



A DEPARTMENTAL SEMINAR

ON

“Natural Farming” The call of the present day Agriculture

Resource Person

**Dr. Tapas Ranjan Sahoo, Scientist, Agronomy
Krishi Vigyan Kendra, Kendrapara**

On

22nd February 2023

DEPARTMENT OF BOTANY

PATTAMUNDAI COLLEGE

PATTAMUNDAI

KENDRAPARA

754215

REPORT

A Departmental Seminar for the session 2022-23 was organized by Department of Botany, Pattamundai College, Pattamundai on dated 22.03.2023 on the topic "NATURAL FARMING, The call of the present day Agriculture". Dr. Tapas Ranjan Sahoo, Scientist, Agronomy, Krishi Vigyan Kendra, Kendrapara joined the seminar as a resource person.

The meeting was presided over by Dr. Premalata Rout, Principal, Pattamundai College, Pattamundai. The meeting was commenced at 10.30 A.M with the lighting of candle by our respected guest. Departmental Head Dr. Anjali Kumari Dash gave a key note address of the topic and welcomed the guests to the dais.

The meeting was ended with a vote of thanks by Mrs. Suchismita Biswal, a faculty of Botany at 2.30 P.M.

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Anjali Kumari Dash

In natural farming chemical or organic fertilizers are not added into the soil in fact, decomposition of organic matter by microbes and earthworms is encouraged right on the soil surface itself, which gradually adds nutrition in the soil, over the period.

It is a diversified farming system that integrates crops, trees and livestock, allowing the optimum use of functional biodiversity. Natural farming if done effectively enhances farmers' income while delivering many other benefits, such as restoration of soil fertility and environmental health, reducing greenhouse gas emissions. Natural Farming builds on natural or ecological processes that exist in or around farms.

This farming approach was **introduced by Masanobu Fukuoka, a Japanese farmer and philosopher**, in his 1975 book *The One-Straw Revolution*.

Shri Subhash Palekar introduced natural farming in India. He is an agricultural scientist who pioneered the concept of Natural Farming in the country. Palekar drew his inspiration from ancient Indian farming techniques, at the heart of which are cow dung and cow urine.

There are several states practicing Natural Farming. Prominent among them are Andhra Pradesh, Chhattisgarh, Kerala, Gujarat, Himachal Pradesh, Jharkhand, Odisha, Madhya Pradesh, Rajasthan, Uttar Pradesh and Tamil Nadu.

Internationally, Natural Farming is considered a form of regenerative agriculture—a prominent strategy to save the planet.

In India, Natural farming is promoted as *Bhartiya Prakritik Krishi Paddhati Programme (BPKP)* under **Paramparagat Krishi Vikas Yojana (PKVY)**.

BPKP is aimed at promoting traditional indigenous practices which reduce externally purchased inputs.

Features of Natural Farming

According to natural farming principles, plants get 98% of their supply of nutrients from the air, water, and sunlight. And the remaining 2% can be fulfilled by good quality soil with plenty of friendly microorganisms. (Just like in forests and natural systems)

The soil is always supposed to be covered with organic mulch, which creates humus and encourages the growth of friendly microorganisms.

Farm made bio-cultures named 'Jeevamrit, Beejamrit etc.' are added to the soil instead of any fertilizers to improve microflora of soil. Jeevamrit, Beejamrit are derived from very little cow dung and cow urine of desi cow breed.

It holds the promise of enhancing farmers' income while delivering many other benefits, such as restoration of soil fertility and environmental health, and mitigating and/or reducing greenhouse gas emissions.

The system requires cow dung and cow urine (Gomutra) obtained from Indian breed cow only. Desi cow is apparently the purest as far as the microbial content of cow dung, and urine goes.

In natural farming, neither chemical nor organic fertilizers are added to the soil. In fact, no external fertilizers are added to soil or given to plants whatsoever.

In natural farming, decomposition of organic matter by microbes and earthworms is encouraged right on the soil surface itself, which gradually adds nutrition in the soil, over the period.

In natural farming there is no ploughing, no tilting of soil and no fertilizers, and no weeding is done just the way it would be in natural ecosystems.

Natural, farm-made pesticides like Dashparni ark and Neem Astra are used to control pests and diseases.

Weeds are considered essential and used as living or dead mulch layer.

Multi-cropping is encouraged over single crop method.

Natural Farming aims to make farming viable and aspirational by increasing net incomes of farmers on account of cost reduction, reduced risks, similar yields, incomes from intercropping. Natural farming generates employment on account of natural farming input enterprises, value addition, marketing in local areas, etc.

The four pillars of ZBNF are:

Jivamrita/jeevamrutha.

Bijamrita/beejamrutha.

Acchadana – mulching.

Whapasa – moisture.



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PATTAMUNDAI COLLEGE

NAAC ACCREDITED B GRADE

PATTAMUNDAI, KENDRAPARA, ODISHA - 754215

Ref No. :230.....

Date.....20/02/2023.....

To

Dr. Suryanarayan Mishra, Chief Scientist,
Krishi Vigyan Kendra, Kendrapara

Sub:-Request to depute a scientist to be the resource person in the Departmental Seminar of Botany.

Esteemed Sir,

The Department of Botany of Pattamundai College, Pattamundai in the District of Kendrapara is one of the most vibrant one with excellent academic track records since its inception.

