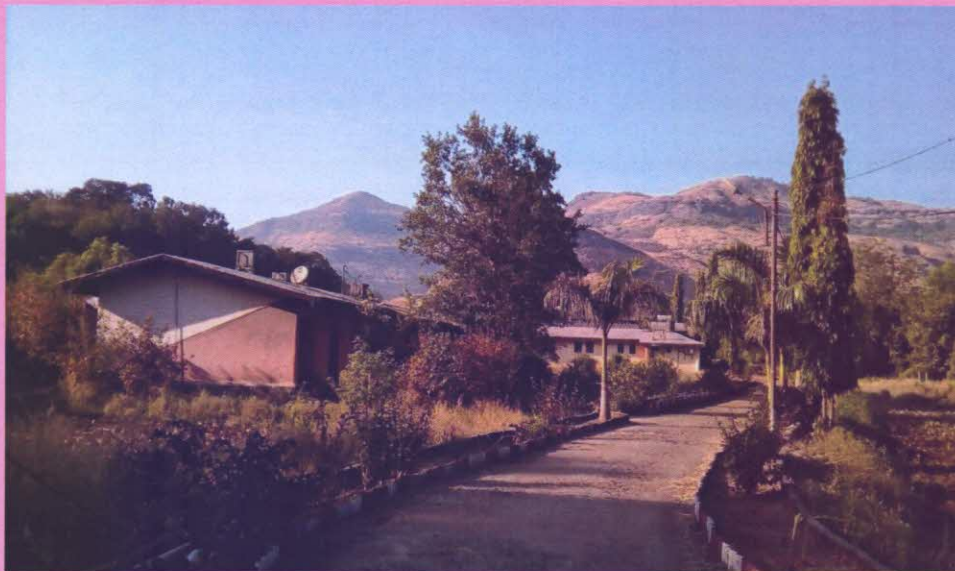


for official use only

REPORT OF PRODUCT TESTING TRIAL 2019-20



**Effect of RCM-HARIT SANJIVANI on Growth, Yield
and Nutrient Uptake of paddy**



SUBMITTED BY
ASSOCIATE DIRECTOR OF RESEARCH
ZONAL AGRICULTURAL RESEARCH STATION
WESTERN GHAT ZONE, IGATPURI,
DIST. NASIK – 422403

Title of the Project : **Effect of RCM-HARIT SANJIVANI on growth, yield, nutrient uptake of paddy**

1.) Name and address of Research Institute : Zonal Agricultural Research Station, Igatpuri,
Dist. Nasik – 422 403

2.) A.) Name of Implementing officer : Dr. Y. J. Patil, Assistant Professor (Soil Sci. & Agril. Chemistry), ZARS, Igatpuri, Dist. Nasik

B.) Name of staff Associated : Dr. D. V. Kusalkar, Associate Director of Research,
ZARS, Igatpuri, Dist. Nasik
Dr. H. M. Patil, Associate Professor (Agronomy),
ZARS, Igatpuri, Dist. Nasik
Dr. S. D. Patil, Asstt. Professor (Agril. Entomology)
ZARS, Igatpuri, Dist. Nasik

3.) Name of Company : M/S. Vyenkatesh Agrotrade Pvt. Ltd.,
D-13, Silver Heights, Opp. Hotel Sandeep, Gurudvara
Road, Mumbai Naka, Nasik- 422 009

4.) Product : RCM-HARIT SANJIVANI
Crop:- Paddy

5.) Crop and Season : **Season :-** Kharif 2019

6.) Type of study : Growth, yield, chlorophyll and uptake of nutrients


7.) Pest/disease/weed/testing of seed etc. : Testing of the product (RCM-HARIT SANJIVANI)

8.) Amount Received (DD no.) : Rs. 70,000/-, DD No. 271894 dated-25 /07/2019

9.) 10 % institutional charges remitted DD no.& date : Rs. 7,000/-, Cheque No.627325 dated-13/09/2019

10.) Acceptance letter of DOR Office : DOR/ADR/DDR-III/T-3/TEST/953/2019, dated- 4 July 2019


Assistant Professor
Soil Science & Agril. Chemistry
ZARS, Igatpuri-422 403 (Nashik)


ASSOCIATE DIRECTOR OF RESEARCH
Zonal Agriculture Research Station
IGATPURI-422 403.

