

## Report

### **Block Level Consultation: ‘Farming System for Nutrition to address Malnutrition’**

**Venue: Mission Shakti Conference Hall, Boipariguda Block**

**Date: Thursday, April 27, 2017**

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A block level consultation on “Farming System for Nutrition to address Malnutrition” was organised by the M S Swaminathan Research Foundation under the aegis of the TATA TRUSTS and the LANSAs research programme in Boipariguda, Koraput district on Thursday, 27 April, 2017. Organised jointly with the office of the Block Development Officer (BDO), the event was held at Mission Shakti Conference Hall, Boipariguda Block office. The meeting was organized to share and discuss the experience and insights from the ongoing Farming System for Nutrition (FSN) study under LANSAs in Boipariguda with block level officials from different departments, administrative personnel, PRI members and farmers. The Agenda is in Annex I.

A total of 135 participants from Government line departments such as: Block Administration, Agriculture Department, Fishery Department, ICDS Department, Panchayati Raj Department, Forest Department; PRI members: Sarpanch and Panchayat Samiti members from the 20 Gram Panchayats under Boipariguda block, progressive farmers, NGOs and staff from MSSRF participated in the consultation.

Sushanta Sekhar Chaudhury, Director (I/C), MSSRF, Jeypore, welcomed the gathering.

#### **Keynote address by Sri Mataram Leyangi (OAS), BDO, Boipariguda:**

M. Leyangi expressed that it was a good opportunity for the line departments to know about the concept of addressing malnutrition through farming system and they should all focus on how it can be communicated to people at village level.



*BDO addressing the gathering*

**Dr. Aliza Pradhan, Coordinator of the FSN study, LANSAs, MSSRF** gave a brief review of the LANSAs research programme highlighting its focus on leveraging agriculture for nutrition and the rationale for the Farming System for Nutrition (FSN) study. She pointed out



*Dr. Aliza giving brief overview the programme*

how FSN is different from other agriculture related programmes as the interventions under FSN are designed taking into account the nutrition dimension as a major component to be addressed by the farming systems along with other regular components such as productivity, profitability and sustainability. She also mentioned about the study sites, purpose of their selection and major steps included while finalising the core interventions for the area.

**Akshaya Kumar Panda, Coordinator of the FSN Study under LANSA MSSRF, Jeypore**

presented the detailed process of the FSN study underway in Boipariguda Block. Eradication of malnutrition through agriculture intervention is the main objective of the FSN study. He focused on the agriculture-nutrition disconnect of the study area and the potential activities included under FSN to address the nutrition deficiencies. He mentioned that the project started in 2013 in seven villages under Boipariguda Block with 658 households with detailed baseline survey on socio economic, agriculture and nutrition status of the communities were conducted;



*Akshaya Panda presenting the FSN interventions in Boipariguda*

**Some of the key findings of baseline survey were:**

- The overall prevalence of chronic energy deficiency is (CED: BMI <18.5) higher among women than men.
- Thirty five per cent children in the age group of 0-60 months are stunted.
- More than 50 per cent of women & children are anaemic; a third of children under 5 affected by VAD
- More than 90 per cent households practice open defecation
- Diet was found to be largely cereal dominated with consumption of all other food groups being less than the recommended levels

Akshaya Panda mentioned that in order to bridge the gap between agriculture and nutrition, these results were presented to the village communities and FSN interventions were designed in consultation with members of the community and researchers. It includes improved agronomic practices, seed treatment and intercropping practices, not only to improve productivity but also to enhance the availability of nutritious food to tribal households. The core FSN interventions focus on improved varieties of millet, pulse (pigeon pea, green gram and black gram) and bio-fortified crops (orange flesh sweet potato) as well as growing different groups of seasonal vegetables (roots, leafy vegetables, fruits, tubers etc) along with planting of naturally fortified plants such as *moringa*, lemon, papaya in backyard nutrition gardens.

