National Conference

On

Utilization of Waterlogged Ecosystem with Makhana-Aquaculture: Strategies and Challenges (UWEMASC: 2024)

June 08-10, 2024

Organized by

Bhola Paswan Shastri Agricultural College

Purnea, Bihar-854302

(Bihar Agricultural University, Sabour, Bhagalpur, Bihar-813210)

About the Conference

Waterlogged/Lowland/wetlands constitute an area of 15.26 million ha comprising of 4.63 per cent of the total geographical area of the country. Bihar is fortunate in having plenty of water resources, even though many parts of the country are facing acute shortage of water. Substantial increase in crop production (up to 5 to 8 times) is possible using a mix of technological intervention with optimum rainwater management practices on farming system approach. The vast stretch of flood plain wetlands in Bihar can be turned into an agricultural gold mine, if it is managed effectively and put to appropriate use.

Bihar, with its deep agricultural roots, is home to a population where about 80 per cent engaged in farming. Central to its agrarian culture is a unique produce – Fox Nut or Makhana, a staple for generations. Remarkably, almost 90 per cent of the world's supply of Makhana comes from Bihar, particularly from the 10 districts of Katihar, Purnea, Supaul, Saharsa, Darbhanga, Madhubani, Madhepura, Araria. Kishanganj and Sitamarhi. In the year 2022, Bihar's Makhana was awarded a Geographical Indication (GI-696) tag, officially christening it as 'Mithila Makhana' and recognizing its unique regional identity.

Makhana or Fox nut or Gorgon nut (*Euryale ferox* Salisb) is an important aquatic cash crop, belonging to family Nympheaceae. *Euryale ferox* is the only species of the genus. The distribution of this species is limited to the tropical and subtropical regions of South-East and East Asia. It has adapted to the tropical climate of India and is found in natural, wild forms in various parts of North-East and East India (Assam, Meghalya, and Orissa) and scattered pockets of central and Northern India (eg. Gorakhpur and Alwar). However, the region (*holy land of Ma Vaidehi / Sita*) of North Bihar is the principal area of its present existence, where it is extensively cultivated considered as a potential aquatic cash crop. Makhana is best grown in age-old perennial water bodies with a rich mucky bottom providing nutrients to the plants. Harvesting and processing of seed is still carried out by traditional methods.

Makhana is one of the most common dry fruits utilized by the people due to low fat content, high contents of carbohydrates, protein and minerals. The seeds are consumed both as raw and roasted form. The seeds are sold in market and used as a farinaceous food. The different dietary components of the seeds were investigated to assess its nutritional significance. Edible perisperm constitutes 80 per cent starch. Both raw and fried Makhana are fairly rich in essential amino acids and minerals including both macro and micro-nutrients. A lot of medicinal uses of Makhana are recommended in the Indian and Chinese system of medicine.

Over the past decade, Bihar has seen remarkable increase in the acreage of Makhana from about 20,000 ha area to 35,224 ha. The land used for Makhana cultivation almost grew by over two times from 2012-2013 to 2021-2022. There is a significant rise in seed production and also greater surge in pop production has been noticed, which is more than double. Traditionally, Makhana thrives in pond ecosystems. This marks a significant milestone, highlighting Bihar's evolving and increasingly prominent role as a major hub for Makhana cultivation.

Makhana growing districts of Bihar have immense potential of Makhana cultivation due to larger extent of water bodies. But lack of high yielding varieties, improved package and practices, lack of mechanization in harvesting and processing are the major constraints for high production and productivity of wetland/lowland/waterlogged areas.

About the BAU, Sabour

Bihar Agricultural University, Sabour is historically known for being the first ever institute of Agricultural Education in Eastern India and one of the five oldest Agricultural Colleges presently existing in the country. It was initially founded as Bengal Provincial Agricultural College in 1908. In 1912, when Bihar was separated from Bengal, the College was re-named as Bihar Agricultural College. Bihar Agricultural University, Sabour is mandated for teaching, research, extension and training in the fields of agriculture and allied disciplines. Bihar Agricultural University, Sabour established on August 05, 2010 with its headquarters at the site of the Bihar Agricultural College, Sabour, the

University has already received accreditation by the Indian Council of Agricultural Research and has also been awarded with the ISO 2009:2015 certification. BAC, Sabour has been for many years the nerve centre of almost all state-level research schemes and the research programme for the whole region was coordinated from BAU, Sabour itself.

