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CENTRAL INSTITUTE OF BRACKISHWATER AQUACULTURE, CHENNAI

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Editorial Committee

Dr. S.M. Pillai.

Shri M. Kathirvel.

Dr. C.P. Rangaswamy,

Dr. (Mrs.) Munawar Sultana and

Dr.N. Kalaimani,

Principal Scientists

Published by:

Dr. Mathew Abraham,

Director.

CIBA, Chennai - 28.

Central Institute of Brackishwater Aquaculture 75, Santhome High Road, R.A. Puram, Chennai - 600 028.

Dr.MATHEW ABRAHAM TAKES CHARGE AS DIRECTOR, CIBA



the retirement of Division in 1999. Dr.G.R.M.Rao,

superannuation.

under guidance Assistant and served as Officer-in- Aquaculture Foundation of India.

Dr. Mathew Charge of the All India Co-ordinated Abraham took Research Project on Ecology and as Fisheries of Freshwater Reservoirs -Director, CIBA, Bhavanisagar and Alivar till 1985. with effect from After joining the Central Institute of 1 March 2002, Brackishwater Aquaculture, he was consequent on appointed as Head, Fish Culture

During his scientific career in Director, on 28 February 2002, on CIFRI, Dr.Mathew Abraham specialized in reservoir fisheries Dr. Mathew Abraham took his development, induced breeding, seed M.Sc. degree in Marine Biology from production and culture of Indian major Annamalai University in 1967. He carps and exotic carps. At CIBA, he obtained his Ph.D. degree in 1973 from has made significant contributions in the Department of Aquatic Biology the breeding and seed production of and Fisheries, University of Kerala, brackishwater finfishes such as of mullets, seabass and pearlspot. He Prof.Dr.N.Balakrishnan Nair. In is a recipient of the team award for 1972 he joined the Central Inland the successful breeding and seed Fisheries Research Institute, production of seabass for the first time Barrackpore, as Senior Research in the country, awarded by the

HIGHER SHRIMP PRODUCTION LEVELS IN POKKALI FIELDS THROUGH DEMONSTRATION OF IMPROVED TRADITIONAL / EXTENSIVE CULTURE

traditional shrimp culture practised in ranges from 100-500 kg/ha. The coastal regions in the low-lying traditional method of shrimp culture is impoundments, where the shrimp and practised in the Bheris of West high tide, are trapped and allowed to fields of Kerala, Khar lands of grow for short durations and harvested Karnataka and Khazani fields of Goa. periodically. The production of shrimp In all these areas, crop rotation is

India has a long history of from this system is generally low and fish seed brought in along with the Bengal, Gheris of Orissa, Pokkali

followed i.e., paddy cultivation during monsoon season and shrimp filtration during the rest of the period and this practice helps to maintain a natural balance of environment of the ecosystem.

In Kerala, two types of traditional shrimp filtration fields are available viz., the pokkali and perennial fields. The pokkali fields are shallow seasonal filtration fields where paddy crop is raised during the monsoon season and shrimp is cultured during the remaining period. The perennial fields are deeper wherein shrimp filtration is followed throughout the year. Out of the 65,000 ha of brackishwater area available for development in Kerala, 13,000 ha is in the traditional sector. Among this, 84.2% constitute Pokkali fields and 15.8% perennial fields. The shrimp fishery from these fields is largely constituted Fenneropenaeus indicus (earlier known as Penaeus indicus), Metapenaeus dobsoni and M. monoceros. Though rich in production potential, the production of shrimps from these fields is low, ranging between 250-500 kg/ha, indicating their under-utilization. Since the latter part of the 1980s, there was a shift in the culture practices due to the introduction of certain innovative measures like additional stocking with quality shrimp seed and supplementary feeding. This is done by the farmers in a smaller area by barricading a by providing efficient water exchange, corner of the field towards the bund weeds and paddy stumps. Repeated cast netting is then carried out to remove all the unwanted fishes and shrimps. Quality shrimp seed are stocked in this area, reared for 15-30 days and subsequently released into the open field. This innovation effected a marginal increase in the catch of quality shrimps but, there was no significant improvement in the overall production of shrimps.