The department of Botany is organizing a Departmental Seminar on 22-02-2023. In this context you are requested to depute a scientist as a resource person in the field of Agronomy.

Waiting for a quick action and kind consent from your end.

With Regards.


(Dr. Premalata Rout)
Principal
Principal
Pattamundai College

From

**Dr. Tapas Ranjan Sahoo, Scientist, Agronomy
Krishi Vigyan Kendra, Kendrapara**

Sub: - Consent to act as Resource person at Departmental Seminar of Dept. of Botany, Pattamundai College on Dated 22nd February 2023

Madam,

With reference to letter No. 230 dated 20.02.23 I am happy to inform you that I will be the Resource person in Departmental Seminar on 22nd February which is going to be organized by Department of Botany of your institution.

Waiting to meet you

With Regards

Tapas Ranjan Sahoo
Dr. Tapas Ranjan Sahoo

Department of Botany
Pattamundai College, Pattamundai,
Attendance Sheet of Students

Sl No	Roll No	Signature
1	BS(B)20-012	Smmuti Sonalika Patra
2	BSC(B)20-027	Railaxmi Mishra
3	BS(B)20-016	Swapna rani Rout
4	BS(B)20-031	Adyasha panda
5	BS(B)21-028	Ananya priyadarshani mishra
6	BS(B)21-014	Subhalaxmi Das
7	BS(B)21-011	Sandhya rani Rout
8	BS(B)21-032	Pratipranga Khutua
9	BS(B)-22-022	Nilani Jena
10	BS(B)-22-032	Arpita Sthal.
11	BS(B)-22-024	Puja Priyadarshini Kar
12	BS(B)-22-035	Arpita Samal
13	BS(B)-22-027	Anisha Biswal
14	BS(B)-22-020	Barsharani Bhuyan
15	BS(B)20-034	Anusuya Das
16	BS(B)20-009	Pratanka Priyadarshini Bal
17	BS(B)20-029	Anusripsha Dash.
18	BS(B)20-035	Srutisudha Jena
19	BS(B)-21-027	Tarangini Biswal
20	BSC(B)20-030	Saehidananda Saha
21	BS(B)20-007	Debaraj Pethi
22	BS(B)21-039	Jenny Pradhan

Sl No	Roll No	Signature
23	BSC(B)21-023	Debasis Das
24	BSC(B)21-035	Vivekananda Jena
25	BS(B)21-008	Amraparna Malik
26	BSC(B)21-033	Shrabani Sandhya Swain
27	BS(B)21-034	Lipishree Rout
28	BS(B)21-037	Subhara Kum. Pradhan
29	BSC(B)21-007	Aswini Kumer Samal
30	BSC(B)21-012	Ashisa Tamar
31	BS(B)22-036	Subhansree Swain
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Pattamundai, Odisha, India

HHGF+882, Pattamundai, Odisha 754215, India

Lat N 20° 34' 32.088"

Long E 86° 34' 23.4228"

22/02/23 12:27 PM GMT +05:30



Pattamundai, Odisha, India

HHGF+882, Pattamundai, Odisha 754215, India

Lat N 20° 34' 32.0304"

Long E 86° 34' 23.6388"

22/02/23 12:00 PM GMT +05:30

ପଟ୍ଟାମୁଣ୍ଡାଇ କଲେଜରେ ଉତ୍ତମ ବିଜ୍ଞାନ ସେମିନାର



ପଟ୍ଟାମୁଣ୍ଡାଇ, ୨୪ ୧୨ (ନିପ୍ତ): ପଟ୍ଟାମୁଣ୍ଡାଇ କଲେଜ ଉତ୍ତମ ବିଜ୍ଞାନ ବିଭାଗ ପକ୍ଷରୁ ପ୍ରାକୃତିକ ଚାଷ କୃଷି ପାଇଁ ଆଜିର ଆହ୍ୱାନ ଶୀର୍ଷକ ଆଲୋଚନାଚକ୍ର ଅନୁଷ୍ଠିତ ହୋଇଯାଇଛି । କଲେଜ ଅଧ୍ୟକ୍ଷା ପ୍ରଫେସର ଡ. ପ୍ରେମଲତା ରାଉତଙ୍କ ପୌରୋହିତ୍ୟରେ ଆୟୋଜିତ ଆଲୋଚନାଚକ୍ରରେ ଜଣେ କୃଷିବିଜ୍ଞାନ କେନ୍ଦ୍ର ବୈଜ୍ଞାନିକ ଡ.ତାପସ ରଞ୍ଜନ ସାହୁ ପ୍ରାକୃତିକ ଚାଷର ଉପକାରିତାର ବିଭିନ୍ନ ଦିଗ ଉପରେ ଆଲୋଚନା କରିଥିଲେ । ଉତ୍ତମ ବିଜ୍ଞାନ ବିଭାଗ ମୁଖ୍ୟ ଡ. ଅଞ୍ଜଳି ଦାଶ ସ୍ୱାଗତଭାଷଣ ଦେଇଥିଲେ । ଅଧ୍ୟାପିକା ଶୁଚିସ୍ମିତା ବିଶ୍ୱାଳ ଧନ୍ୟବାଦ ଦେଇଥିଲେ । କାର୍ଯ୍ୟକ୍ରମକୁ ତେମୋନକ୍ଷେତ୍ରରେ ଅଭିମନ୍ୟୁ ମହାନ୍ତି ପରିଚାଳନା କରିଥିଲେ ।