About the BPSAC, Purnea

Bhola Paswan Shastri Agricultural College (BPSAC) is situated at Purnea City, Purnea (Bihar), i.e., approx. 100 kms away from headquater BAU-Sabour, Bhagalpur. The college has an area of 84 ha land and the college is offering the degree B.Sc. with Honours in Agriculture under Bihar Agricultural University, Sabour. This college is named after the famous personality, social reformer, agriculturist and thrice Chief Minister of Bihar, Late Bhola Paswan Shastri ji, who hails from Kajha village of Purnea district. The college has the responsibility of crop improvement, augmenting horticulture and live-stock production apart from management of agricultural activities and carrying out researches that could improve overall agricultural production in Kosi region of Bihar

Thematic Area

- Optimizing Productivity of wetlands/waterlogged/lowland Agriculture under Changing Climate.
- Challenges and solutions for sustainable intensification of crop production systems in submerged soil.
- Fundamentals of Makhana production with reference to Physiology, Microbiology, and Biochemistry etc.
- Crop improvement of Makhana Crops, Insect and Pest Dynamics along with management Interventions.
- Farm mechanization for Makhana Production, Processing and value addition.
- Entrepreneurship avenues for Sustainable Intensification of lowland Agriculture.
- Government Policies for marketing/ branding strategies, IPR issues, GST, Biosafety, Ethics, GATT and TRIPS etc.
- Promotional activities by stakeholders (Buyer-Seller meets, Policymakers-Scientists-Farmers-Exporter-Other stakeholders meet)

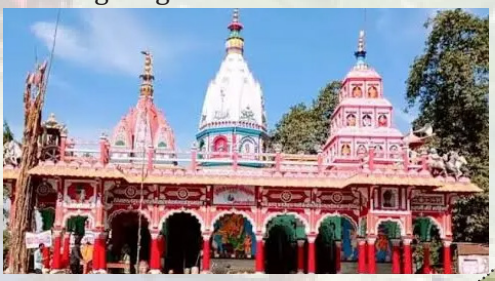
About the Venue

Bhola Paswan Shastri Agricultural College, Purnea is situated in Purnea City and well connected with road with all parts of the Bihar state. It is just 3 kms away from Purnea Junction Railway station and 30 kms away from Katihar railway station which is well connected with all parts of the country. The closest Airports of Purnea are –Bagdogra Airport (IXB) 130 kms, Darbhanga Airport (DBR) 240 kms, Deoghar Airport (DGH) 225 kms, Lok Nayak Jayaprakash Airport, Patna (PAT) 380 kms and Gaya Airport (GAY) 350 kms. The weather of Purnea district during June, 2024 expected to be warm with temperature ranging between 23-37°C and average monthly rainfall of 318 mm.

About the Purnea

Purnea has an area of 3,202 square km. It is a levelled, depressed tract of country, most of its part consist of a rich, loamy soil of alluvial formation. It is traversed by several rivers flowing from the Himalayas, which afford great advantages of irrigation and water-carriage. Its major rivers are the Kosi, the Mahananda, the Saura, the Suwara Kali, the Panar and the Koli. In the west the soil is thickly covered with sand deposited by changes in the course of the river Kosi. Maize, Jute, Makhana and Banana are its major agricultural products.

Purnea is also famous for the oldest temple of Mata Puran Devi, It is believed that Mata Puran Devi fulfills the wishes of every devotee, hence the name Mata Puran Devi, which is very adjacent to our venue. Purnea receives average highest rainfall in Bihar and its moderate climate has earned the soubriquet of 'Poor's man's Darjeeling'.



Prahlad Pillar and Hirankashyap Fort: At a distance of 35 km away from the venue, there is Bhakta Prahlad Stambh in Sikligarh, Dharhara, whose history is thousands of years old. It is said that this place was the stronghold of King Hiranyakashyap.

Darjeeling: at a distance of 228 km away from the venue, the darjeeling is a district in west bengal state and falls under himalyan foothills which is famous for its hill station and darjeeling tea.

Siliguri: at a distance of 170 km away from the venue, THE SILIGURI Known as the "Gateway of Northeast India", Siliguri is popular for three: tea, timber and tourism. It is located on the banks of the Mahananda River and the Teesta River at the foothills of the Himalayas. Siliguri is the third largest urban agglomeration in West Bengal, after Kolkata and Asansol.