Nutrition gardens have been established in four schools and two *anganwadi* centres where the produce is being utilised in the midday meal (MDM). Further, as a source of animal protein, fishery has been undertaken by 131 farmers managing 64 ponds (56 individual, 6 group, and 2 community ponds). Besides, several nutrition awareness programmes are also being organized focusing on importance of balanced diet, dietary diversity, advantage of including nutritious foods in their daily diet, health and sanitation etc. Currently, training programmes are being conducted to build the capacity of selected members from the community as resource persons or Community Hunger Fighters (CHF) to make people aware about nutrition and healthy diets. The distribution of triple layered storage bags among farmers for safe seed storage was also highlighted by him. Mr. Panda highlighted how the FSN study starting in 2013 with on-farm demonstrations with 14 farmers had reached 1048 farmers in 2016.

### ***Farmers sharing their Experience:***

#### **Brundaban Naik, Farmer, Chikma village**

Brundaban Naik, expressed that he had undergone training on SRI in paddy and developed skills especially in line transplanting. It was remarkable experience for him that he realized that input cost was less compared to traditional practices and income is more. He has constructed an onion storage structure through the support of the Government.



***Brundaban Naik (Chikma)***

#### **Ghasamani Dalei, Community Hunger Fighter (CHF), Banuaguda village**



Ghasimani Dalei, a progressive farmer and a CHF, explained how she learned the importance of FSN concept. She was actively involved in creating awareness in villages on need and requirement of nutritious food for children, pregnant and lactating mothers. She expressed that the consumption of millet and pulses gave them considerable energy for doing hard work. They get eggs and mixed powder from ICDS for

***Ghasamani Dalei (CHF)***

children and for the pregnant mothers. She also practices line transplanting in paddy crop cultivation.

### **Ghenu Khillo, Farmer, Atalguda village**

Ghenu Khilo a farmer expressed that, he had undergone training SRI in paddy cultivation especially line transplantation. He also learned the importance of seed treatment from the agriculture department. He is also actively involved in backyard kitchen garden where he grows papaya, vegetables and climbers in addition to newly introduced orange flesh sweet potato. Earlier, he did not have any idea on importance of consuming carrot and coriander. Now through FSN awareness programs, he has started consuming carrot and coriander. He is also participating in the fish farming activity and practicing intercropping of maize and pigeon pea under FSN intervention.



*Ghenu Khilo (Atalguda)*

### **Sania Hantal, CHF, Atalguda village**

Sania Hantal, a CHF is involved in cultivation of pigeon pea, green gram and black gram. He gained enough knowledge on improved cultivation practices such as inter cropping from the FSN programme as well as government department. He is actively practising line transplanting in ragi cultivation and also inter cropping of maize and pigeon pea.



### **Agriculture Officer, Boipariguda**

The Agriculture Officer remarked that green gram cultivation promoted by the project is often affected by pest and disease. He also expressed that most of the farmers do not apply gypsum at regular intervals which results in poor pegging and pod formation, thereby drastically reducing the yield and suggested that we all should make the farmers aware about importance of micronutrient application (Ca and S) in groundnut.

*Agriculture Officer sharing his experience*

### **Fishery Officer (FO), Jeypore**

The FO highlighted that to cater the need of protein at household level, fish is one of the rich sources of protein; Pisciculture should be promoted in farmers' ponds. Schemes were available to dig farm pond and government provided Rs. 30000/- support to the farmers for multipurpose farm pond. One of farmers reported that the fingerling provided by the fishery department was not productive and gave poor yield compared to commercial suppliers. He mentioned that timely supply of fingerlings is also a major concern. Based on the technical queries raised by farmers, the FO made a presentation on yield improvement in pisciculture.