To improve production from traditional fields, the Central Institute of Brackishwater Aquaculture (CIBA) undertook demonstration of improved traditional / extensive culture of Penaeus monodon in the Pokkali fields of Kerala. Following scientific methods, such as preparation of fields



Pokkali fields under preparation for shrimp filtration

prior to stocking with seed, including removal of weeds and paddy stumps, digging of channels leading towards sluice for shelter and effective drainage, regulation of water quality.

Table 1: Details of P. monodon culture in Pokkali fields

Field	Stocking density (no./ha)	Culture duration (days)	Final size (g)	Production (kg/ha)
1	60,000	90	35.7	637
2	50,000	115	47.2	1120
3	50,000	127	27.7	650
4	40,000	90	42.2	835
5	50,000	81	41.3	1100
6	33,500	96	30.0	700
7	42,000	99	42.7	800
8	43,000	83	32.8	615
9	36,000	82	27.4	1100
10	34,000	98	42.3	500

judicious application of manures and and clearing that portion, manually, of fertilizers, optimum feeding with formulated pelleted feeds and growth and health monitoring through periodical sampling of cultured stock, the production could be improved.

> Hatchery reared Penaeus monodon seed (PL 20) were stocked @ 33,500 to 60,000 no./ ha. The culture duration varied from 3 to 4 months. The details of the culture and monodon production of P. demonstrated by CIBA, in farmer's fields are shown in the Table-1.



Harvest of P.monodon from Pokkali field

Compared to the production level of 250-500 kg/ha generally reported from traditional filtration systems, a production of P. monodon ranging from 500-1120 kg/ha(Table 1) recorded in 3-4 months in the present demonstration trials in Pokkali fields indicates the potential of these fields in raising quality shrimps for domestic consumption and export.

RESEARCH HIGHLIGHTS

Field testing of Vibrio whole cell-based shrimp immunostimulant, conducted in farmers fields, showed promising results with Penaeus monodon. In Pond 1, with four doses of stimulation over a period of 138 days, a production 1450 kg/ ha was obtained compared to 1320 kg/ha from the control.In Pond 2 with seven doses of stimulation

- during the same period, the productionachieved was 2135 kg/ha, compared to 1962.5 kg/ha from the control.
- Screening of feed additives like chitin, β-carotene and glucosamine incorporated in *P. monodon* formulated diets revealed that the diet containing β-carotene yielded the highest growth in weight (570%) and best FCR (2.49).

LAUNCHING OF NESTED PCR KIT DEVELOPED BY CIBA



Lanuching of nested PCR kit by Shri. Ajit Singh, Hon'ble Union Minister for Agriculture, Govt. of India, New Delhi

The Nested Polymerase chain Reaction (PCR) kit developed by CIBA for the diagnosis of Indian • White Spot Virus disease in shrimp was commercialized and agreement to transfer know-how on Nested PCR was made by signing a Memorandum of Understanding (MOU) between CIBA and an Indian Biotech company (Bangalore -Genei), on 21 February 2002. This DNA-based White Spot Disease Diagnostic Kit was launched by Shri Ajit Singh, the Hon'ble Union Minister for Agriculture, Govt. of India, at New Delhi on 21 March 2002

VISITORS

- Dr.P.V.Dehadrai, Ex-DDG (Fy.), ICAR, 31 January 2002.
- Dr.T.J.Pandian, National Professor, School of Biological Sciences, Madurai Kamaraj University, Madurai;

- Dr.K.V.Devaraj, Former Vice-Chancellor, Bangalore . Agricultrual University, Bangalore; Dr.S.D.Kulkarni, Head of Division, CIAE, Bhopal; Shri K.Nagappan Nair, Principal Scientist (Retd.), CMFRI, Cochin: Dr.(Mrs) Lalitha John, Head, Dept. of Parasitology, TANUVAS. Chennai; Dr.A.D.Diwan, ADG (M.Fy.), ICAR, New Delhi, 4 February 2002.
- Dr.R.Kadirvel, Vice-Chancellor. TANUVAS, Chennai; Shri Inivan Nehru. Principal Systems Engineer, National Informatics Centre. Chennai; Dr.K.Kaliyaperumal, Deputy Librarian, Madras University Library, University Madras, Chennai. Dr.D. Viswanathan, Director. Audio-Visual Research Centre. Anna University, Chennai: Dr.S.Govindarajan, Professor & Department Head. Chemistry, Loyola College, Chennai, 22 February 2002.
- Dr.E.G.Silas, Chairman, Scientific Advisory Panel (SAP), NATP; Dr.M.Devaraj; Dr.S.Ramamurthy; Dr.B.Panda, and Dr.K.Durairaj, Expert Members, SAP - NATP Peer Review Meeting, 4 March 2002.