Accommodation and Transportation

Accommodation for delegates will be provided on request basis. Delegates are requested to send their requisition and full payment in advance for booking accommodation in nearby hotels.
For the convenience of the delegates of National Conference, special transport arrangements will be made for arrival and departure at the Bagdogra Airport (IXB), Purnea and Katihar Railway Stations subject to prior intimation about date, time and place of arrival and departure.

Exhibition

An exhibition of Makhana based value added products, Production and processing technologies and other latest technological and related equipment will be organised during the National Conference at the venue to encourage interested stakeholders. The exhibition will be open to the National Conference delegates as well as general public/farmers/students/ entrepreneurs etc. visiting the Venue. The stalls would be allotted on first come first serve basis. Stalls of different sizes will be available on demand. As the space is limited, the partners are requested to book early to avoid disappointment. The booking form duly filled in along with the requisite payment through online mode of transaction or in the form of a Demand Draft drawn in favour of "**UWEMASC, BPSAC, PURNEA**"payable at Sabour, Bhagalpur should be sent to the Organizing Secretary at the address given overleaf so as to reach before May 30, 2024. Alternately the booking amount fees can also be transferred through bank as per details given overleaf. The booking request for exhibition stalls will not be confirmed without payment.

Submission of Extended Abstract

Abstract may be submitted in MS Word file with limit of 350 words. Extended abstracts are invited electronically (E-mail: makhanatraining@gmail.com) in MS Word file of length not more than 1500 words with key figures and references not exceeding three (3) A4 size papers. The extended abstract/summary should contain, Introduction, Materials and methods and results/conclusion sections. Please follow APA referencing style for the extended abstract. Leadpaper should also be communicated by the keynote speaker to the above mentioned e-mail. The conference proceedings will include Leadpaper/abstract/ extended abstracts/summaries and will be published in the Souvenir cum Abstracts book of the National Conference. Last date of submission of Abstract/ Extended abstract/ Leadpaper is **27.05.2024.** Those who want to make (oral /poster size-6' height x 3' width) presentation need to compulsorily submit abstract within the given deadline. Selected papers will be accepted for ORAL presentation. The presentation should be made using MS Power Point with maximum SEVEN (07) slides.

Target Participants

Govt. officials, Scientists, Academician, Experts/Policy Makers, Industrialist, KVKs, MNCs, Progressive farmers, students and other stakeholders.

Registration Fee

Registration can be done by sending DD/ NEFT using the details below
Account Holder Name: **UWEMASC, BPSAC, Purnea**
Account No. : **924010023312524**
IFSC Code: **UTIB0004341**
Bank Branch : **Axis Bank, Sabour, Bhagalpur**

Registration Fee and Link

Participants	Registration Fee	On Spot Registration
Academician/Faculty/ Scientists/SMSs/ Govt. Officials/ Industrialists/ Investors	INR 2500	INR 3000
Students/ Farmers/ Entrepreneurs	INR1000	INR1000

- Registration fee may be paid in given account details: Account Name –**UWEMASC, BPSAC, PURNEA** A/c No. **924010023312524,** IFSC code: **UTIB0004341,** Bank: **Axis Bank, Sabour, Bhagalpur.**
- Transaction receipt must be uploaded in the registration link
- Participants must register in the conference with payment and following registration link.
- **Registration Link: https://shorturl.at/rzCL5**

Important Deadlines

Date	Particulars
20.05.2024	Last date of submission of letter of intent for conference sponsorship
27.05.2024	Last date of submission of Abstract/Extended abstract/ Leadpaper
30.05.2024	Letter of acceptance to authors
03.06.2024	Last date of online registration by participants
30.05.2024	Last date of submission of advertisement details for printing in Sovenir-cum-Abstract Book and booking request
30.05.2024	Last date of submission of filled in stall registration form

Souvenir cum Abstracts

On the occasion of National Conference, Souvenir will be released at the inaugural function by the Chief Guest. It will contain the abstracts of selected technical papers to cater for advertisements of products & services of advertisers. The size of the Souvenir will be approximately 21 cm x 27 cm.

Sl. No.	Content	Rate (Rs.)
i.	**Back Cover (colour)**	**40,000/-**
ii.	**Front/ Back inner cover (Colour)**	**35,000/-**
iii.	**Facing Front/ Back inner cover (Colour)**	**30,000/-**
iv.	**Full Page (Colour)**	**25,000/-**
v.	**Full Page (Black & White)**	**20,000/-**
vi.	**Half Page (Black & White)**	**15,000/-**
vii.	**Quarter Page (Black & White)**	**10,000**

Intending organizations / institutions / companies may send their requests for booking. The advertisement space in the Souvenir along with 'ready to print' (required colour separates) advertisement material in hard and soft copy and requisite payment through bank transfer as per details given overleaf.