***Bijay Kumar Sahu, FO, giving presentation on fishery***

### **Bhagirathi Murjia (Sarpanch, Boipariguda)**

Bhagirathi requested the project staff to present a comparison of the current and baseline nutritional status of the people to which the FSN staff mentioned that the endline survey is scheduled to be conducted this year from June, and the results will be shared in a similar kind of meeting.



***Sarpanch, Boipariguda sharing his feedback***



***Sunita expressing her concern regarding awareness***

### **Sunita Mohapatra: (Anganwadi Supervisor)**

Sunita Mohapatra, an Anganwadi supervisor felt that general awareness was lacking especially among women so that there is necessity to create awareness on all aspects along with nutrition. Traditionally women are the last to take food in the household without giving much importance to their health; this was also one of the factors.

## Uma Mahesh, Range Officer, Forest Department

Uma Mahesh, began by saying that he had been seeing MSSRF's work over the past 20 years. He expressed that MSSRF always believed in Lab to Land concept with the major focus on welfare of tribal communities. He also expressed that the traditional consumption practice of tribals i.e. ragi, tubers and forest fruits etc were more nutritious and as the pattern is changing with more people going for cash crop such as eucalyptus as well as deforestation is leading towards occurrence of malnutrition in the area. He further mentioned that Forest



Department has introduced 'Sundarkani' a high yielding bamboo variety in the forest area for the benefit of farmers. Other NGOs such as PRAYAS are also involved in promotion of tapioca cultivation. He highlighted the importance of afforestation programme and conservation of wild varieties and resources to maintain ecological balance and protect the environment. He requested MSSRF to work towards making this block as a model block.

*Forest Range Officer sharing his thoughts*

**Child Development Program officer (CDPO), Boipariguda Block:** The CDPO insisted that food deficiency was observed among tribal communities during harvesting period and malnutrition is more prevalent during this period. She also advised farmers to practice organic cultivation



*CDPO sharing her views on the FSN concept*



*Block vice chairman sharing his views on malnutrition*

**Block Vice Chairman:** The Vice Chairman, Boipariguda Block explained that nowadays children prefer to consume foods like Maggi noodles. He felt that malnutrition is noticed not only in poor but also existed among rich families also. The government had launched many schemes and spent lot of funds but it failed to reach people. He advised farmers should concentrate on organic farming to produce quality foods.

**Block Chairperson:** She expressed that awareness creation in the community is most important. Villagers should come forward and participate in meetings and trainings otherwise they will be of no value. More efforts were made from the government for the welfare of the people but due to lack of awareness, they do not succeed. She also suggested that the mothers should be more active when the nutrition related programmes are under consideration.



*Block vice chairman sharing his views on malnutrition*

### **Concluding remarks by the BDO:**

The BDO started by highlighting the importance of agricultural land and its role in enhancing agriculture production. He expressed that the *Mali* community was the one who utilized the land properly. He also emphasized the need to maintain soil fertility through organic farming and to avoid use of chemical fertilizers. He further highlighted that each farmer should actively get involved in agriculture to become self dependent and must learn to know how to convert solid waste to useful compost which would enhance the fertility of the soil. He also proudly said that “Koraput is the Himalaya of Odisha”. Proper utilisation of available resource is important otherwise it will result in more migration of people in future. He expressed the importance of nutritious food which is essential for healthy life. He also insisted on importance of crop rotation, water conservation and literacy program for the people. He mentioned that government had provided support for pond digging and various other schemes were available for the farmers.

The meeting ended with vote of thanks by **Jagannath Naik**, Technical Assistant, LANSA, MSSRF, Jeypore.