ENGAGEMENTS

Dr.G.R.M.Rao, Director, CIBA (upto 28 February 2002) attended the following Meetings / Workshops / Seminars:

- Delivered a lecture for the UGC Refresher Course in Zoology, at Nagarjuna University, Nagarjuna Nagar, (A.P.), on 11 January 2002.
- 34th Meeting of the Academic Council of Tamil Nadu
 Veterinary & Animal Sciences University (TANUVAS), at

- Chennai, on 18 January 2002.
- Visited Kattur Village (Ponneri Taluk, Tamil Nadu), as Chairman, Site Committee and Facilitator, NATP (Coastal Agro-ecosystem) to inspect the performance of different technological interventions under the NATP-IVLP project entitled "Technology assessment and refinement in coastal agro-ecosystem of Tiruvallur District of Tamil Nadu", on 17 January 2002.
- Visited Ranguilunda, Orissa, as Facilitator, NATP, Coastal Agro-ecosystem, to review the progress of work at the NATP Co-operating Centre, at College of Fisheries, OUAT, Rangailunda and Puri to inspect the progress of work at Puri Research Centre of CIBA and Bhubaneswar to discuss collaborative projects with the Director, CIFA, during 28-30 January 2002.
- Visited Kochi, as Facilitator, NATP (Coastal Agroecosystem), to review the progress of work under different NATP projects undertaken by Central Marine Fisheries Research Institute and Central Institute of Fisheries Technology, Kochi, during 5-7 February 2002.
- Visited New Delhi, as Facilitator, NATP (Coastal Agro-ecosystem), to discuss matters relating to NATP projects with National Coordinator and other officials of NATP, matters pertaining to IFREMER project and Institutional matters with the Deputy Director General (Fy.), at New Delhi, during 18-19 February 2002.
- Delivered a talk on NATP projects implemented by CIBA and the importance of NATP-

IVLP programme undertaken by the Institute, on 18 February 2002, through AIR, Chennai.

Dr. Mathew Abraham. Director, CIBA (from 1 March 2003) attended the following Meetings:

- Launching Ceremony for the Commercialization of the Nested PCR Kit developed by CIBA to be marketed by M/s Bangalore Genei, at New Delhi, on 21 March 2002.
- Twentieth Executive Meeting of the Rajiv Gandhi Centre for Aquaculture, (Myiladuthurai) on 22 March 2002, at MPEDA, Cochin.

The scientific, technical and administrative personnel of the Institute attended the following meetings / seminars / workshops:

- Dr.Mathew Abraham, Principal Scientist & Head, Fish Culture Division, Dr.S.M.Pillai, Dr.S.A.Ali, Dr.B.P.Gupta and Dr.N.Kalaimani Principal Scientists, visited Kattur Village (Ponneri Taluk, Tamil Nadu) to inspect the performance of different technological interventions under the NATP-IVLP project entitled "Technology assessment and refinement in coastal agroecosystem of Tiruvallur District of Tamil Nadu", on 17 January 2002.
- Dr.P.Ravichandran, Principal Scientist & Principal Investigator of NATP project viz., "Shrimp and fish broodstock development and breeding under captive conditions", visited College of Fisheries (OUAT), Rangailunda, Orissa, to review the progress of work at the NATP Co-operating Centre, during 28-30 January 2002.
- Dr. (Mrs.) M.Jayanthi, Scientist

Remote Sensing Geographic on 7 February 2002.

