation, New Delhi, 2016.
25	Agriculture Meteorology by Dr. Parmeshwar Singh, Random Publications, New Delhi, 2015.
26	Poultry Husbandry by Divyesh Pandey, Venus Books, New Delhi, 2014.
27	Proceedings of the Third OIE Global Conference on Aquatic Animal Health Riding the Wave to the Future' 20-22 January 2015 by World Organization for Animal health, Vietnam.
28	Managing Poor Quality Water for Sustaining Agriculture , edited by H S Jat.....et al, Central Soil Salinity Research Institute, Karna, India, 2011.
29	Terrest Animal Health Code, Vol. 1 (General provisions) 2015 by World Organization for Animal health, Vietnam.
30	Statistical Year Book Bangladesh 2016 (36th Edition) by Bangladesh Bureau of Statistics (BBS), Govt. of the Peoples Republic of Bangladesh, May 2017.
31	Bangladesh Economic Review 2016 by Finance Division, Ministry of Finance, Govt. of the People's Republic of Bangladesh, November 2016.
32	Agroforestry Technologies for Different Agro-climatic Zones of the Country by O. P. Chaturvedi.....et. all, ICAR-Central Agroforestry Research Institute, Jhansi-284003 (UP), 2016.
33	Advances in Protected Cultivation edited by Brahma Singh...et. all, New India Publishing Agency, New Delhi, 2014.
34	Irrigation Technology; Theory and Practice by Amalendu Bhattacharya, Venus Books, New Delhi, 2014.
35	Genetic Engineering in Agriculture Horticulture and Forestry by Dr. Arvind Kumar, Venus Books, New Delhi, 2015.
36	Water and Waste Water by Sr. Krishna Gopal, A P H Publishing Corporation, New Delhi, 2013.
37	Fruit and Vegetable Products by Shagufta, A P H Publishing Corporation, New Delhi, 2012.
38	Assessing the Social Impact of Development Projects; Experience in India and other Asian Countries by Mohan Mathur (editor), Springer International Oublishing, Switzerland, 2016.
39	Environment and Agriculture by Prof. Arvind Kumar, A P H Publishing Corporation, New Delhi, 2016.
40	Agricultural Development by Md. Rais Ahmad, A P H Publishing Corporation, New Delhi, 2014.
41	Scientific Horticulture by Abhishek Guneta, Venus Books, New Delhi, 2014.
42	Environmental Toxicology by Patrick H Ngozi, Random Exports, New Delhi, 2013.

TEEAL

In 2017, a total of 55 requests were received from users in Bangladesh and Texas, Dallas in response, the centre sent out 50,550.00 abstracts and TEEAL Search 35 through e-mail as follows:

Sl No	Country	No. of Abstracts
01	Bangladesh	45950.00
02	Texas, Dallas	4600.00
		Total - 50,550.00

SAC provided CAB Abstract to the users from 2009-2016

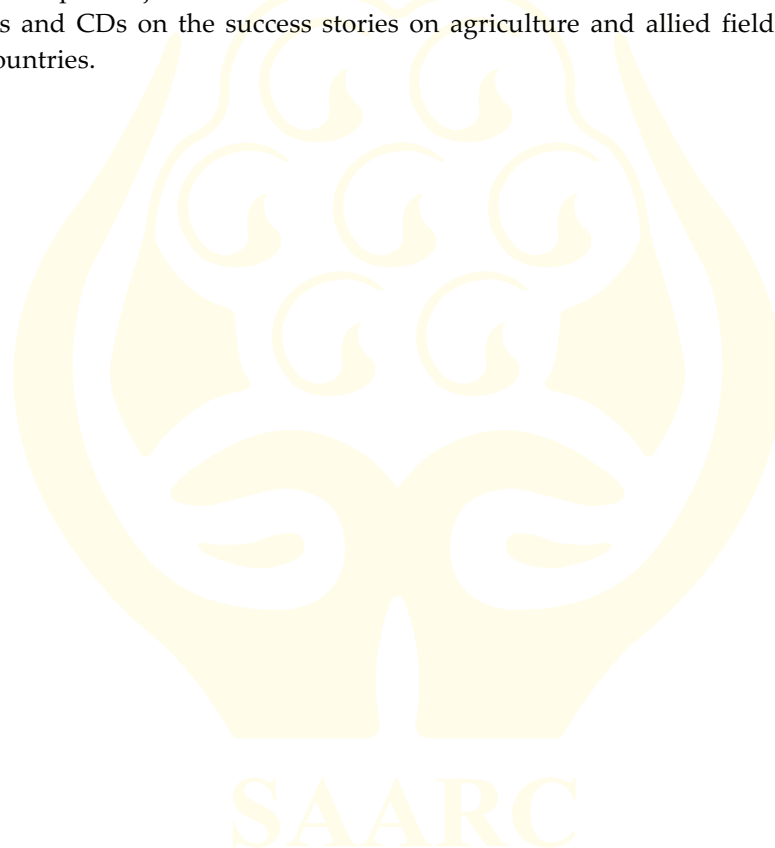
Country	2009	2010	2011	2012	2013	2014	2015	2016
Afghanistan								
Bangladesh	104368	211867	173554	138766	1023371	117934	54018	45,950
Bhutan	420							-
India	28		324	610	597	281	404	-
Maldives								-
Nepal								-
Pakistan			1143	7863	1032	755		-
Sri Lanka		2443	5	150				-
China		812	2857					-
USA				2901				-
Texas, Dallas								4600
Total	104816	215122	177883	150290	1025000	118970	54422	50,550

SAC Provides ABIS through e-mail

SAARC Agriculture Centre has been providing Agricultural Bibliographic Information Service (ABIS) on different CD-ROM database. The following CD-ROM databases are available with SAC: CROP CD (2007/07), HORT CD (2008/06), VET CD (2003/11), PLANT GENE CD (2008/08), SOIL CD (2007/04), PARASITE CD (2005/07), FSTA (2007/10), CAB ABSTRACT (2005/11), TREE CD (2004/10), FOREST SCIENCE CD (2008/07), ANIMAL PROD. CD (2008/11), VETEARINARY CD (2008/8), AGRICOLA CD (2007/6) is also subscribed for renewal. ABIS can be availed through request to sac.cdrom@gmail.com addressing the Director, SAC. The information seeker should mention the keywords, title of CD-ROM database and the range of years for which references are needed.

SAC Corners in Agricultural Libraries in Bangladesh

SAARC Agriculture Centre (SAC) has opened its corners at various libraries of Agricultural Institutions such as Bangladesh Jute Research Institute (BJRI), Bangladesh Agricultural Research Institute (BARI), Bangladesh Rice Research Institute (BRRI), Sher-e-Bangla Agricultural University (SAU), Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Bangladesh Agricultural University (BAU) and finally at Krishibid Institution, Bangladesh (KIB) for sharing information with all students, scientists, stakeholders. Users can find out easily his/her desired SAC publications, reports, journals, newsletters, bulletin, data books, seminar/workshop proceedings and CDs on the success stories on agriculture and allied fields of SAARC Member Countries.





CAPACITY DEVELOPMENT PROGRAM

SAC Team visited CIAE, IISS and ISC at Bhopal & Bengaluru, India for SAARC Program Development

Dr. SM Bokhtiar, Director and Dr. Tayan Raj Gurung, SPS (NRM), SAC visited the following institutions during 2-3 August 2017 In NASC, New Delhi, India with the objective program development.

Central Institute of Agricultural Engineering (CIAE), ICAR, Bhopal

A detail discussed the outline, content and the format for the training on IPNS for soil health and crop productivity. The following issues were discussed and agreed:

- Organize a 2 week Regional Training on IPNS in April 2018, the proposal will be finalized by Dr. TR Gurung and Dr. Pradip Dey;
- Establish a regional network of Soil Science Research institutes for exchange of information and knowledge.