*Event Agenda: Annex I*

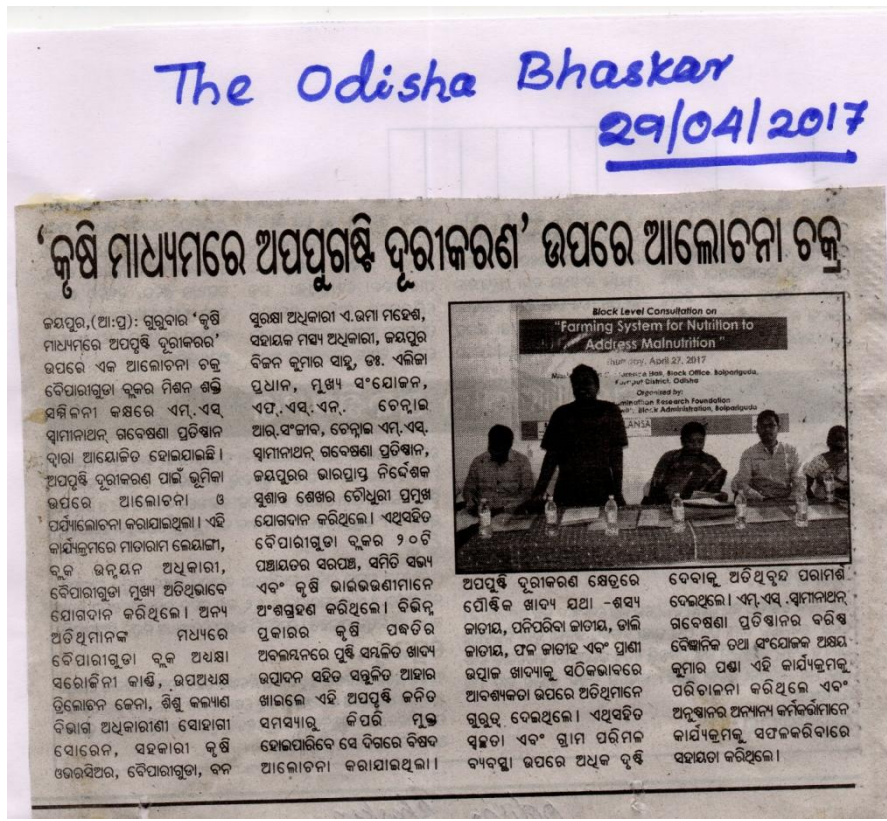
*Reports in the local media: Annex II.*

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<b>Block level Consultation on “Farming System for Nutrition to Address Malnutrition</b>
<b>Thursday, April 27, 2017</b>
<b>Mission Shakti Conference Hall, Block Office, Boipariguda</b>
<b>Agenda</b>

<b>Topic</b>	<b>Responsibilities</b>
Registration	Susanta Kumar Mishra and Anurakta Beuria
Welcome	Susanta Sekhar Choudhury, Director (i/c), MSSRF, Jeypore
Keynote Address	Mataram Leyangi, BDO, Boipariguda
Overview of the Programme	Aliza Pradhan, Coordinator, FSN Study under LANSA, MSSRF
FSN Study in Boipariguda	Akshaya Kumar Panda, Coordinator, FSN Study in Koraput, MSSRF, Jeypore
Sharing of experience by farmers	Brundaban Nayak, Chikima Ghasamani Dalei, Banuaguda Ghenu Khillo, Atalguda Sania Hantal, Atalguda
Feedback by participants	Moderated by Akshaya Kumar Panda, MSSRF
Special Remarks	Asst. Fishery Officer, Jeypore Range Officer, Boipariguda Asst. Agriculture Officer, Boipariguda CDPO, Boipariguda Vice- Chairman, Boipariguda Block Chairperson, Boipariguda Block
Concluding Remarks	Mataram Leyangi, BDO, Boipariguda
Vote of thanks	Jagannath Naik, MSSRF, Jeypore
Lunch	