Sponsorship Details with Charges

Sponsorship Plans for leading partners such as Public Sector organizations, Govt. Departments, industries, original equipment manufacturers, other agencies and individuals are requested to generously sponsor the National Conference as per details mentioned below.

Strategic Sponsor	Rs. 2.5 lakh (with free registration of 7 delegates & Logo display & one exhibition stall)
Platinum Sponsor	Rs. 1.5 lakh (with free registration of 5 delegates & Logo display & one exhibition stall)
Gold Sponsor	Rs. 1.0 lakh (with free registration of 3 delegates & Logo display & one exhibition stall)
Silver Sponsor	Rs. 0.5 lakh (with free registration of 2 delegates & Logo display & one exhibition stall)

All the Payment will be made either online mode or in the form of demand draft drawn in favour of "**UWEMASC, BPSAC PURNEA**" payable at **SABOUR, BHAGALPUR** by 05th June, 2024, to the Organizing Secretary at the address mentioned. Please note that all payments must be done with extra 18% GST.

Conference Kit: Rs. 2,50,000 + 18% GST; 3 delegates free, one folded double page coloured advertisement in souvenir, name on kit bags at one place, 10 minute presentation.
Patron Sponsor: Rs. 50,000 + 18% GST; 2 delegates free, one full-page advertisement in souvenir (coloured), 10-minute presentation, logo display.
Cultural Evening: Rs. 50,000 + 18%; 1 delegate free, full-page advertisement in souvenir (mono), 10-minute presentation, banner display.
Lunch & Dinner: Rs. 2,50,000 + 18% GST; 3 delegates free, full-page advertisement in souvenir (mono), banners in dining area.
Inaugural Tea: Rs. 50,000 + 18% GST; 1delegate free, half page advertisement in the Souvenir (mono), banners in dining area.
Tea during Breaks: Rs. 25,000 + 18% GST; each session (Total four sessions); one delegate free, one half page advertisement in the Souvenir (mono), banners in dining area.
Co-Sponsor: Rs. 50,000 + 18% GST; 1 delegate free, one half page advertisement in the souvenir (mono), banner display at suitable places.
Organizations/Institutions/Companies desirous of sponsoring may forward their letter of intent to the Organising Secretary by **May 20, 2024** and last date of submission of advertisement details for printing in Sovenir-cum-Abstract Book and stall booking request is **May 30, 2024**.

All the Payment will be made either through online mode (NEFT/RTGS etc) or in the form of demand draft drawn in favour of "**UWEMASC, BPSAC PURNEA**" payable at **SABOUR BHAGALPUR** by May 20, 2024 to the Organizing Secretary at the address mentioned. Please note that all payments must be done with extra 18% GST.

Organizing Committee

Patron

Dr. Himanshu Pathak, Secretary (DARE) and Director General (ICAR), Krishi Bhavan, New Delhi.

Sri Sanjay Kumar Agrawal, IAS, Hon'ble Secretary Agriculture, Govt. of Bihar

Co-Patron

Dr. Alok Ranjan Ghosh, I.A.S. Agriculture Director-cum-MD BRBN, Govt. of Bihar

Sri Abhishek Kumar, I.F.S. Director, Horticulture-cum-M.D, Bihar state Horti. Mission/Bihar Fruit & Veg. Corn. Ltd., Govt. of Bihar.

Sh. Priya Ranjan, Managing Director, National Horticulture Board, Gurugram (Haryana)

Shri Abhishek Dev, IAS, Chairman, APEDA, New Delhi.

Chairman:

Prof. (Dr.) D.R. Singh, Hon'ble Vice-Chancellor, BAU, Sabour, Bhagalpur

Convener:

Dr. Anil Kumar Singh, Director Research, BAU, Sabour, Bhagalpur

National Advisory Committee:

Dr. Trilochan Mohapatra, Chairperson, Protection of Plant Varieties and Farmers' Rights Authority Govt. of India, Ministry of Agriculture & Farmers Welfare, Department of Agriculture and Farmers Welfare,NASC Complex, DPS Marg, Opp- Todapur Village, New Delhi-110012

Dr. Sanjay Kumar Singh, Deputy Director General (Horticultural Science), Krishi Anusandhan Bhawan - II, New Delhi.