Indian Institute of Soil Sciences (IISS), ICAR, Bhopal

Meeting with Director, Central Institute of Agriculture Engineering, Bhopal – discussed about the possibility for SAC and CIAE collaboration on sustainable agricultural engineering. The Following issues were discussed and agreed:

- Participate in the Seminar and exhibition of agricultural machineries in December 2017 in Dhaka;
- Participate in development of Book on Agricultural Mechanization;
- Organize a week long training on farm mechanization for small holder farmers in SAARC Region in April 2018 in CIAE;
- Develop and submit a project of agricultural mechanization.

International Sericultural Commission, Bengaluru

A meeting held with Mr. KK Shetty and ISC officials in Central Silk Board to discuss about the sericulture development project in India, Bangladesh and Nepal. The following were discussed and decided:

- In two weeks the concept paper on the project will be finalized and submitted to the SAC-GB, PC and SAMM;
- The project formulation meeting will be organized in SAC-Dhaka as soon as the concept is approved



Meeting with Dr. Patra, Director, IISS, Bhopal and Scientists



Meeting with Dr. KK Singh, Director, CIAE and Heads of Department of CIAE.



Dr. Dayananda, Sericulture Scientist explaining the activities of P4 Farm in Hasan

SAC Technical Staffs Participated in Training

Md. Nure Alam Siddiky, Senior Program Officer (Livestock) and Ms. Fatema Nasrin Jahan, Senior Program Officer (NRM) participated in the training program on “Stata and Applied Statistics” at Institute of Statistical Research and Training (ISRT), University of Dhaka on 1-30 March, 2017. The training was sponsored by SAARC-FAO Technical co-operation project on “Strengthening the Capacity of SAARC in the Development, Coordination and Monitoring of a Regional Food Security and Nutrition Framework, Strategies and Programs”.

SAC Team Visited NARC and IRRI, Nepal for SAC Program Development

Dr. SM Bokhtiar, Director, SAC and Dr. Tayan Raj Gurung, SPS (NRM), SAC, Dr. Pradyumna Raj Pandey, SPS (Crops) and Dr. Md. Younus Ali, STO visited the following institutions on 17 December, 2017 in Nepal with the objective; to share SAC activities, future collaboration work and program development.



Meeting between ED, NARC and SAC Team



Director Hand over SAC publications to ED, NARC

Nepal Agricultural Research Council

Before the presentation of SAC, ED NARC made welcome remarks to SAC Team and other distinguished guests in the meeting. Dr. Pradyumna Raj Pandey Gave a presentation on “Overview of SAARC Agriculture Centre (SAC)” in the meeting. The detail discuss were made for future collaboration work with NARC. The following issues were discussed and agreed:

- Make joint agreement to exchange germplasms by involving three or four Member States of SAARC as requested of ED NARC;
- Establish a regional network of Nepal Agriculture Research Council for exchange of information and knowledge;
- Execute MOU between the BARC/ SAC and NARC proposed by Director SAC to exchange proven technology and information;

- Strengthening cooperation in terms of submission of article to SAC Journal in the future and Director welcomed in the meeting to submit paper to SAC Journal again.

International Rice Research Institute (IRRI)

Meeting with Director, International Rice Research Institute – discussed about the possibility for SAC and IRRI collaboration on sustainable agricultural in the region. Dr. Shaba Prasad Tripathi, Senior Associate Scientist gave a presentation focusing on IRRI's activities in Nepal. The Following issues were discussed and agreed:

- Discuss with IRRI about climate resilient rice varieties in Nepal;
- Establish a regional network of IRRI for exchange of information and knowledge.



A view of the Meeting with IRRI

Meeting with SAC-Winrock- IFPRI

A meeting was held on 25 January 2017 between the SAC-Winrock-IFPRI in the conference room of SAARC Agriculture Centre (SAC). Director and Professionals of the Centre attended the meeting. Dr. Avinash Kishore, Research Fellow, International Food Policy Research Institute (IFPRI), Rob turner, Director, Sarah Smiley, Regional Policy Manager and Engr. Maksudur Rahman, Bangladesh Country Co-ordinator from Winrock International were present in the meeting. Winrock and IFPRI have shown their keen interests for collaborative program on Horticulture and Agriculture with SAC in future.

Debriefing Meeting of Reconnaissance Study on Sericulture Research and Development in Bangladesh

As part of MoU between the SAC & ISC and interest shown by the Government of the People's Republic of Bangladesh, ISC deputed 3 (three) volunteer experts namely Dr. S. Nirmal Kumar, Formar Director, CSRTI, Berhampur, West Bengal, India, Dr. B.S. Angadi, Former Director (Tech), Central Silk Board, Bengaluru, India and Dr. M. Siva Kumar, Former Principal, Engineering College, Chennai, India to Bangladesh during a period of 10 days from 15-23 January 2017 to conduct a study. Bangladesh Sericulture

Development Board (BSDB) conducted this visit of the foreign delegates. Different interactions with Scientists of Bangladesh Sericulture Research and Training Institute, Stake holders, NGOs are made during this visit.



After completion of all the visits, a debriefing meeting was held on 22nd January at Bangladesh Agriculture Research Council (BARC) where Mr. Shubhashish Bose, Secretary in charge, Ministry of Textiles and Jute, Government of the People's Republic of Bangladesh graced as the Chief Guest. Dr. Mohammad Jalal Uddin, Executive Chairman, BARC chaired the meeting. On the behalf of the team, a detailed presentation was made by Dr. B.S. Angadi, ISC volunteer expert, about the findings of the team along with some recommendations for the development of Bangladesh sericulture.

Attend Seminar/Workshop/Field Visit

- Dr. P. R. Pandey, Senior Program Specialist (Crops) attended the Tenth South Asia Economic Summit (SAES X) "Deepening Economic Integration for Inclusive and Sustainable Development in South Asia" on 14-16 November 2017, Kathmandu, Nepal.
- Dr W.A.R.T. Wickramaarachchi, Senior Program Specialist (Priority Setting and Program Development) attended the "Symposium of exchange and cooperation to enhancing innovation for agricultural science and technology in South and Southeast Asia" on 12-14 June 2017 held in Bangkok, Thailand.
- Dr. S.M. Bokhtiar, Director, SAC attended the 53rd Programming Committee Meeting of SAARC on 01-02 February 2017 at SAARC Secretariat, Kathmandu, Nepal
- Dr. S.M. Bokhtiar, Director, SAC attended the 54th Programming Committee Meeting of SAARC on 12-13 December 2017 at SAARC Secretariat, Kathmandu, Nepal.
- Dr. S. M. Bokhtair, Dr. Tayan Raj Gurung, Dr. Pradyumna Raj Pandey and Dr. Younus Ali, SAC participated the South-South Co-operation Forum in South Asia Program on 14- 16 December 2017 at Park Village Hotel, Kathmandu, Nepal.
- Dr. Md. Nure Alam Siddiky, Senior Program Officer (Livestock) participated in back back 3rd Global Framework for Trans-boundary Animal Diseases (GF-TAD) and 6th Chief Veterinary Officer (CVOs) meeting in Thimphu, Bhutan on 8-10 May 2017.

- Dr. S.M. Bokhtiar, Director, SAC attended the CGIAR Research Program on CCAFS partners meeting and workshop on “ Climate –Smart Agriculture in Aisa: Beyond pilot evaluations and models” on 20-23 November 2017 in Hanoi, Vietnam.
- Dr. S.M. Bokhtiar, Director, SAC, participated a workshop on “ 3rd Review and Planning Meeting of Sustainable and Resilient Farming System Intensification (SRFSI) in the Eastern Gangetic Plains at RDRS, Bangladesh on 10-13 September 2017.
- Dr. S.M. Bokhtiar, Dr. Tayan Raj Gurung and Dr. Pradyumna Raj Pandey, SAC attended a field visit on Pumpkin Carnival Celebration organized by the Practical Action Bangladesh on 16th April 2017 in Rangpur of Bangladesh.