# The Sarbasadharaan

29/04/2017

## 'କୃଷି ମାଧ୍ୟମରେ ଅପପୁଷ୍ଟି ଦୂରୀକରଣ' ଉପରେ ଆଲୋଚନାଚକ୍ର

ବୈପାରିଗୁଡ଼ା, ୨୮।୪ (ଆପ୍): ସ୍ଥାନୀୟ ମିଶନ୍ ଶକ୍ତି ସମ୍ମିଳନୀ କକ୍ଷରେ ଏମ୍.ଏସ୍. ସ୍ୱାମୀନାଥନ, ଗବେଷଣା ପ୍ରତିଷ୍ଠାନ ଦ୍ୱାରା 'କୃଷି ମାଧ୍ୟମରେ ଅପପୁଷ୍ଟି ଦୂରୀକରଣ' ଉପରେ ଏକ ଆଲୋଚନା ଚକ୍ର ଆୟୋଜିତ ହୋଇଥିଲା । ଏଥିରେ ଅପପୁଷ୍ଟି ଦୂରୀକରଣ ପାଇଁ କୃଷିର ଭୂମିକା ଉପରେ ଆଲୋଚନା ଓ ପର୍ଯ୍ୟାଲୋଚନା ହୋଇଥିଲା । ଏହି କାର୍ଯ୍ୟକ୍ରମରେ ବୈପାରିଗୁଡ଼ା ବ୍ଲକ୍ ଉନ୍ନୟନ ଅଧିକାରୀ ମାତାରାମ କେଶରୀ ମୁଖ୍ୟ ଅତିଥି ଭାବେ ଯୋଗ ଦେଇଥିଲେ । ଅନ୍ୟ ଅତିଥିଙ୍କ ମଧ୍ୟରେ ଥିଲେ ବୈପାରିଗୁଡ଼ା ବ୍ଲକ୍ ଅଧ୍ୟକ୍ଷା ସରୋଜିନୀ କାଣ୍ଡକ, ଉପାଧ୍ୟକ୍ଷ ତ୍ରିଲୋଚନ କେନା, ଶିଶୁ କଲ୍ୟାଣ ବିଭାଗ ଅଧିକାରୀ ସୋହାଗା ସୋରେନ୍, ବୈପାରିଗୁଡ଼ା ବ୍ଲକ୍ ସହକାରୀ କୃଷି ଓ ଉତ୍ପାଦନ, ବନ ସ୍ତରଣ ଅଧିକାରୀ ଏ. ଉମା ମହେଶ୍ୱରୀ, ଜୟପୁରର ସହାୟକ ମହା ଅଧିକାରୀ ବିଜୟ କୁମାର ସାହୁ, ଡ. ଏଲିଜା



ପୁଥାନ, ମୁଖ୍ୟ ସଂଯୋଜକ ଏମ୍.ଏସ୍.ଏନ୍. ଚେନ୍ନାଇ, ଆର୍. ସଞ୍ଜିବ, ଚେନ୍ନାଇ, ଏମ୍.ଏସ୍. ସ୍ୱାମୀନାଥନ, ଗବେଷଣା ପ୍ରତିଷ୍ଠାନ, ଜୟପୁରର ଭାରତୀୟ ନିର୍ଦ୍ଦେଶକ ସୁଶୀଳ ଶେଖର ଚୌଧୁରୀ । ବୈପାରିଗୁଡ଼ା ବ୍ଲକ୍ ୨୦ଟି ପଞ୍ଚାୟତର ସରପଞ୍ଚ, ସମିତିସଭ୍ୟ ଓ ଚାଷୀଭାଇମାନେ ଅଂଶଗ୍ରହଣ କରିଥିଲେ । ବିଭିନ୍ନ କୃଷି ପଦ୍ଧତିର ଅବଲମ୍ବନ କରି ପୁଷ୍ଟି ସମ୍ବଳିତ ଖାଦ୍ୟଦ୍ରବ୍ୟର ଉତ୍ପାଦନ ସହ ସବୁଜିତ ଆହାର ଖାଇଲେ ଏହି ଅପପୁଷ୍ଟି ଜନିତ ସମସ୍ୟାରୁ କିମ୍ପା ମୁକ୍ତ ହୋଇପାରିବେ ସେ ଦିଗରେ ବିଶଦ ଆଲୋଚନା ହୋଇଥିଲା । ଅପପୁଷ୍ଟି ଦୂରୀକରଣ