- Shri K.Ponnusamy, Scientist & Principal Investigator, NATP-IVLP project "Technology assessment and refinement in coastal agroecosystem of Tiruvallur District of Tamil Nadu", delivered a talk on the activities of the NATP-IVLP project, on 20 February 2002, through AIR, Chennai.
- Dr.N.Kalaimani, Principal Scientist gave a talk on Extension activities of CIBA and Dr.T.Ravishankar, Scientist (Sr. Scale), gave a talk on Technological interventions in horticulture which broadcasted in AIR, Chennai on 18.3.2002.
- Dr.T.C.Santiago, Principal Scientist and Dr.K.K.Vijayan, Senior Scientist, attended the launching ceremony of the Nested PCR Kit developed by CIBA to be marketed by M/s Bangalore Genei, at New Delhi, on 21 March 2002.

MEETINGS

PEER REVIEW MEETING OF NATP PROJECTS



Dr. E.G. Silas, Chairman, Peer Review Committee of NATP projects (Coastal agro-ecosystem) addressing the meeting

The peer review (SS), delivered a lecture on constituted under the NATP

"Wetland management using (Coastal Agro-ecosystem) critically and examined the progress of work of Information the three NATP projects being System", at M.S.Swaminathan implemented at CIBA, on 4.3,2002. Research Foundation, Chennai, The team comprised Dr.E.G.Silas, Chairman, Dr.M.Devaraj, Member and Dr.S.Ramamurthy, Expert Member.

entitled FARMERS' MEET



Shri. S. Thangaswami, I.A.S., Collector, Cuddalore District, Tamil Nadu addressing the Farmers meet.

A Farmers' Meet was organized by CIBA in collaboration with the Department of Fisheries, Govt. of Tamil Nadu, on 28 March 2002, at Chidambaram, Cuddalore District. Shri S. Thangaswami, Collector, Cuddalore district, presided over the function and issued licences to 36 shrimp farmers during the meet. About 150 farmers and 50 officials from various fisheries organizations, NGOs and other departments participated. Dr.P.Ravichandran, Principal Scientist and Scientist-in-Charge, Crustacean Culture Division, CIBA inaugurated the meet. Shri R.Tillai Govindan, Joint Director of Fisheries (Regional), Govt. of Tamil Nadu, Chennai; Prof. T.Balasubramanian. Director. Centre for Advanced Studies in Marine Biology, Annamalai University; S/Shri M.Sivaraman and M.Rajavel, progressive shrimp farmers; offered felicitations. Dr.T.C.Santiago, Dr.S.K.Pandian, Dr. A. R. Thirunavukkarasu. Dr.N.Kalaimani, Dr.M.Natarajan, Principal Scientists Dr.M.Kumaran, Scientist also participated.

PARTICIPATION IN SUNDERBAN UTSAV



Shri. R.K. Chakraborti, O.I.C., Kakdwip Research Centre, explaining the activities of CIBA to the visitors of Sunderban Utsav exhibition.

The Institute participated in the exhibition conducted in connection with SUNDERBAN UTSAV, at Kakdwip, during 23-26 January 2002.

WOMEN'S DAY

The Institute celebrated TRAINING Women's day at Kattur Village on 8.3.2002 under the NATP-IVLP project. A batch of 20 farm women from Self Help Groups were trained in Fish / shrimp pickle preparation.

NATP-IVLP PROJECT PROGRAMME - BROADCAST BY AIR

A series of programmes on the impact of the technological interventions effected through NATP-IVLP project implemented by CIBA at Kattur Village and the experiences of the adopted families were broadcasted by AIR, Chennai, under Farm & Home programme during 15.2.2002 to 27.2.2002.

HUMAN RESOURCE DEVELOPMENT

Dr.I.S.Azad and Dr.K.K. Vijayan, Senior Scientists Shri and S.V. Alavandi, Scientist (Selection Grade) participated in the National Workshop on Aquaculture Drugs, organized by the Cochin University of Science and Technology, Cochin, during 18-20 January 2002.

- Dr.(Mrs.) Ch. Sarada, Scientist, attended a training programme on "Designing vortals for NARS", organized by Division of Computer Applications, IASRI, New Delhi, during 6-26 February 2002.
- Shri R.Subburaj, T-3, attended a training on "Culture of live food organisms" organized by CIFE, Mumbai, during 8-14 January 2002.
- Shri R.Puthiavan, T-4. participated in the training programme on "Leadership HRD" organized by the Mandapam Regional Station of CMFRI, during 15-19 January 2002

A training programme on Extension Methodologies for Brackishwater Aquaculture was organized at CIBA headquarters, Chennai, during 7-11 January 2002. Three officials from Marine Products Export Development Authority (one each from Kochi, Vijayawada and Bhubaneshwar Centres) participated in the programme.