MoU under processing

- International Livestock Research Institute (ILRI)
- Yunnan Academy of Agricultural Sciences (YAAS)
- The World Vegetable Center (WorldVeg), previously known as the Asian Vegetable Research and Development Center (AVRDC)
- Intern Postgraduate Institute of Agriculture, University of Peradeniya (UoP-PGIA)
- International Food Policy Research Institute (IFPRI)
- Indian Council for Agriculture Research (ICAR)

International Collaborations

SAC is being working with the following international organizations on thrust areas in agriculture in South Asia

- International Rice Research Institute (IRRI)
- Centre on Integrated Rural Development for Asia and the Pacific (CIRDAP)
- World Agro-forestry Centre (WAC)
- Food and Agriculture Organization (FAO)
- International Centre for Integrated Mountain Development (ICIMOD)
- International Food Policy Research Institute (IFPRI)
- International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)
- International Sericulture Commission (ISC)
- SAARC Development Fund (SDF)
- Asia-Pacific Association of Agricultural Research Institutes (APAARI)
- Global Forum on Agricultural Research (GFAR)
- International Livestock Research Institute (ILRI)
- International Maize and Wheat Improvement Centre (CIMMYT)



New Technical Staff joined in 2017



Dr. Md. Younus Ali joined in SAC as Senior Technical Officer on 1st August 2017. Prior to joining in SAC, he was Head of Training, USAID Agricultural Extension Project under the organization of DAM at Project Office, Banani, Dhaka. He awarded PhD in Poultry Science from the Department of Animal Husbandry & Veterinary Science of Rajshahi University. He obtained MS in Dairy Science from Bangladesh Agricultural University (BAU), Mymensingh. He did his Bachelor of Science (Hons.) from BAU, Mymensingh. He published around 19 (Nineteen) research articles in National and International reputed Journals. In his professional carrier he worked in Concern Worldwide, ADSL, PKSF, Proshika and ESDO in diverse area. He has lot of experiences to work with various donor organizations like ADB, DANIDA, IFAD, USAID, IFC, Irish Aid etc.

SAARC

Financial Report

Fund

Two types of budgets are prepared for each fiscal year: Institutional and Program Cost budgets. In implementing the programs, the Centre aims to maintain a balance of expenditure between the institutional and Program costs.

The Institutional and the Program costs are shared by all the SAARC member countries according to the SAARC proportion formula.

As the host, the Government of Bangladesh provides capital costs and other infrastructure facilities. The capital cost support such as accommodation, furniture, vehicles, equipment etc. is proposed on an occasional basis based on requirements.

The shares of contribution for each SAARC country are as follows:

Name of Countries	Institutional Cost share	Program cost share
Afghanistan	3.09%	5.26%
Bangladesh	47.87%	11.28%
Bhutan	3.09%	5.26%
India	18.76%	31.92%
Maldives	US \$ 500 (Fixed)	0.00%
Nepal	6.63%	11.28%
Pakistan	13.93%	23.72%
Sri Lanka	6.63%	11.28%
Total:	100%	100%

Statement of Expenditure for the year of 2017

A) Institutional Cost:

Figure in US\$

Sl. No	Head of Accounts	Amount US\$
1.	Allowances to Director and other Professional Staffs	101,174.44
2.	Salaries and allowances to GS Officers and Staff	184,537.05
3.	Printing, Stationeries and Reproduction	3,463.02
4.	Travel Cost and Perdiem	2,150.31
5.	Utilities Services and Maintenance	33,538.08
6.	Local Hospitality for Governing Board, Selection Committee meetings	7,599.29
7.	Vehicles Generator Lift, AC etc. POL, Insurance, Repairs etc.	18,705.97
8.	Contingencies	24,634.43
	A) Total of Institutional Cost:	375,802.59

B) Program Cost:**Figure in US\$**

Sl. No	Head of Accounts	Amount US\$
1.	SAARC Journal of Agriculture	2,909.98
2.	In-house Res. & Pub. on Trust Areas in SAARC	22,005.33
3.	Observance of SAARC Charter Day	1,113.43
4.	Capacity Building & Prof. Development	3,838.74
5.	Prog. Building, Monitoring & Backstopping	5,211.86
6.	Acqui. of Info. Materials in Agri. From SA &	7,970.70
7.	ICT Mediated Communication	7,307.38
8.	Distribution of Information Materials	2,274.75
9.	Rep. of Info. Materials AV & Dubbing	36.83
10.	Promotional Activities on SAARC Agric. Centre	127.50
11.	Internship, Exch. Visit, Expo. Visit, Gra. Res.	8,210.21
12.	SAARC Agriculture Archive	73.35
13.	Rev. High Yielding Dairy Buffalo Breed Development in SAARC	4,787.50
14.	Regional training on sericulture industry	485.85
15.	Conservation agriculture in SAARC (Exp. Consultation Meeting)	15,281.38
16.	Scaling-up proven tech. for maize imp. th. Participat. approach in SA (Video con.)	3,132.62
17.	Technological sharing of spice crops in SAARC (Reg. exp. consul. meeting)	18,127.50
18.	SAARC outlook on food losses and waste in SAARC	815.92
19.	Goat farming livelihood improvement of rural small farmers in SAARC	18,957.99
20.	Backyard poultry production systems in SAARC (Video conference)	2,836.43
21.	Field epidemiology training program for the veterinarian (FETPV)	19,915.60
22.	Reg. consul./workshop on farm made feed for sustain. aqua. dev. in SAARC	18,928.47
23.	Best manage. prac. for the aqua. of commercially imp. fin fishes in SAARC	19,559.73

Sl. No	Head of Accounts	Amount US\$
24.	Monograph on endangered fish species in South Asian Region	9,064.01
25.	SAARC reg.exp.con.meet.on water, food energy nex.:a basis for sus.agri. dev.	1,6791.57
26.	Dev. of SAARC reg. proj. on commu.-based non-wood forest prod. enter.: A sus.busi.model	16,706.23
27.	Forging SAC-CGIAR partnership for agri. research and dev. in South Asia	23,503.09
28.	Best prac. of integrated plant nutrient management system (IPNS) in SAARC	16,827.25
29.	Regional workshop on risk management for small farmers	17,729.81
30.	Reg. workshop on exp. promo. and market access for agri. food prod. in major gl. markets	18,328.57
31.	Regional expert consul. meeting on facilitating use of micro. pesti. in SAARC	20,199.82
32.	Miscellaneous/Incidental Charges	259.31
	B) Total of Programme Cost:	323,318.71
	Total Institutional and Programme Cost (A+B)	699,121.30
	C) SAARC-FAO Project	58,645.67
	D) International Year of Pulses 2016	3687.87
	E) Capital Cost	192,576.42
Grand Total (A+B+C+D+E)		954,031.26

SAARC

Audit Certificate

The Director
SAARC Agriculture Centre
Dhaka, Bangladesh

Subject: Joint Audit Report on the Accounts and Operations of the SAARC Agriculture Centre (SAC), Dhaka for the period 1st January 2017 to 31st December 2017

Dear Sir,

Enclosed please find Joint Audit Report on the Accounts and Operations of the SAARC Agriculture Centre (SAC), Dhaka for the period 1st January 2017 to 31st December 2017. We conducted our audit in accordance with the International Standards of Supreme Audit Institutions (ISSAIs). The Audit Report consists of the following four parts:

Part I: Auditors' Report on the Statement of Receipts & Payments of the SAARC Agriculture Centre for the period from 1st January 2017 to 31st December 2017;

Part II: Management Letter including Observations and Recommendations;

Part III: Follow-up of the Joint Audit Team (JAT 16) Recommendations; and

Part IV: Brief Profile of the SAARC Agriculture Centre (SAC).

We would like to take this opportunity to extend our thanks to the Director and Staff of the Centre for cooperation and assistance extended to us. This indeed was instrumental in facilitating the timely completion of audit.