Dr. S.N. Jha, Deputy Director General (Agricultural Engineering) Division of Agricultural Engineering, Krishi Anusandhan Bhawan - II, New Delhi.

Dr. Udham Singh Gautam, Deputy Director General (Agricultural Extension), Division of Agricultural Extension, Krishi Anusandhan Bhawan, New Delhi.

Dr. Joykrushna Jena, Deputy Director General (Fisheries Science) Division of Fisheries, Krishi Anusandhan Bhawan - II, New Delhi.

Dr. Suresh Kumar Chaudhari, Deputy Director General (Natural Resource Management) Division of Natural Resource Management, Krishi Anusandhan Bhawan - II, New Delhi.

Sri Vijoy Prakash, IAS (Retd.), Ex Agriculture Production Commissioner, Govt. of Bihar and CCEO, AIC, Bihar Vidhyapith, Patna

Dr. R. C. Choudhary, Chairman, PRDF, Gorakhpur, UP and Ex. Project Manager, FAO of United Nations, Myanmar

Dr. A. K. Singh, Director & Vice Chancellor, ICAR-Indian Agricultural Research Institute, New Delhi.

Dr. Somnath Roy Chowdhury, Pro-Vice Chancellor, Apex Professional University, Pasighat, Smart City, Arunanchal Pradesh-791102

Dr. D. K. Yadava, Assistant Director General (Seed), Division of Crop Science, Krishi Bhavan, New Delhi.

Dr. V. B. Patel, Assistant Director General (Horticultural Science), Division of Horticulture, Krishi Anusandhan Bhawan - II, , New Delhi.

Dr. Gyanendra Pratap Singh, Director, ICAR-National Bureau of Plant Genetic Resources, New Delhi.

Dr. Anup Das, Director, ICAR-RCER, Patna

Dr. Nachiket Kototwaliwale, Director, ICAR-National Research Centre for Makhana, Darbhanga, Bihar and Director , ICAR-Central Institute of Post Harvest Engineering and Technology, Ludhiana, Panjab, India.

Dr. S. K. Malhotra, Project Director (DKMA), 5th Floor, Krishi Anusandhan Bhawan-I, Pusa, New Delhi.

Dr. P.S. Brahmanand, Director, ICAR-PD Water Technology Centre, New Delhi.

Dr. V. N. Jha, Ex. Professor Botany, LNMU & Principal, MLSM, College, Darbhanga.

Dr. A. P. Singh, Ex. Dean, Institute of Agricultural Sciences, BHU Varanashi.

National Organizing Committee:

Dr. P. K. Singh, Head, Division of Plant Exploration and Conservation, ICAR-National Bureau of Plant Genetic Resources, New Delhi.

Dr. Anju Mahendru Singh, Head, Division of Germplasm Conservation, ICAR-National Bureau of Plant Genetic Resources, New Delhi

Dr. Ashutosh Upadhyaya, Head, DLWM, ICAR-RCER, Patna.

Dr. Satish Kumar Yadav, Principal Scientist (Hort.), Germplasm Exchange & Policy Unit, ICAR-National Bureau of Plant Genetic Resources, New Delhi
Dr. A. K. Misra, Principal Scientist, International Relational Division, ICAR-Department of Agricultural Research and Education, Ministry of Agriculture & Farmers Welfare, Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi.
Dr. I. S. Singh, P.S. ICAR-National Research Centre for Makhana, Darbhanga, Bihar.
Dr. V. K. Gupta, Principal Scientist & Head (Retd.), ICAR-RCER, Research Centre for Makhana, Darbhanga, Bihar.
Dr. Ramani Kanta Thakuria, Ex. Chief Scientist, AICRP, on Irrigation Water Management, Assam Agricultural University, Jorhat-785013, Assam
Shri V. K. Vidyarthi, General Manager Agricultural and Processed Food Products Export Development Authority (APEDA), Ministry of Commerce and Industry, GOI.