Lectures and demonstrations were conducted for the following at CIBA, Chennai and Muttukadu Experimental Station:

- A batch of 21 students (M.Sc. from Delhi Chemistry) University, on 6.1.2002
- A batch of 30 students (B.Sc. Zoology) from Islamia College, Vaniyambadi, Tamil Nadu, on 22.1.2002.

Ph.D. DEGREE AWARD

Dr.(Mrs.)B.Shanthi, Scientist (Senior Scale) was awarded Ph.D.

degree in Home Science Extension on 2.1.2002 Avinashilingam Institute for Home Science and Higher Education for Women



(Deemed University), Coimbatore, for her thesis entitled "Capacity Building of Fisherwomen - A Participatory Approach".

STAFF NEWS

Appointment

- Shri Maheshkumar appointed as Junior Hindi Translator on 17.1.2002.
- Shri K.V.Delli Rao, SS.Gr.I joined as Junior Clerk on 18.2.2002.

Promotion

The following Scientists and Technical Staff were promoted to the next higher grade.

Dr. Azad Ismail Saheb	Scientist SS to Senior Scientist	w.e.f.	27.07.1998
Dr.K.K.Vijayan	Scientist SS to Senior Scientist	"	05.10.1998
Dr.K.P.Jitendran	Scientist SS to Senior Scientist	"	27.07.1998
Shri M.Shashi Shekhar	Scientist to Scientist (SS)	"	21.07.1999
Dr.(Ms.) Shiranee Periera	Scientist to Scientist (SS)	"	27.07.1998
Dr. (Mrs.) M.Jayanthi	Scientist to Scientist (SS)		03.06.1999
Shri A. Vasanthakumar Charles	T-3 to T-4	"	20.11.2000
Shri S.Rajukumar	T-3 to T-4	"	28.11.2000
Shri Joseph Sahaya Rajan	T-3 to T-4	"	08.12.2000
Shri Marella Ravi	T-3 to T-4	"	11.12.2000
Shri C.Anandanarayanan	T-1 to T-2	"	06.10.2000
Shri P.Manickyam	T-1 to T-2	"	10.11.2000
Shri P.S.Samantha	T-1 to T-2	"	21.11.2000
Ms. Chanda Majumdar	T-1 to T-2	"	28.11.2000
Shri N.Jagan Mohan Raj	T-1 to T-2	"	15.02.2001

Relief

Dr.G.R.M.Rao, Director, retired on superannuation on 28.02.2002.

केन्द्रीय खारा जलजीव पालन अनुसंधान संस्थान, चेन्नई

उन्नत पारंपरिक/व्यापक पालन के निदर्शन द्वारा पोक्कालि क्षेत्रों में झींगा उत्पादन स्तर उच्च

भारत के तटीय भागों के निचले इलाकों में बाँधे गए पानी में पारंपरिक झींगा पालन का एक लंबा झतिहास है, जिसमें उच्च ज्वार भाटे के साथ लाए गए झींगा व मछली बीजों को पकड़ा जाता है तथा उन्हें अल्पावधि के लिए बढ़ने दिया जाता है एवं समय-समय पर उपज निकाली जाती है। इस कम लागत-प्रणाली से झींगा उत्पादन साधारणतया कम (१००-५०० कि.ग्रा./हे.) होता है। पश्चिम बंगाल के भेरिस, उडीसा के घेरिस, केरल के पोक्कालि क्षेत्रों, कर्नाटक की खार भूमि तथा गोवा के खजनी क्षेत्रों में झींगा पालन की पारंपरिक विधि अपनाई गई। इन सभी क्षेत्रों में फ़सल आवर्तन का अनुसरण अर्थात् मानसून के दौरान धान की खेती व बाकी समय में झींगा निस्यंदन किया जाता है तथा इस तरह का कार्य परितंत्र के प्राकृतिक संतुलन को बनाए रखने में सहायता प्रदान करता है।