Yours sincerely,

(Mr. Krishna Prasad Paudel)
Director
Office of the Auditor
General
Kathmandu, Nepal

(Ms. Shereen Akhtar)
Deputy Controller General of
Accounts
Office of the Auditor
Islamabad, Pakistan

(Mr. Fateh Muhammad Qureshi)
Director
Office of the Auditor General of
Pakistan
Islamabad, Pakistan

Joint Audit Team

Dhaka, Bangladesh
26 February 2018

SAC Governing Board

The Governing Board (GB) is the apex body to supervise functions of the Centre. The GB is composed of eminent personalities in the field of agriculture from each member countries. The GB analyses the policy matters, approves the projects, recommends the annual budget estimates, monitors and evaluates the administrative and overall operations of SAC. A Chairman designated for a two-year term from the member countries by alphabetical rotation heads the Board. The GB meets usually once in a year and may meet more frequently if necessary. A representative of the SAARC Secretariat also attends the GB meeting. The Proceedings of the GB meetings need to be approved by the Standing Committee and the Council of Ministers.

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SAC Team

No.	Name	Designation
1	Dr. S.M. Bokhtiar	Director
2	Dr. Tayan Raj Gurung	Senior Program Specialist (NRM)
3	Dr. Shiba Shankar Giri	Senior Program Specialist (Fisheries)
4	Dr. W.A.R.T. Wickramaarachchi	Senior Program Specialist (PSPD)
5	Dr. Pradyumna Raj Pandey	Senior Program Specialist (Crops)
6	Mr. Mohammad Abdullah	Senior Program Officer (Publication)
7	Mr. Md. Nure Alam Siddiky	Senior Program Officer (Livestock)
8	Ms. Fatema Nasrin Jahan	Senior Program Officer (NRM)
9	Dr. Md. Younus Ali	Senior Technical Officer
10	Mr. Md. Saifur Rahman	Administrative Officer
11	Mr. Md. Mizanur Rahman	IT Manager (Database)
12	Mr. Mizanur Rahman	Personal Officer to Director
13	Mr. Md. Abdul Kadir	IT Manager (Software)
14	Mr. ATM Mostafizur Rahman Mojumder	Senior Finance Officer
15	Mr. Md. Nurul Wara	Program Assistant
16	Mrs. Nazmoon Nahar	Cataloguer
17	Mr. Md. Nurul Amin	Driver
18	Mr. Md. Rafiqul Islam	Driver
19	Mr. Md. Shahidul Alam Khan	Lift-cum-Gen. Operator
20	Mr. Md. Ruhul Amin Sarder	Driver
21	Mr. Md. Harun-or-Rashid	Messenger
22	Mr. Md. Helal Uddin	Messenger
23	Mr. Md. Akhter Hossain	Watchman
24	Mr. Md. Altaf Hossain	MLSS
25	Mr. Md. Abu Taher	Janitor
26	Mr. Md. Ashraful Alam	MLSS
27	Mr. Md. Altaf Hossain	MLSS
28	Mr. Md. Abu Taher	Janitor

SPECIAL DAYS CELEBRATIONS

SAC Celebrated 33rd SAARC Charter Day & Organized Exhibition cum Regional Seminar on Agricultural Mechanization

The SAARC Agriculture Centre (SAC), Dhaka, Bangladesh in commemoration to the 33rd SAARC Charter Day and organized an Exhibition cum Regional Seminar on Agricultural Mechanization for Sustainable Intensification of Agriculture on 10th December 2017 at BARC, Farmgate, Dhaka. The Charter Day celebrated with several important events like flags hoisting, release of pigeons and balloons, seminar, exhibition and release of the books published by SAC. The exhibition and morning session seminar was inaugurated by Mr. AHM Mustafa Kamal, MP, Hon'ble Minister, Ministry of Planning, Government of the People's Republic of Bangladesh as the Chief Guest. Dr. Bhagya Rani Banik, Executive Chairman, Bangladesh Agricultural Research Council was present as a Special Guest. Mr. Mohammad Nazmul Islam, Additional Secretary, Ministry of Agriculture, Government of the People's Republic of Bangladesh presided over the session. Dr. S. M. Bokhtiar, Director, SAARC Agriculture Centre (SAC) offered welcome remarks all dignitaries, guests and participants in the morning session of the seminar. A number of officials from NARS Institutions, BARC, FAO, Practical Action, WINROCK International, Action Aid, Asian Farmer Association, DAE, BADDC, World Fish, IRRI, CIMMYT, CIRDAP, KGF who have been intimately working with SAC were also present as special invitees. Moreover, Ten (10) institutions (DAE, BARI, BRRI, BJRI, BSRI, CYMMIT, IRRI, Janat Engineering, Alim Industries and ACI) were participated in the Exhibition on Agricultural Mechanization.

Hon'ble Minister remarked in the inaugural session that Bangladesh could not achieved in the first position for producing of Agricultural products due to reluctant use of technology of the farmers as well as disorganized marketing system. He also highlighted some policies in the agricultural sector need to be changed considering existing constraints of the sector that will be helpful to the farmer's benefit. In the technical session-1, there are four papers presented on "Agricultural Mechanization for Sustainable Intensification of Agriculture by the different speakers from home and abroad. The titles of the presentation were as follows:

- Agricultural Mechanization: R&D in BD, presented by Dr. Sultan Ahmmed, MD (NRM), BARC;
- Mechanization Trend in SAARC region, presented by Dr. Prem Shanker Tiwari, Head CIAE, India;
- Conservation Agriculture (CA) Through Farm Mechanization made by Dr. A.D. (Jack) McHugh, Senior Scientist, Sustainable Intensification Program, CIMMYT;
- Agricultural Mechanization Initiatives in Bangladesh delivered by Mr. Sheikh Md. Nazimuddin, Project Director, Farm mechanization Project, DAE.
- Business Model for sustainable Agricultural Mechanization in South Asia, presented by Dr. FH Ansarey, Managing Director & CEO, ACI Agribusiness, Dhaka, Bangladesh.

The chairman of the technical session was Dr. Wais Kabir, Executive Director, KGF.



Hon'ble Planning Minister on the dais



Hon'ble Agriculture Minister on the dais

In the afternoon session Matia Chowdhury MP, Hon'ble Minister, Ministry of Agriculture, Government of the People's Republic of Bangladesh graced the occasion as Chief Guest. Dr. T.P. Tiwari, Country representative, CIMMYT-Bangladesh, Dr. Bhagya Rani Banik, Executive Chairman, Bangladesh Agricultural Research Council, Dr. Wais Kabir, Executive Director, Krishi Gobeshona Foundation were present as a special guests. Mr. Mohammad Nazmul Islam, Additional Secretary, Ministry of Agriculture, Government of the People's Republic of Bangladesh presided over the afternoon session. In this session, a keynote paper was presented by Dr. Gajendra Singh, Emeritus Professor, Asian Institute of Technology, Thailand. Dr. S. M. Bokhtiar, Director, SAARC Agriculture Centre (SAC) welcomed all dignitaries, guests and participants in the seminar.

Matia Chowdhury MP, Hon'ble Minister, Ministry of Agriculture, Government of the People's Republic of Bangladesh remarked there is no alternative of farm mechanization to increase agricultural productivity and to reduce the labour shortage. She also highlighted we achieved remarkable success in the agriculture sector due to farmer friendly policy of the government. For continuation of this trend, no alternative of farm mechanization she added.

Dr. Gajendra Singh, Emeritus Professor, Asian Institute of Technology, Thailand presented a keynote paper on "Mechanization of Agricultural Value Chain for Sustainable Intensification in SAARC Region" in the afternoon session. Finally, the session was ended through distribution of certificates by the chief guest who participated in the exhibition.

The Charter Day were celebrated with a series of events, flags hoisting, release of pigeons and balloons, technical session, regional seminar cum exhibition on Agricultural mechanization.