Core Organizing Committee Members:
Dr. A. K. Sah, Dean (Agriculture) and CEO/Hub facilitator, Makhana Development Scheme, BAU, Sabour
Dr. R. K. Sohane, Director Extension Education, BAU, Sabour, Bhagalpur
Dr. R P Sharma, DRI cum Dean PGS, BAU, Sabour, Bhagalpur
Dr. Mizanul Haque, Registrar, BAU, Sabour, Bhagalpur
Dr. Feza Ahmad, Director Seed and Farm, BAU, Sabour, Bhagalpur
Dr. M. K. Wadhwani, Director Administration, BAU, Sabour, Bhagalpur
Dr. J. N. Srivastava, Director Student Welfare, BAU, Sabour, Bhagalpur
Er. K. S. Raman, Director Works and Plant, BAU, Sabour, Bhagalpur
Sri B. K. Sinha, Comptroller, BAU, Sabour, Bhagalpur

Co-Convener & Chief Organizing Secretary
Dr. Paras Nath, Assoc. Dean-cum-Principal and Nodal Officer, Makhana Development Scheme, BPSAC, Purnea

Co-Convener
Dr. S. N. Ray, Associate Dean-cum-Principal, Bihar Agricultural College, Sabour, Bhagalpur
Dr. N. Chattopadhyaya, Principal, College of Agricultural Biotechnology, Sabour, Bhagalpur
Dr. K Sathyanarayana, Associate Dean-cum-Principal, DKAC, Kishanganj
Dr. M. K. Sinha, Associate Dean-cum-Principal, Veer Kunwar Singh College of Agriculture, Dumroan, Buxar
Dr. Arunima Kumari, Associate Dean-cum-Principal, MBAC, Agwanpur, Saharsa
Dr. Randhir Kumar, Associate Dean-cum-Principal, Nalanda College of Horticulture, Noorsarai, Nalanda
Dr. M. D. Ojha, Regional Director, ARI, Patna.
Dr. D. K. Mahto, Associate Director Reearch, Agwanpur, Saharsa
Dr. Sailabala Dei, Deputy Director Research, BAU, Sabour
Dr. Ahmar Aftab, Chairman (Fruit and fruit Technology), Bihar Agricultural College, Sabour, Bhagalpur.
Dr. Janardan Prasad, Univ. Prof.-cum-Chief. Scientist (SSAC), BPSAC, Purnea

Organizing Secretary
Dr. Anil Kumar, Assistant Professors-cum-Jr. Scientist (Horticulture-Fruit) & Principal Investigator (PI), Makhana Development Scheme, BPSAC, Purnea.

Joint organizing Secretaries
Dr. P. K. Yadav, Asstt. Professor-cum-Jr. Scientist (SSAC), BPSAC, Purnea.
Dr. Tapan Gorai, Assistant Prof.-cum-Jr. Scientist (SSAC), BPSAC, Purnea
Dr. Ruby Saha, Assistant Prof.-cum-Jr. Scientist (SSAC), BPSAC, Purnea

Co- organizing Secretaries
Dr. Vikash Kumar, Assistant Prof.-cum-Jr. Scientist (Horticulture), BPSAC, Purnea.
Dr. Pankaj Kumar Mandal, Asstt. Professor-cum-Jr. Scientist (Entomology), BPSAC, Purnea.
Dr. Abhinav Kumar, Asstt. Professor-cum-Jr. Scientist (Entomology), BPSAC, Purnea.
Dr. Minu Mohan, Assistant Prof.-cum-Jr. Scientist (SSAC), BPSAC, Purnea
Dr. Chunni Kumari, Assistant Prof.-cum-Jr. Scientist (Entomology), BPSAC, Purnea
Dr. Chethana CK, Assistant Prof.-cum-Jr. Scientist (PBG), BPSAC, Purnea

Treasurer

Dr. (Smt.) Shubh Laxmi, Assistant Prof.-cum-Jr. Scientist (Ag. Economics), BPSAC, Purnea
Smt. Akanksha, Assistant Prof.-cum-Jr. Scientist (SSAC), BPSAC, Purnea