स्फुटनशालाओं में पालित पी. मोनोडान (PL 20) के बीजों का 30,000 से 60,000/हे. की दर से संग्रहण किया गया। पालनावधि में 3-4 महिनों का अन्तर रहा।

पारंपिरक निस्यंदन विधि द्वारा सामान्यतया प्राप्त उत्पादन स्तर (250-500 कि.ग्रा./हे.) की तुलना में पोक्कालि क्षेत्रों में 3-4 महिनों के पालन द्वारा पी. मोनोडान का 500-1120 कि.ग्रा./हे. उत्पादन दर्ज किया गया जो यह बताता है कि उत्तम झींगों के घरेलु उपयोग व निर्यात हेतु इन क्षेत्रों की उत्पादन क्षमता बढी है।

डॉ. मात्यू एब्रहाम द्वारा निदेशक, केखाजपाअसं. का कार्यभार ग्रहण

28 फरवरी, 2002 को डॉ. जी.आर.एम. राव, निदेशक की सेवा-निवृत्ति के पश्चात् डॉ. मात्यू एब्रहाम ने 1 मार्च, 2002 को निदेशक, केन्द्रीय खारा जलजीव पालन अनुसंधान संस्थान का कार्यभार ग्रहण किया।

डॉ. मात्यू एब्रहाम ने केन्द्रीय अंतर्स्थलीय मात्स्यिकी अनुसंधान संस्थान में अपने वैज्ञानिक जीवन के दौरान जलाशय मात्स्यिकी विकास, प्रेरित प्रजनन, बीज उत्पादन तथा प्रमुख कार्प व विदेशी कार्प के पालन में विशेषता अर्जित की। इन्होंने केखाजपाअंसं. में खारेपानी पख-मछली (जैसे मुल्लेट्स, सीबास व पर्लस्पाट) के प्रजनन व बीज उत्पादन में महत्वपूर्ण योगदान दिया। सफलतापूर्वक सीबास में प्रजनन व बीज उत्पादन हेतु इन्हें देश में पहली बार एक्वाकल्चर फाउंडेशन आफ इंडिया द्वारा टीम एवार्ड प्रदान किया गया।

शोध विशिष्टताएँ

कृषक क्षेत्रों में विब्रियों की संपूर्ण कोशिका पर आधारित झींगा प्रतिरक्षा-उद्दीपक के क्षेत्र परीक्षण से पिनस मोनोडान में आशाजनक परिणाम दिखाई पड़े। तालाब 1 में 138 दिनों तक उद्दीपक की चार खुराक दिए जाने पर 1450 कि.ग्रा./हे. उत्पादन प्राप्त हुआ जबिक नियंत्रण द्वारा 1320 कि.ग्रा./हे. रहा। तालाब-2 में 138 दिनों तक उद्दीपक की सात खुराक देने पर 2135 कि.ग्रा./हे. उत्पादन प्राप्त हुआ जबिक नियंत्रण द्वारा 1962.5 कि.ग्रा./हे. ही रहा।

आहार योगशील जैसे चीटीन, β-केरोटीन तथा ग्लुकोज़ामाइन मिश्रित पी. मोनोडान के सूत्रीकृत आहार के परीक्षण यह दर्शाते हैं कि β-केरोटीन युक्त आहार द्वारा वजन में उच्चतम वृद्धि (570%) तथा उत्कृष्ट एफ.सी.आर. (2.49) प्राप्त हुआ।

केखाजपाअसं. द्वारा विकसित नेस्टेड पी.सी.आर. किट का शुभारंभ

झींगों में भारतीय व्हाइट स्पाट विषाणु रोग के निदानार्थ संस्थान द्वारा विकसित नेस्टेड पालिमिरेज़ चेन रिएक्शन (पी.सी.आर.) किट का व्यापारीकरण किया गया तथा नेस्टेड पी.सी.आर. पर उपलब्ध जानकारी के हस्तांतरण हेतु 21 फ़रवरी, 2002 को केखाजपाअसं. एवं भारतीय बायोटेक कंपनी (बेंगलुर-जीनी) के बीच सहमति पत्र पर हस्ताक्षर किए गए। श्री अजीत सिंह जी, माननीय केन्द्रीय कृषि मंत्री, भारत सरकार ने नई दिल्ली में 21 मार्च, 2002 को इस डी.एन.ए. आधारित व्हाइट स्पाट रोग निदान किट का शुभारंभ किया।