Release of Balloons



SAC Director releasing pigeon



Honourable Planning Minister Visits the Exhibition Stall



A view of the participants to the Regional Seminar on Agricultural Mechanization

11th Governing Board Meeting of SAC



Dr. S.M. Bokhtiar, Director, SAC delivering speech in the inaugural session

The 11th Governing Board (GB) meeting of SAARC Agriculture Centre (SAC) was held on 26-27 September 2017 at SAC, Dhaka, Bangladesh. The inaugural ceremony of the 11th Governing Board (GB) meeting was held at Officer's Club, Ramna, Dhaka, Bangladesh on 25 September 2017. Mr. Md. Mosharaf Hossain, Additional Secretary (Extension), Ministry of Agriculture, Government of the People's Republic of Bangladesh graced as Chief Guest at the inaugural occasion while Dr. Bhagya Rani Banik, Executive Chairman, Bangladesh Agricultural Research Council (BARC) was present as Special Guest. Mr. Md. Shamsul Haque, Director General (SAARC & BIMSTEC), Ministry of Foreign Affairs, Government of the People's Republic of Bangladesh was present as Guest of Honor. Dr. Md. Kabir Ikramul Haque, Chairman, Governing Board of SAARC Agriculture centre and Member Director (Fisheries), BARC presided over the inaugural function. Mr. MJH Javed, Director (Agriculture & Rural Development Division), SAARC Secretariat, Kathmandu, Nepal was present as the representative of the SAARC Secretary General. Dr. S. M. Bokhtiar, Director, SAARC Agriculture Centre delivered the welcome address. Besides, Dr Shiv Prasad Kimothi, GB Member of India, Mr Lekha Nath Achariya, GB Member of Nepal and Dr BVR Punyawardena, GB Member of Sri Lanka attended the inaugural session. The representatives from diplomatic missions of SAARC Member Countries (Afghanistan, Bhutan and Pakistan) stationed in Dhaka also graced the occasion. A number of officials from NARS Institutions, BARC, FAO, Practical Action, WINROCK International, Action Aid, Asian Farmer Association, DAE, BADC, World Fish, IRRI, CIMMYT, CIRDAP, KGF who have been intimately working with SAC were also present as special invitees.



Director (ARD) sharing his views in the meeting

Dr SM Bokhtiar, Director, SAC extended his warm welcome to Mr Md Mosharaf Hossain, Additional Secretary (Extension), Ministry of Agriculture, Honorable GB Members and other distinguished guests present in the Inaugural Session of the Meeting. He highlighted activities of SAC and the role of SAC in research and development and dissemination of technologies. He underlined the significance of the 11th GB Meeting as the apex body of the SAC in reviewing of previous activities and formulating future programs and addressing emerging challenges in the agriculture and allied disciplines in South Asia. Dr Bokhtiar particularly appreciated remarkable contribution made by Mr MJH Javed, Director (ARD), SAARC Secretariat who is going to complete his tenure by early October 2017 after 3 years long service as Director (ARD). Finally he conveyed his sincere gratitude to every one for accepting the invitation and coming up to grace this important event.



All governing board members

Mr MJH Javed, Director, SAARC Secretariat in his inaugural remarks conveyed the best wishes and warm greetings of His Excellency Secretary General, SAARC Secretariat for a successful holding of 11th GB Meeting. He emphasized that GB Meeting is the most important event in the annual calendar. He conveyed special gratitude to all GB members for attending this important event and elaborated on the importance of GB meeting for revised the proposed programs in line with regional agricultural priorities. Mr Javed made a special remark on the high quality of SAC publications by taking the example of procurement of selected SAC publications by US-Library Congress. He finally conveyed his heart felt gratitude all those who sincerely supported him to carry out his assignment as Director (ARD) during past 3 years.

Mr Md Shamsul Haque, Director General (SAARC & BIMESTEC), MoFA, Bangladesh during his remarks as the Guest of Honour made a statement that SAC is the finest institution operated under the SAARC umbrella. He further witnessed that activities of SAC were greatly appreciated by the 53rd Programming Committee Meeting. He expressed that Bangladesh is very much keen to share knowledge and skills on advancements of agriculture, fisheries and livestock sectors with other SAARC Member Countries. He finally conveyed his best wishes for the successful conducting of the meeting.

Dr Bhagya Rani Banik, Executive Chairman, BARC made a speech as the Special Guest. She appreciated SAC active involvement in linking all National Agricultural Research Organization in the region. She assured continuous support for SAC from BARC to carry out national and regional commitments.

Mr Md Mosharaf Hossain, Additional Secretary (Extension), Ministry of Agriculture, Bangladesh extended warm welcome to all the distinguished members of the SAC Governing Board and wished them a very successful meeting. He highlighted that more than half of total population is living below the poverty line and poverty alleviation is still the most important priority agenda of SAARC. He subsequently pointed out that Her Excellency Sheikh Hasina, Honourable Prime Minister of Government of the People's Republic of Bangladesh has emphasized the importance of joint initiatives of SAARC Member Countries to eradicate poverty and hunger from the region at the inaugural session of the 3rd SAARC Agriculture Ministers' Meeting held in Dhaka in 2016. He conveyed his gratitude for active involvement of SAC towards grass root level poverty alleviation through agriculture research, dissemination of agricultural know-how, capacity development and policy intervention. He further praised SAC initiatives to work in partnership and collaboration with international and regional organization such as FAO, IFAD, ISC, UoP-PGIA, APN, AFA, TFNet, ILRI and IRRI.

Dr Md Kabir Ikramul Haque, Chairman, Governing Board of SAC in his speech highlighted that SAC has been evolving over the years as one of the leading regional centre under the SAARC and made its identity. He conveyed his delightfulness over the appreciation of SAC activities at 53rd Programming Committee. Further, he appreciated and made a special remark on SAC's networking with many regional and international

organizations during the recent past. He conveyed his sincere gratitude on behalf of SAC GB to FAO, ICARDA, ICRISAT and other organizations for fullest support rendered for carrying out of SAC activities during 2016/ 2017.

Some Important Recommendations of 11th GB Meeting

1. The GB approved the selection of a suitable candidate to pursue PhD in Agricultural Economics on International Agricultural Trade at the University of Peradeniya - Postgraduate Institute of Agriculture (UoP-PGIA), Sri Lanka for year 2018 with partial waiver of tuition fee. Further, GB suggested SAC to make arrangements to have a Consortium of Agricultural Universities in the SAARC region where to place future awardees of SAC scholarship in future.
2. There are sixteen (16) regular program and twenty five need based program proposed by the SAARC Agriculture Centre for 2018 and subsequently approved by the GB meeting and finally recommended for the approval of Programming Committee Meeting.
3. The GB discussed the budget for 2018 proposed by SAC. GB instructed not to include the Airfare and DSA of GB Members for their participation in the GB meeting in the budget of SAC.
4. Regarding the proposed “Writeshop for developing proposal on innovation in value chain of fruits in SAARC countries”, the GB advised that potential donors can be kept in the loop from the initial stage so that they are updated on SAC’s interests and initiatives in this subject.
5. The meeting recommended developing 1-2 review articles from the selected need based programs for each issue of SAARC Journal of Agriculture. The task can be assigned to either relevant SPS or eminent line expert for the particular need based program. These review papers would be subjected to the regular review process of the journal.