କ୍ଷେତ୍ରରେ ପୌଷ୍ଟିକ ଖାଦ୍ୟ ଯଥା- ଶସ୍ୟଜାତୀୟ, ପରିପରିବା, ତାଳି ଜାତୀୟ, ପକ ଓ ପ୍ରାଣୀ ଉତ୍ପତ୍ତ ଖାଦ୍ୟକୁ ସଠିକ୍ ଭାବେ ଖାଇବାର ଆବଶ୍ୟକତା ଉପରେ ଅତିଥିମାନେ ଗୁରୁତ୍ୱ ଦେଇଥିଲେ । ଏଥି ସହିତ ସୁସ୍ୱାଦୁ ଓ ପରିମଳ ବ୍ୟବସ୍ଥା ଉପରେ ଅଧିକ ଦୃଷ୍ଟି ଦେବାକୁ ଅତିଥିଗୁଡ଼ିକ ପରାମର୍ଶ ଦେଇଥିଲେ । ଏମ୍.ଏସ୍. ସ୍ୱାମୀନାଥନ, ଗବେଷଣା ପ୍ରତିଷ୍ଠାନର ବରିଷ୍ଠ ବୈଜ୍ଞାନିକ ତଥା ସଂଯୋଜକ ଅକ୍ଷୟ କୁମାର ପଣ୍ଡା ଏହି କାର୍ଯ୍ୟକ୍ରମକୁ ପରିଚାଳନା କରିଥିଲେ ଏବଂ ଅନୁଷ୍ଠାନର ଅନ୍ୟାନ୍ୟ କର୍ମକର୍ତ୍ତାମାନେ କାର୍ଯ୍ୟକ୍ରମକୁ ସଫଳ କରିବେ ସହାୟତା କରିଥିଲେ ।

# The Anupam Bharat

29/04/2017

## କୃଷି ମାଧ୍ୟମରେ ଅପପୁଷ୍ଟି ଦୂରୀକରଣ ଉପରେ ଆଲୋଚନା ଚକ୍ର

ବୟାସ, ୨୮।୪ (ଅପ୍.ପ୍ର.ମ ନିମିତ୍ତ): କୃଷି ମାଧ୍ୟମରେ ଅପପୁଷ୍ଟି ଦୂରୀକରଣ ଉପରେ ଏକ ଆଲୋଚନା ଚକ୍ର ବୈପାରିଗୁଡ଼ା ବ୍ଲକ୍ ମିଶନ୍ କକ୍ଷରେ ଏକ ଆଲୋଚନା ଚକ୍ର ଆୟୋଜିତ ହୋଇଥିଲା । ଏଥିରେ ଅପପୁଷ୍ଟି ଦୂରୀକରଣ ପାଇଁ କୃଷିର ଭୂମିକା ଉପରେ ଆଲୋଚନା ଓ ପର୍ଯ୍ୟାଲୋଚନା ହୋଇଥିଲା । ଏହି କାର୍ଯ୍ୟକ୍ରମରେ ବୈପାରିଗୁଡ଼ା ବ୍ଲକ୍ ଉନ୍ନୟନ ଅଧିକାରୀ ମାତାରାମ କେଶରୀ ମୁଖ୍ୟ ଅତିଥି ଭାବେ ଯୋଗ ଦେଇଥିଲେ । ଅନ୍ୟ ଅତିଥିଙ୍କ ମଧ୍ୟରେ ଥିଲେ ବୈପାରିଗୁଡ଼ା ବ୍ଲକ୍ ଅଧ୍ୟକ୍ଷା ସରୋଜିନୀ କାଣ୍ଡକ, ଉପାଧ୍ୟକ୍ଷ ତ୍ରିଲୋଚନ କେନା, ଶିଶୁ କଲ୍ୟାଣ ବିଭାଗ ଅଧିକାରୀ ସୋହାଗା ସୋରେନ୍, ବନ ସ୍ତରଣ ଅଧିକାରୀ ଏ. ଉମା ମହେଶ୍ୱରୀ, ସହାୟକ ମହା