Local Organizing Committee

Dr. Ashish Ranjan, Assistant Prof.-cum-Jr. Scientist (Horticulture), BPSAC, Purnea
Dr. Suraj Prakash, Assistant Prof.-cum-Jr. Scientist (Horticulture-Fruit), BPSAC, Purnea
Dr. Radhey Shyam, Assistant Prof.-cum-Jr. Scientist (Agronomy), BPSAC, Purnea
Sri. Jai Prakash Prasad, Assistant Prof.-cum-Jr. Scientist (PBG), BPSAC, Purnea
Dr. Matcha Udaya Kumar Assistant Prof.-cum-Jr. Scientist (Entomology), BPSAC, Purnea
Smt. Anupam Kumari, Assistant Prof.-cum-Jr. Scientist (Plant Pathology), BPSAC, Purnea
Dr. N.K. Sharma, Assistant Prof.-cum-Jr. Scientist (Ag. Extension), BPSAC, Purnea
Dr. Shambhu Nath, Assistant Prof.-cum-Jr. Scientist (SMCA), BPSAC, Purnea
Miss. Priyanka Kumari, Assistant Prof.-cum-Jr. Scientist (SSAC), BPSAC, Purnea
Dr. (Smt.) Bibha Kumari, Assistant Prof.-cum-Jr. Scientist (Horticulture-Fruit), BPSAC, Purnea
Mohd Zakir Hussain, Assistant Prof.-cum-Jr. Scientist (Agronomy), BPSAC, Purnea
Smt. Sneha, Assistant Prof.-cum-Jr. Scientist (SSAC), BPSAC, Purnea
Dr. (Smt.) Alpana Kusum, Assistant Prof.-cum-Jr. Scientist (SSAC), BPSAC, Purnea
Shri Dhananjay Kumar, Assistant Prof.-cum-Jr. Scientist (SSAC), BPSAC, Purnea
Dr. Paritosh Kumar, Assistant Prof.-cum-Jr. Scientist (Plant Pathology), BPSAC, Purnea
Dr. Bal Krishna, Assistant Prof.-cum-Jr. Scientist (PBG), BPSAC, Purnea
Sri. Praveen Kumar, Assistant Prof.-cum-Jr. Scientist (PBG), BPSAC, Purnea
Sri. Amrendra Kumar, Assistant Prof.-cum-Jr. Scientist (Horticulture-Oleri.), BPSAC, Purnea
Dr. Usha Kumari, Asstt. Professor-cum-Jr. Scientist (SSAC), MBAC, Agwanpur, Saharsa
Dr. Rajkishor Kumar, Asstt. Professor-cum-Jr. Scientist (SSAC), RRS, Agwanpur, Saharsa
Dr. Shafi Afroz, Assistant Prof.-cum-Jr. Scientist (Ag. Extension), DKAC, Kishaganj
Er. Pradeep Kaushal, EE (C), BPSAC, Purnea
Sri Ashutosh Kumar, Assistant Comptroller, BPSAC, Purnea

Coordinators

Dr. Sharda, Sr. Scientist and Head, KVK, Katihar
Dr. Surendra Chaurasiya, Sr. Scientist and Head, KVK, Madhepura
Dr. K. M. Singh, Sr. Scientist and Head, KVK, Purnea
Dr. Vinod Kumar, Sr. Scientist and Head, KVK, Araria
Dr. Nitya Nand, Sr. Scientist and Head, KVK, Saharsa
Dr. Mithilesh Kumar Roy, Sr. Scientist and Head, KVK, Supaul
Dr. Reeta Singh, Sr. Scientist and Head, KVK, Patna
Dr. Seema Kumari, Sr. Scientist and Head, KVK, Nalanda
Dr. Rajiv Kumar Singh, Sr. Scientist and Head, KVK, Kishanganj

Co-Coordinators

Dr. Ravi Keshri, Assistant Prof.-cum-Jr. Scientist (MBGE), BAC, Sabour
Dr. Manoj Kumar, Scientist (Soil Science), ICAR-RCM, Darbhanga
Dr. Anil Kumar, Assistant Prof.-cum-Jr. Scientist (SSAC), IRS, Madhepura
Dr. Kunal Pratap Singh, Assistant Prof.-cum-Jr. Scientist (Plant Pathology), JRS, Katihar
Dr. S. P. Viswakarma, Assistant Prof.-cum-Jr. Scientist (SSAC), IRS, Madhepura
Dr. Govind Kumar, Subject Matter Specialist (Agronomy),KVK, Purnea
Dr. S. K. Singh, Subject Matter Specialist (Agronomy), KVK, Katihar
Dr. Pankaj Kumar Rai, Subject Matter Specialist (Horticulture), KVK, Saharsa
Sri Nilesh Kumar, Subject Matter Specialist (Horticulture), KVK, Supaul
Dr. R. P. Sharma, Subject Matter Specialist (Entomology), KVK, Madhepura
Dr. Hemant Kumar Singh, Assistant professor –Horticulture, Department of Agriculture, CUSB, Gaya
Dr. D.P. Saha, Assistant Prof.-cum-Jr. Scientist (Horticulture-Fruit), DKAC, Kishaganj
Dr. D. K. Chaudhary, Assistant Prof.-cum-Jr. Scientist (Agronomy), RRS, Agwanpur
Dr. Umakant Singh, Assistant Prof.-cum-Jr. Scientist (Horticulture), RRS, Agwanpur