SAARC

Visitors 2017

Sl.	Date	Name & Address
1.	25 Jan. 2017	Mr. Rober Turner Asia Innovative Farmer's project, 208 Wireless Road, Bangkok, Thailand
2.	25 Feb. 2017	Vlichele Weuler, IRRI
3.	27 Aug. 2017	Esher Penunia Secretary General, Asian Farmer Association (AFA) Loyola Height, Queen City Philippines
4.	27 Aug. 2017	Criz Paez Loyola Height, Queen City Philippines
5.	27 Aug. 2017	Sirajul Islam Osmanpur, Goraghat, Dinajpur
6.	07 Sept. 2017	Dr. Yusuf Zafar Chairman, PARC, Pakistan



Contributors from SAC

Dr. S.M. Bokhtiar, Director, SAC

Dr. Shiba Shankar Giri, Senior Program Specialist (Fisheries)

Dr. W.A.R.T. Wickramaarachchi, Senior Program Specialist (PSPD)

Dr. Pradyumna Raj Pandey, Senior Program Specialist (Crops)

Mr. Md. Nure Alam Siddiky, Senior Program Specialist (Livestock)

Ms. Fatema Nasrin Jahan, Senior Program Officer (NRM)

Dr. Md. Younus Ali, Senior Technical Officer

Mr. Md. Mizanur Rahman, IT Manager (Database)

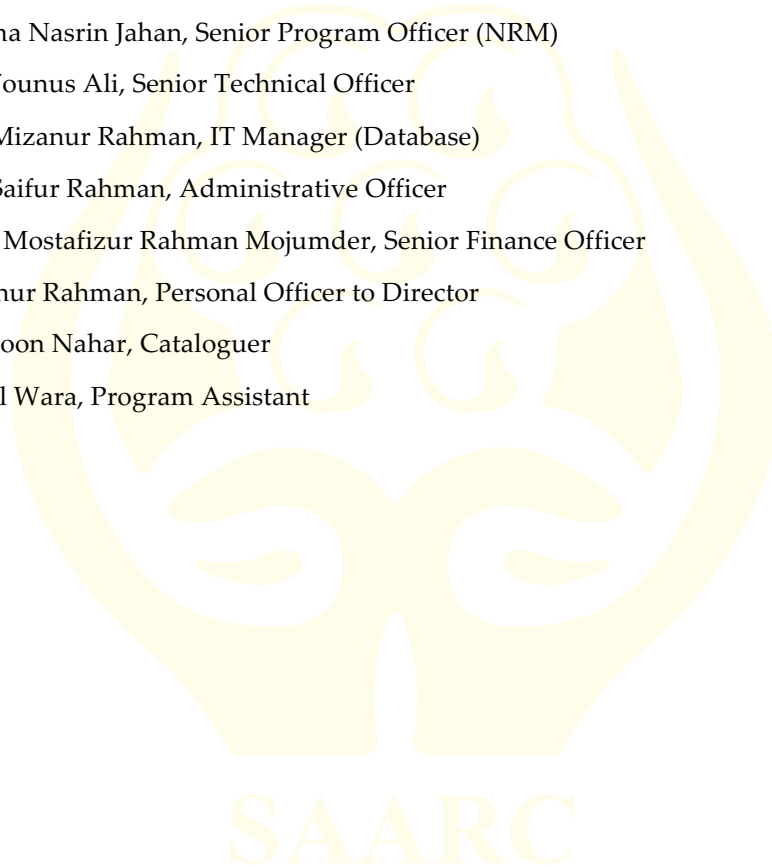
Mr. Md. Saifur Rahman, Administrative Officer

Mr. ATM Mostafizur Rahman Mojumder, Senior Finance Officer

Mr. Mizanur Rahman, Personal Officer to Director

Ms. Najmoon Nahar, Cataloguer

Mr. Nurul Wara, Program Assistant



Price list of SAC Publications

S N	Title of the Publications	Price in US\$		Retail Price	Published year
		SAARC Countries	Other Countries	in BD Taka	
	New Arrival				
1.	Agricultural Research in SAARC Region: Common Challenges and priorities				2017
2.	Best Management Practices in Aquaculture; Capacity Building and Policy Development	20.00	80.00		2017
1.	Farm-made Aquafeeds; Opportunities, Challenges and Policy Intervention	20.00	80.00		2017
2.	Mechanization for Sustainable Agricultural Intensification in SAARC Region	10.00	50.00	600/-	2017
3.	Backyard Poultry Production Systems in SAARC Member States	10.00	20.00		2017
4.	Sustainable Goat Farming for Livelihood Improvement in South Asia	10.00	20.00		2017
5.	Best Practices of Integrated Plant Nutrition System in SAARC Countries	10.00	50.00	600/-	2017
6.	Water-Energy-Food Nexus: A Basis for Sustainable Agricultural Development in SAARC Region	10.00	50.00	600/-	2017
7.	SAARC Journal of Agriculture Vol.15 Issue 1-2, 2017				2017
8.	Best Practices of Conservation Agriculture in South Asia	10.00	50.00	600/-	2017
9.	Community-based Non-Wood Forest Products Enterprise: A Sustainable Business Model	10.00	50.00	600/-	2017
10.	Facilitating Microbial Pesticide Use in Agriculture in South Asia	10.00	50.00	600/-	2017
11.	Challenges and Opportunities in Value Chain of Spices in South Asia	10.00	50.00	600/-	2017
12.	Best Practices of Maize Production Technologies in South Asia	10.00	50.00	600/-	2017
13.	Pulse Based Recipes for Better Diets and Nutrition				2017
14.	Annual Report 2016				2017
17.	Released Varieties of Cereals, Pulses and Oilseeds in SAARC Region	10.00	50.00	600/-	2016
18.	Cotton Technology Exchange Program in SAARC Region	20.00	50.00	1,590/-	2016
19.	Policy Farming on Fish Biodiversity Management in Transboundary Rivers of South Asia	10.00	50.00	600/-	2016
20.	Climate Change Impact on Coastal Fisheries and Aquaculture in South Asia	10.00	50.00	600/-	2016
21.	Pulses for Sustainable Food and Nutrition	10.00	20.00	600/-	2016

S N	Title of the Publications	Price in US\$		Retail Price	Published year
		SAARC Countries	Other Countries	in BD Taka	
	Security in SAARC Region				
22.	Annual Report 2015				2016
23.	Role of Agro-processing for Rural Development in SAARC Region	20.00	50.00	1,590/-	2016
24.	Status and Future Prospect of Organic Agriculture for Safe Food Security in SAARC Countries	08.00	10.00	500/-	2015
25.	Soil and Soul – Means and End for Sustainable Agriculture	06.00	08.00	400/-	2015
26.	SAARC Outlook on Water-Energy-Food Nexus in SAARC Countries	20.00	50.00	1,590/-	2015
27.	Technological Advancement – Agro-forestry Systems – Strategy for Climate Smart Agricultural Technologies in SAARC Region	20.00	50.00	1,590/-	2015
28.	Sericulture Scenario in SAARC Region	20.00	50.00	1,590/-	2015
29.	Potential and Prospect of Floriculture Sector to Improve Livelihood of the Farmers in SAARC Member Countries	6.00	10.00	400.00	2015
30.	Status and Future Prospect of Organic Agriculture for Safe Food Security in SAARC Countries	8.00	10.00	500.00	2015
31.	SAARC Dairy Out Look	5.00	8.00	250.00	2015
32.	Means and End for Sustainable Agriculture A collection of essays and seminar papers on Soil	6.00	8.00	400.00	2015
33.	Mite Management of Coconut in SAARC Member Countries	5.00	6.00	250.00	2014
34.	Adaptation to Climate Change Impact on Crop Production in SAARC Member Countries	6.00	10.00	400.00	2014
35.	Prospects, Needs Benefits and Risk Assessment of Agriculture Related Genetically Modified Products in SAARC Countries	6.00	10.00	400.00	2014
36.	Farm Animal Genetic Resources in SAARC Countries Diversity, Conservation and Management	8.00	10.00	500.00	2014
37.	SAARC Journal of Agriculture Vol.12 Issue 1	15.00	20.00	200.00	2014
38.	Value Chain Analysis and Market Studies on Fruits and Vegetable in SAARC Member Countries	5.00	10.00	300.00	2014
39.	National Agricultural Extension Systems in SAARC Countries An Analysis of the System Diversity	5.00	10.00	350.00	2014