A). Experimental Details :

a.) Crop : Paddy
Variety : Indrayani
Year : 2019-20
Season : Kharif 2019
Soil Type : Entisol
Plot size : Gross:- 4.80 m x 2.40 m
Net:- 4.40 m x 2.00 m
Design : RBD
No. of treatment : Six
No. of replication : Four
Spacing : 15 - 25 cm x 15 - 25 cm.

General Recommended dose of nutrients : Uniform dose of 56 kg N: 30 kg P₂O₅ through Urea- DAP briquettes (@ 170 kg ha⁻¹) + 10 t FYM ha⁻¹ and 50 kg K₂O through MOP per ha⁻¹ was given to all the treatments after transplanting.

Date of transplanting : 15/07/2019

- Observations recorded :**
1. Yield
 2. Total Chlorophyll content
 3. Vegetative and growth of the plant
 4. Soil Chemical properties (Initial & at harvest)
 5. Uptake of nutrients.

B.) Treatment details:

Application of RCM-Harit-Sanjivani (grams per acre)

Treatments	Stage (I) (soil applicati on after transpla nting)	Stage (II) (foliar spray at 30 DAT)	Stage (II) (foliar spray at 45 DAT)	Stage (II) (foliar spray at 60 DAT)
T1 (No application)	0	0	0	0
T2 Soil and foliar application of RCM-Harit-Sanjivani (grams per acre)	150	75	125	150
T3 Soil and foliar application of RCM-Harit-Sanjivani (grams per acre)	200	100	150	200
T4 Soil and foliar application of RCM-Harit-Sanjivani (grams per acre)	250	125	175	250
T5 Soil and foliar application of RCM-Harit-Sanjivani (grams per acre)	300	150	200	300
T6 Soil and foliar application of RCM-Harit-Sanjivani (grams per acre)	350	200	250	350

Note:-

Uniform dose of 56 kg N:30 kg P₂O₅ through Urea- DAP briquettes(@ 170 kg ha⁻¹) and 50 kg K₂O through MOP per ha⁻¹ + 10 t FYM ha⁻¹ was given to all the treatments


Assistant Professor
Soil Science & Agril. Chemistry
ZARS, Igatouri-422 403 (Nashik)



ASSOCIATE DIRECTOR OF RESEARCH
Zonal Agriculture Research Station
IGATPURI-422 403

Table1. Initial Soil Analysis

Sr. No.	Parameters	Value
1	pH (1:2.5)	6.81
2	EC (dSm ⁻¹)	0.11
3	Organic carbon (%)	0.39
4	Available Nitrogen (kg ha ⁻¹)	164.0
5	Available P (kg ha ⁻¹)	18.4
6	Available K (kg ha ⁻¹)	144.0
8	DTPA extractable micronutrients	
	i.) Fe (ppm)	22.12
	ii.) Mn (ppm)	17.19
	iii.) Zn (ppm)	0.62
	iv.) Cu (ppm)	2.10
9	Soil Texture (%)	
	i.) Sand	22
	ii.) Silt	52
	iii.) Clay	26
	iv.) Textural class	Silty loam

The initial soil status presented in Table 1. The soil belongs to Entisol, which is neutral in reaction with low in available nitrogen, potassium and moderate in available phosphorus content. The DTPA extractable micronutrients were sufficient.

Methodology:**Application of RCM-Harit-Sanjivani to paddy crop**

RCM-Harit -Sanjivani is in a powder form and its application is given below

Stage I :- Soil application immediate after transplanting

Stage II :- Three Foliar spray at 30, 45 and 60 days after transplanting


Assistant Professor
Soil Science & Agril. Chemistry
Z.A.R.S., Igatpuri-422 403 (Nashik)


ASSOCIATE DIRECTOR OF RESEARCH
Zonal Agriculture Research Station
IGATPURI-422 403.