ଅଧିକାରୀ ବିଜୟ କୁମାର ସାହୁ, ଡ. ଏଲିଜା ସମିତ ପୁଥାନ, ଆର୍. ସଞ୍ଜିବ ଏବଂ ଜୟପୁରର ସହାୟକ ମହା ଅଧିକାରୀ ବିଜୟ କୁମାର ସାହୁ

ନିର୍ଦ୍ଦେଶକ ସୁଶୀଳ ଶେଖର ଚୌଧୁରୀ ପ୍ରମୁଖ ଭାଗ ନେଇଥିଲେ । ଏହି ଆଲୋଚନାଚକ୍ରରେ ବୈପାରିଗୁଡ଼ା ବ୍ଲକ୍ ୨୦ଟି ପଞ୍ଚାୟତର ସରପଞ୍ଚ,

ସମିତିସଭ୍ୟ ଏବଂ ଚାଷୀଭାଇମାନେ ଉପସ୍ଥିତ ଥିଲେ । ବିଭିନ୍ନ ପ୍ରକାରର କୃଷି ପଦ୍ଧତିର ଅବଲମ୍ବନ ପୁଷ୍ଟି ସମ୍ବଳିତ ଖାଦ୍ୟ ଦ୍ରବ୍ୟର ଉତ୍ପାଦନ ସହିତ ସବୁଜିତ ଆହାର

ଖାଇଲେ ଏହି ଅପପୁଷ୍ଟି ଜନିତ ସମସ୍ୟାରୁ କିମ୍ପା ମୁକ୍ତ ହୋଇପାରିବେ ସେ ଦିଗରେ ବିଶଦ ଭାବେ ଆଲୋଚନା କରାଯାଇଥିଲା । ଅପପୁଷ୍ଟି ଦୂରୀକରଣ କ୍ଷେତ୍ରରେ ପୌଷ୍ଟିକ ଖାଦ୍ୟ ଶସ୍ୟ ଜାତୀୟ, ପରିପରିବା ଜାତୀୟ, ତାଳି ଜାତୀୟ, ପକ ଜାତୀୟ, ଏବଂ ପ୍ରାଣୀ ଉତ୍ପତ୍ତ ଖାଦ୍ୟକୁ ସଠିକ୍ ଭାବେ ଖାଇବାର ଆବଶ୍ୟକତା ଉପରେ ଅତିଥିମାନେ ଗୁରୁତ୍ୱ ଦେଇଥିଲେ । ଏଥି ସହିତ ସୁସ୍ୱାଦୁ ଏବଂ ପରିମଳ ବ୍ୟବସ୍ଥା ଉପରେ ଅଧିକ ଦୃଷ୍ଟି ଦେବାକୁ ଅତିଥିମାନେ ପରାମର୍ଶ ଦେଇଥିଲେ । ଏମ୍.ଏସ୍. ସ୍ୱାମୀନାଥନ, ଗବେଷଣା ପ୍ରତିଷ୍ଠାନର ବରିଷ୍ଠ ବୈଜ୍ଞାନିକ ତଥା ସଂଯୋଜକ ଅକ୍ଷୟ କୁମାର ପଣ୍ଡା କାର୍ଯ୍ୟକ୍ରମକୁ ପରିଚାଳନା କରିଥିଲେ ଏବଂ ଅନୁଷ୍ଠାନର ଅନ୍ୟାନ୍ୟ କର୍ମକର୍ତ୍ତାମାନେ ସଫଳ କରିବେ ସହାୟତା କରିଥିଲେ ।