S N	Title of the Publications	Price in US\$		Retail Price	Published year
		SAARC Countries	Other Countries	in BD Taka	
40.	SAC Monograph The SAARC Australia Project Developing Capacity in Cropping Systems Modelling for South Asia	5.00	10.00	300.00	2014
41.	Coastal and Marine Fisheries Management in SAARC Countries	5.00	10.00	300.00	2013
42.	Popularizing Multiple Cropping Innovation As a means to Raise Crop Productivity and Farm Income	10.00	20.00	600.00	2013
43.	Extent and Potential use of Bio-pesticides for Crop Production in SAARC Countries	10.00	20.00	600.00	2013
44.	Best Practices and Procedures of Saline Soil Reclamation Systems in SAARC Countries	10.00	20.00	600.00	2013
45.	National Agricultural Education System in SAARC Countries	10.00	20.00	600.00	2013
46.	Economic Impact of Transboundary Animal Diseases in SAARC Countries	5.00	8.00	300.00	2013
47.	Diversity of Veterinary Services in SAARC Countries	6.00	10.00	400.00	2013
48.	SAARC Journal of Agriculture Vol.11 Issue 1	15.00	20.00	200.00	2013
49.	SAARC Journal of Agriculture Vol.11 Issue 2	15.00	20.00	200.00	2013
50.	Quality Seed in SAARC Countries Production, Processing, Legal and quality Control and Marketing System (Reprint)	10.00	20.00	600.00	2013
51.	SAARC Seed Outlook	5.00	10.00	300.00	2012
52.	Current Status and Future Prospect of Pulse Production in SAARC Countries	5.00	10.00	300.00	2012
53.	Directory of Successful Farm Machinery in SAARC Countries	7.00	10.00	500.00	2012
54.	Statistical Data Book for Agricultural Research and Development in SAARC Countries 2012	8.00	10.00	300.00	2012
55.	Impact of Climatic Parameters on Agricultural Production and Crop Productivity Losses through Weather Forecast and Advisory Service in SAARC Countries	6.00	10.00	400.00	2012
56.	Enhancing Oilseeds Production through Improved Technology in SAARC Countries	5.00	10.00	300.00	2012
57.	SAARC Journal of Agriculture Vol.10 No.1	15.00	20.00	250.00	2012
58.	NARS National Agricultural Research System in SAARC Countries-An analysis of System diversity	5.00	10.00	300.00	2011
59.	Pesticide Information of SAARC Countries	10.00	20.00	600.00	2011

S N	Title of the Publications	Price in US\$		Retail Price	Published year
		SAARC Countries	Other Countries	in BD Taka	
60.	Veterinary Public Health and Zoonotic Disease Control in SAARC Countries (Workshop Proceedings)	6.00	10.00	400.00	2011
61.	SAARC Journal of Agriculture Vol. 9 No.1	15.00	20.00	250.00	2011
62.	SAARC Journal of Agriculture Vol. 9 No.2	15.00	20.00	250.00	2011
63.	Dairy Production, Quality Control and Marketing System in SAARC Countries (Workshop Proceedings)	6.00	10.00	400.00	2011
64.	Strategies for Arresting Land Degradation in South Asian Countries	5.00	10.00	300.00	2011
65.	Quality Seed in SAARC Countries: Production, Processing, Legal and Quality Control and Marketing System (Workshop Proceedings)	10.00	20.00	500.00	2011
66.	Public Sector Support System and its collaboration with Private Sector for Livestock Development in SAARC countries	6.00	10.00	300.00	
67.	Statistical Data Book for Agricultural Research and Development in SAARC Countries (2008-09)	8.00	10.00	300.00	2010
68.	Proceedings of Regional Workshop on Hill Agriculture in SAARC Countries: Constraints & Opportunities	5.00	10.00	250.00	2010
69.	Directory of Ph.D. Dissertations on Agriculture in SAARC Countries 2000-2006 Vol. 3, India	10.00	15.00	500.00	2010
70.	SAARC Journal of Agriculture Vol. 8 No.1	15.00	20.00	250.00	2010
71.	SAARC Journal of Agriculture Vol. 8 No.2	15.00	20.00	250.00	2010
72.	SAARC Journal of Agriculture Vol. 7 No.1	15.00	20.00	250.00	2009
73.	SAARC Journal of Agriculture Vol. 7 No.2	15.00	20.00	250.00	2009
74.	Fodder Germplasm in SAARC Countries	7.00	10.00	300.00	2009
75.	Status of Integrated Pest Management (IPM) in SAARC Countries	5.00	8.00	200.00	2009
76.	SAARC Journal of Agriculture Vol. 6 No.1	15.00	20.00	250.00	2008
77.	SAARC Journal of Agriculture Vol. 6 No. 2	15.00	20.00	250.00	2008
78.	Regional Workshop on Farm Mechanization for Small holders Agriculture in SAARC Countries	5.00	7.00	200.00	2008
79.	Directory of Ph.D. Dissertations on Agriculture in SAARC Countries 2000-2006 Vol. 2, India	10.00	15.00	500.00	2008
80.	Bibliography of Periodicals Available in SAARC Agriculture Centre Library (2 nd Edition)				2008
81.	Livelihood Development through Agriculture in the Saline Prone Coastal Ecosystem of SAARC Countries	6.00	10.00	200.00	2008

S N	Title of the Publications	Price in US\$		Retail Price	Published year
		SAARC Countries	Other Countries	in BD Taka	
82.	Best Practices in Animal Feed Production and Management in SAARC Countries	6.00	10.00	300.00	2008
83.	SAARC Journal of Agriculture Vol. 5 No.1	10.00	15.00	125.00	2007
84.	SAARC Journal of Agriculture Vol. 5 No.2	10.00	15.00	125.00	2007
85.	Statistics Data Book for Agricultural Research and Development in SAARC Countries	8.00	10.00	300.00	2007
86.	Crop Varieties in SAARC Countries	3.00	5.00	100.00	2007
87.	Regional Programme Development in Agriculture Through Consultations				2007
88.	Handbook on Livestock and Poultry Diseases in SAARC Countries	10.00	15.00	300.00	2007
89.	Training Manual and Interactive Multimedia CD ROMs on Presentation Technology	3.00	5.00	50.00	2007
90.	Catalogue on Natural Enemies of the Insect Pests Food Crops in SAARC Countries	10.00	15.00	300.00	2007
91.	Directory of Ph.D. Dissertations on Agriculture in SAARC Countries 2000-06 Vol. 1, Bangladesh	10.00	15.00	500.00	2007
92.	Bibliography of Periodicals Available in SAARC Agriculture Centre Library				2007
93.	Bibliography of Periodicals Available in SAARC Agriculture Centre Library				2013
94.	SAARC Journal of Agriculture Vol. 4 (2006)	10.00	15.00	125.00	2006
95.	Proceedings of the Regional workshop on Research-Extension Linkages for Effective Delivery of Agricultural Technology in SAARC Countries	5.00	7.00	200.00	2006
96.	Guide on Medicinal and Aromatic Plants of SAARC Countries	10.00	15.00	500.00	2006
97.	SAARC Journal of Agriculture Vol. 3 (2005)	10.00	15.00	125.00	2005
98.	Risk in Agriculture and their Coping Strategies in SAARC Countries	5.00	7.00	100.00	2005
99.	Handbook on Fish and Crustacean Diseases in the SAARC Region			300.00	2005
100.	Agricultural Scientists and Technologists of SAARC Countries: 2nd Edition	10.00	15.00	500.00	2004
101.	Statistical Bulletin of SAARC Agricultural Data-2004	10.00	15.00	440.00	2004
102.	SAARC Journal of Agriculture Vol.2 (2004)	10.00	15.00	125.00	2004
103.	Proceedings of the Regional Workshop on Attempts and Successes of ICT Roadmap to Villages in the SAARC Countries	10.00	15.00	440.00	2004