Programme

Date	Tentative Time	Programme
(Day 1) 08-06-2024	8:00 am to : 9:00 am	Registration
	9:00 am to : 11:00 am	Inaugural Session
	11:00 am to : 11:30 am	High Tea
	11:30 am to : 12:15 pm	Keynote Presentations
		1. Optimizing Productivity of wetlands/waterlogged/lowland Agriculture under Changing Climate.
		2. Challenges and solutions for sustainable intensification of crop production systems in submerged soil.
	12:15 pm to : 02:00 pm	Invited Lectures and Concurrent Session (Oral/poster presentation)
	02:00 pm to : 03:00 pm	**Lunch Break**
	03:00 pm to : 03:45 pm	Keynote Presentations
		3. Fundamentals of Makhana production with reference to Physiology, Microbiology, and Biochemistry etc.
		4. Crop improvement of Makhana Crops, Insect and Pest Dynamics along with management Interventions.
	03:45 pm to : 05:30 pm	Invited Lectures and Concurrent Session (Oral/poster presentation)
	05:30 pm to : 06:30 pm	Interactions and Collaborations
(Day 2) 09-06-2024	**09:00 am to : 06:30 pm**	**Field visit-cum- historical tour**
(Day 3) 10-06-2024	09:00 am to : 10:00 am	Keynote Presentations
		5. Farm mechanization for Makhana Production, Processing and value addition.
		6. Entrepreneurship avenues for Sustainable Intensification of lowland Agriculture
	10:00 am to : 11:45 am	Invited Lectures and Concurrent Session (Oral/poster presentation)
	11:45 am to : 12: 30 pm	Interactions and Collaborations
		7. Government Policies for marketing/ branding strategies, IPR issues, GST, Biosafety, Ethics, GATT and TRIPS etc.
		8. Promotional activities by stakeholders (Buyer-Seller meets, Policymakers-Scientists-Farmers-Exporter-Other stakeholders meet)
	12:30 pm to : 01: 30 pm	Valedictory Functions
	01:30 pm to : 02: 30 pm	Lunch

Bihar Agricultural University, Sabour

BHOLA PASWAN SHASTRI AGRICULTURAL COLLEGE

Kasba Road, Purnea City, Purnea – 854302, Bihar

National Conference on
"Utilization of Waterlogged Ecosystem with Makhana-Aquaculture: Strategies and Challenges (UWEMASC: 2024)"

June 08-10, 2024

Registration Form

Name ……

Designation ……

University/organization/Institute……

Category of participant: Student /Scientist/Academician/Farmer/Private/
Government official/ Entrepreneur/Others

Mailing address ……

Residence district……

Resident state……

Email. Id (if any)……

Contact no. ……

Gender: (Male / Female/ other)

Title of the manuscript……

……

Theme : ……

Mode of transaction ……

Date : …… Transaction No. ……

Amount : /……

Account Name –**UWEMASC, BPSAC, PURNEA** ,A/c No. **924010023312524,** IFSC code: **UTIB0004341,**
Bank: **Axis Bank, Sabour, Bhagalpur.**

Signature of the Participant

Bihar Agricultural University, Sabour

BHOLA PASWAN SHASTRI AGRICULTURAL COLLEGE

Kasba Road, Purnea City, Purnea – 854302, Bihar

National Conference on
"Utilization of Waterlogged Ecosystem with Makhana-Aquaculture: Strategies and Challenges (UWEMASC: 2024)"

June 08-10, 2024

Stall Registration Form

Organization Name ……

Contact of organization:

Sri/Smt/Dr. ……

Mobile …… e-mail: ……

Address ……

Stall	Size (12'x 12' x 10')	Rate per stall Rs 7500/-
No of stall required		
Details of demonstration		

Payment details:

Cash (Rs.)		Date	
Cash in words			
NEFT/RTGS/D.D. No/ Banker's Cheque No.		Date	

Fee may be paid in given account details: Account Name **UWEMASC, BPSAC, PURNEA**

A/C No.: **924010023312524,** IFSC code: **UTIB0004341**, Bank : **Axis Bank** Branch: **Sabour, Bhagalpur**

Signature and stamp of organization

Contact Details:

Organizing Secretary of the National Conference

(Mobile No.: +91-8864064870,
Email: makhanatraining@gmail.com)