बैठके

राकृप्रौप परियोजनाओं की पीर समीक्षा बैठक

राकृप्रौप (तटीय कृषि-परितंत्र) के अधीन गठित पीर समीक्षा टीम ने 04-03-2002 को केखाजपाअसं. द्वारा कार्यान्वित राकृप्रौप की तीन परियोजनाओं की कार्य प्रगति का विवेचनात्मक परीक्षण किया। उक्त टीम में डॉ. ई.जी. सिलास, अध्यक्ष, डॉ. एम. देवराज, सदस्य तथा डॉ. राममूर्ति (विशेषज्ञ) सदस्य सम्मिलित थे।

कषक सभा

28 मार्च, 2002 को चिदंबरम्, कडलूर जिले में केखाजपाअसं. द्वारा मात्स्यिकी विभाग, तमिलनाडु सरकार के संयुक्त तत्वावधान में कृषक सभा का आयोजन किया गया।

संदरवन उत्सव में सहभागिता

संस्थान ने जनवरी, 2002 में काकद्वीप में आयोजित सुंदरबन उत्सव से संबंधित प्रदर्शनी में भाग लिया।

महिला दिवस

राकृप्रौप-संगाँसंका परियोजना के अन्तर्गत संस्थान ने 8-3-2002 को काट्टूर ग्राम में महिला दिवस मनाया। स्व-सहायक समूहों के एक 20 कृषक महिला दल को मछली/झींगा अचार तैयार करने हेतू प्रशिक्षित किया गया।

राकृप्रौप-संगाँसंका परियोजना कार्यक्रम-आकाशवाणी प्रसारण

आकाशवाणी द्वारा 15-2-2002 से 27-2-2002 तक कृषि एवं गृह कार्यक्रमों के अन्तर्गत काट्टूर ग्राम में केखाजपाअसं. द्वारा कार्यान्वित राकृप्रौप-संगाँसंका परियोजना से प्रभावित प्रौद्योगिकी हस्तक्षेपों के प्रभाव तथा अपनाए गए परिवारों के अनुभवों से संबंधित कार्यक्रमों की शृंखला का प्रसारण किया गया।

मानव संसाधन विकास

संस्थान के वैज्ञानिकों ने "जलकृषि ड्रग्स" पर आयोजित कार्यशाला तथा "एन.ए.आर.एस. के लिए वोर्टल्स अभिकल्पना", "जीवित आहार अवयव का पालन" व "मानव संसाधन विकास के नेतृत्व" पर आयोजित प्रशिक्षण कार्यक्रमों में भाग लिया।

प्रशिक्षण

केखाजपाअसं. मुख्यालय, चेन्नई में 7-11 जनवरी, 2002 के दौरान खारेपानी जलकृषि हेतु प्रसार प्रणालियों पर प्रशिक्षण कार्यक्रम आयोजित किया गया।

केखाजपाअसं. मुख्यालय, चेन्नई व मुत्तुकाडु प्रायोगिक केन्द्र पर व्याख्यानों व प्रदर्शनों का आयोजन किया गया।

पीएच.डी. उपाधि

डॉ. (श्रीमती) बी. शान्ति, वैज्ञानिक (वरिष्ठ वेतनमान) को पीएच.डी. उपाधि प्रदान की गई।

स्टाफ समाचार नियुक्ति

17-1-2002 को श्री महेश कुमार की किनष्ट हिन्दी अनुवादक के पद पर नियुक्ति हुई।

18-2-2002 को श्री के.वी. डेल्ली राव, एस.एस.जी.आर. I ने किनष्ठ लिपिक के रूप में कार्यभार ग्रहण किया।

पदोन्नति

संस्थान के 6 वैज्ञानिकों व 9 तकनीकी कर्मचारियों को अगले उच्च ग्रेड में पदोन्नत किया गया।

सेवा-निवृत्ति

डॉ. जी.आर.एम. राव, निदेशक 28-2-2002 को सेवा-निवृत्त हुए।