S N	Title of the Publications	Price in US\$		Retail Price	Published year
		SAARC Countries	Other Countries	in BD Taka	
104	Technologies on Livestock and Fisheries for Poverty Alleviation in SAARC Countries	5.00	7.00	150.00	2004
105	Agricultural Institutions in SAARC Countries: 3rd Edition	10.00	15.00	440.00	2003
106	Statistical Bulletin of SAARC Agricultural Data-2003	10.00	15.00	440.00	2003
107	Plant Genetic Resources of SAARC Countries: Their Conservation and Management	10.00	15.00	500.00	2003
108	Proceedings of SAARC Workshop on Post harvest Technology	5.00	8.00	80.00	2003
109.	Role of Information and Communication Technologies for Poverty Alleviation through Agricultural Development in SAARC Countries	10.00	15.00	440.00	2003
110.	SAARC Directory of Seed Companies/ Entrepreneurs 2003	5.00	10.00	150.00	2003
111.	SAARC Journal of Agriculture Vol.1 (2003)	10.00	15.00	125.00	2003
112.	Statistical Bulletin of SAARC Agricultural Data – 2002	10.00	15.00	440.00	2002
113.	Proceedings of SAARC Workshop on Soil Fertility Management for Increasing Productivity in Rice-based Cropping System	3.00	5.00	75.00	2002
114.	Annotated Bibliography on Seed Quality, Production and Preservation in the SAARC Region	10.00	15.00	440.00	2002
115.	Agricultural Research and Extension Systems in SAARC Countries	4.00	6.00	130.00	2001
116.	Quarantine and Phytosanitary Laws of SAARC Member Countries	6.00	10.00	150.00	2001
117.	Directory of Agricultural Periodicals of SAARC Countries (3rd edition)	10.00	15.00	500.00	2001
118.	Development of Horticulture in SAARC Countries	3.00	5.00	75.00	2000
119.	Regional Workshop of Experts in SAARC Countries on Transfer of Technology in Agriculture	3.00	5.00	75.00	1999
120.	Agricultural Information Systems and Services in SAARC Countries	3.00	5.00	75.00	1999
121.	Union Catalogue of Ph.D. Thesis of SAARC Countries	3.00	5.00	75.00	1999
122.	Agricultural Training in SAARC Countries	2.00	5.00	40.00	1998
123.	Agricultural Information Needs, Mode, Mechanism and Information Flow in SAARC Countries	2.00	5.00	50.00	1998

S N	Title of the Publications	Price in US\$		Retail Price	Published year
		SAARC Countries	Other Countries	in BD Taka	
124.	Bibliography on Technologies for Drought-prone and Salt-affected AEZ in SAARC Countries	3.00	5.00	100.00	1998
125.	Success Stories on Transfer of Farm Technology in SAARC Countries	2.00	3.00	50.00	1998
126.	Hybrid and High Yielding Crop Varieties in SAARC Countries	2.00	3.00	50.00	1998
127.	Innovative Agricultural Technologies in SAARC Countries	3.00	5.00	75.00	1998
128.	Agricultural Institutions in SAARC Countries: 2nd Edition	10.00	15.00	440.00	1996
129.	Database on Renewable Energy Resources in SAARC Countries (1996)	3.00	5.00	132.00	1996
130.	Directory of Agricultural Periodicals of SAARC Countries: 2nd Revised Edition	10.00	15.00	500.00	1996
131.	Database on Livestock Production Breeding and Management in SAARC Countries	10.00	15.00	440.00	1996
132.	Improved Equipment for the Farm People of the SAARC Region	5.00	10.00	220.00	1996
133.	Annotated Bibliography on Potato in the SAARC Countries	10.00	15.00	440.00	1995
134.	Bibliography on Fish Diseases in the SAARC Countries	3.00	5.00	132.00	1995
135.	Dynamics of Agricultural Biotechnology: SAARC Bibliographical Database	10.00	15.00	440.00	1995
136.	Postharvest Management in Agriculture SAARC Bibliographical Database	5.00	8.00	220.00	1995
137.	Agricultural Scientists and Technologists of SAARC Countries: 1st Edition	20.00	25.00	440.00	1993
138.	Agricultural Institutions in SAARC Countries: 1st Edition	10.00	15.00	440.00	1993
139.	Annotated Bibliography on Agroforestry in the SAARC Region	10.00	14.00	440.00	1993
140.	Directory of Agricultural Periodicals of SAARC Countries (1st edition)	10.00	15.00	500.00	1993
141.	Women in Agriculture, Gender issues in South Asian Farming	7.50	10.00	352.00	1993

Free of Cost

Sl. No.	Title of Publication	Year of Publication
1.	SAARC AgriNews (Quarterly) Vol 7 No. 4	2013
2.	SAARC AgriNews (Quarterly) Vol 7 No. 3	2013
3.	SAARC AgriNews (Quarterly) Vol 7 No. 2	2013
4.	SAARC AgriNews (Quarterly) Vol 7 No. 1	2013
5.	SAARC AgriNews (Quarterly) Vol 6 No. 4	2012
6.	SAARC AgriNews (Quarterly) Vol 6 No. 3	2012
7.	SAARC AgriNews (Quarterly) Vol 6 No. 2	2012
8.	SAARC AgriNews (Quarterly) Vol 6 No. 1	2012
9.	SAARC AgriNews (Quarterly) Vol 5 No. 4	2011
10.	SAARC AgriNews (Quarterly) Vol 5 No. 3	2011
11.	SAARC AgriNews (Quarterly) Vol 5 No. 2	2011
12.	SAARC AgriNews (Quarterly) Vol 5 No. 1	2011
13.	SAARC AgriNews (Quarterly) Vol 4 No. 4	2010
14.	SAARC AgriNews (Quarterly) Vol 4 No. 3	2010
15.	SAARC AgriNews (Quarterly) Vol 4 No. 2	2010
16.	SAARC AgriNews (Quarterly) Vol 4 No. 1	2010
17.	SAARC AgriNews (Quarterly) Vol 3 No. 4	2009
18.	SAARC AgriNews (Quarterly) Vol 3 No. 3	2009
19.	SAARC AgriNews (Quarterly) Vol 3 No. 2	2009
20.	SAARC AgriNews (Quarterly) Vol 3 No. 1	2009
21.	SAARC AgriNews (Quarterly) Vol 2 No. 4	
22.	SAARC AgriNews (Quarterly) Vol 2 No. 3	
23.	SAARC AgriNews (Quarterly) Vol 2 No. 2	
24.	SAARC AgriNews (Quarterly) Vol 2 No. 1	
25.	Foodgrain Situation in SAARC countries Bulletin No. 16 Crop year 2011-1012	2013
26.	Foodgrain Situation in SAARC countries Bulletin No. 15 Crop year 2010-1011	2012
27.	Foodgrain Situation in SAARC countries Bulletin No. 14, 2009-10	2011
28.	SAC Brochure	2011
29.	SAARC Agriculture Vision 2020	2009
30.	Publications Catalogue 2010	2010

Sl . No.	Title of Publication	Year of Publication
31.	SJA Booklet	2013
32.	Farm Mechanization Booklet	2008
33.	SAARC News, Views & Ideas, October- December, Vol:14	2010
34.	SAARC News, Views & Ideas January-March, Vol:15	2011
35.	SAARC News, Views & Ideas, April-June vol: 15	2011
36.	SAARC News, Views & Ideas July-September vol: 15	2011
37.	SAARC News, Views & Ideas October-December-vol: 15	2011
38.	SAARC News, Views & Ideas January- March, Vol: 16	2012
39.	Catalogue of Audi0-visual program of SAARC Agriculture Centre	2009
40.	SAC Annual Report 2014	2015
41.	SAC Annual Report 2013	2014
42.	SAC Annual Report 2012	2013
43.	SAC Annual Report 2011	2009
44.	SAC Annual Report 2010	2008
45.	Recommendations of the Regional Workshop on “Quality Seed in SAARC Countries: Production, Processing, Legal and Quality Control and Marketing System”	2010
46.	Recommendation of Regional Workshop on Hill Agriculture in SAARC Countries: Constraints & Opportunities	2010
47.	Recommendations and Policy Input of the Regional Workshops/Consultations	2012
Note: (i) The Booksellers in SAARC countries will receive 25% commission on all SAC Publications. (ii) Prices in the above list are inclusive of postal charges, applicable only in SAARC member countries.		

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