



संशोधन संचालनालय

DIRECTORATE OF RESEARCH

डॉ. बाळासाहेब सावंत कोकण कृषि विद्यापीठ दापोली ४१५ ७१२, जि. रत्नागिरी (महाराष्ट्र)  
Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth Dapoli 415 712, Dist. Ratnagiri (M.S.)

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दूरध्वनी ०२३५८-२८२४१७, फॅक्स २८२४१७



Dr. P. U. Shahare  
Director of Research

डॉ. पी. यु. शहारे  
संशोधन संचालक

No.DBSKKV/RES-II/2057/2469/2025

Date

06 OCT 2025  
7 OCT 2025

**RPAD**

To,

M/s. Y. K. Laboratories,  
Herbal House, Plot No. 3, East Part,  
Kntloor (V), Abdullapurmetn (M),  
R. R. Dist. Hyderabad- 501505

**Sub : Regarding Agency Trial Report...**

**Ref :-** Letter NO. ARS/PND/Agency Trial/471/2025 dated 14.07.2025

Please find enclosed herewith the final test report of testing **Evaluation of bioefficacy of VAAYUU YANTRA GRANNULES product on paddy crop**. The testing was conducted at Agricultural Research Station, Phondaghat Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli.

This is for your information.

  
DIRECTOR OF RESEARCH

Copy for information to the Officer Incharge, Agril. Research Station, Phondaghat, Tal. Kankavali, Dist. Sindhudurg.

  
**ISSUED**

*(For Official Use Only)*

**Product Testing Report on**

**Evaluation of bioefficacy of YAAYUU YANTRA GRANULES product  
on paddy crop**

**Tested product : VAAYUU YANTRA GRANULES**

**Manufactured by : YK Laboratories, Hyderabad**



**DBSKKV, DAPOLI**



**SUBMITTED BY**

**Agricultural Research Station, Phondaghat  
Dr. B. S. Konkan Krishi Vidyapeeth, Dapoli,  
Dist. Ratnagiri (M.S.)**

|                                                                       |   |                                                                                                                                                                                             |
|-----------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Title</b>                                                          | : | <b>Evaluation of bioefficacy of YAAYUU YANTRA GRANULES product on paddy crop</b>                                                                                                            |
| <b>Name and address of firm</b>                                       | : | M/s. Y. K. Laboratories, Herbal House, Plot No. 3, East Part, Kuntloor (V), Abdullapurmet (M), R. R. Dist. Hyderabad-501505                                                                 |
| <b>Project Objects</b>                                                | : | To study the bioefficacy of YAAYUU YANTRA GRANULES on paddy                                                                                                                                 |
| <b>Name of the scientist and Associate scientists</b>                 | : | Dr. V. N. Shetye, Agronomist, Agricultural Research Station. Phondaghat, Tal. Kankavli, Dist. Sindhudurg and<br>Dr. A. P. Chavan, Head, Department of Agronomy, Dr. B. S. K. K. V., Dapoli. |
| <b>Name and address of research Institute</b>                         | : | Agricultural Research Station, Phondaghat, Tal. Kankavli, Dist. Sindhudurg.                                                                                                                 |
| <b>Letter no or Date on which DoR accepted the candidate product.</b> | : | No.BSKKV/RES-II/1487/4028/2024,<br>Dated 20.08.2024                                                                                                                                         |
| <b>Details of the Experiment :</b>                                    |   |                                                                                                                                                                                             |
| <b>Crop and Season and year of commencement</b>                       | : | Rice – <i>Kharif</i> 2024                                                                                                                                                                   |
| <b>Season and year of report</b>                                      | : | <i>Kharif</i> 2024                                                                                                                                                                          |
| <b>Design</b>                                                         | : | Randomized Block Design                                                                                                                                                                     |
| <b>Replications</b>                                                   | : | Four                                                                                                                                                                                        |
| <b>Treatments</b>                                                     | : | Five                                                                                                                                                                                        |
| <b>Plot size</b>                                                      | : | Gross: 9.90 m. x 2.00 m.<br>Net: 9.30 m. x 1.60 m.                                                                                                                                          |
| <b>Date of sowing</b>                                                 | : | 13/06/2024                                                                                                                                                                                  |
| <b>Date of transplanting</b>                                          | : | 07/07/2024                                                                                                                                                                                  |
| <b>Date of Harvest</b>                                                | : | 28/10/2024                                                                                                                                                                                  |
| <b>Crop &amp; variety</b>                                             | : | Crop-Rice. Variety – Ratnagiri-8                                                                                                                                                            |
| <b>Spacing</b>                                                        | : | 20 cm x 15 cm                                                                                                                                                                               |


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**Treatment details:**

| Treatment No.  | Treatment doses                   |
|----------------|-----------------------------------|
| T <sub>1</sub> | YAAYUU YANTRA GR – No application |
| T <sub>2</sub> | YAAYUU YANTRA GR 2 Kgs/acre       |
| T <sub>3</sub> | YAAYUU YANTRA GR 3 Kgs/acre       |
| T <sub>4</sub> | YAAYUU YANTRA GR 4 Kgs/acre       |
| T <sub>5</sub> | Relevant University Practice      |

RDF : 100:50:50 kg/ha

**Agronomic practices :** All agronomic practices like ploughing, puddling and fertilizer application were carried out as per the recommendations given for the Konkan region of Maharashtra.

**Methodology :**

**Application method :** Basal/Soil application

**Time of application :** At the time of transplanting

**Methodology of recording observations:**

For recording observations, five hills were randomly selected and tagged from each net plot. The observations were recorded at harvest as post-application observations.

**1. Plant height (cm) :**

Height of plant was measured from ground level up to the tip of the panicle at harvest. Then average of five plants was worked out.

**2. Total number of tillers hill<sup>-1</sup>**

The total number of tillers hill<sup>-1</sup> was recorded from five randomly selected hills and average of five hills was worked out.

**3. Number of effective tillers hill<sup>-1</sup>**

The total number of effective tillers hill<sup>-1</sup> was recorded from five randomly selected hills and average of five hills was worked out.

**4. Panicle Length (cm)**

Length of five panicles from five randomly selected hills was measured from the base of whorl *i.e.* peduncles upto the tip of the panicle and average length of panicle was worked out.

  
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### 5. Grain Yield :

Grain yield obtained after threshing the produce from each net plot was sun-dried for about 4-5 days and weight was recorded and then converted in quintal per hectare.

### 6. Straw yield :

Straw yield obtained after threshing the produce from each net plot was sun-dried for about 4-5 days and weight was recorded and then converted in quintal per hectare.

### Result

**Table 1. Effect of YAAYUU YANTRA GRANULE on plant height and panicle length at harvest.**

| Treatments     |                                   | Plant height (cm) | Panicle length (cm) |
|----------------|-----------------------------------|-------------------|---------------------|
| T <sub>1</sub> | YAAYUU YANTRA GR – No application | 96.23             | 22.77               |
| T <sub>2</sub> | YAAYUU YANTRA GR 2 Kgs/acre       | 98.12             | 23.23               |
| T <sub>3</sub> | YAAYUU YANTRA GR 3 Kgs/acre       | 100.98            | 23.86               |
| T <sub>4</sub> | YAAYUU YANTRA GR 4 Kgs/acre       | 102.92            | 24.29               |
| T <sub>5</sub> | Relevant University Practice      | 97.23             | 23.20               |
| S.Em.±         |                                   | 0.70              | 0.17                |
| C.D. at 5 %    |                                   | 2.16              | 0.53                |

Data presented in table 1 indicates that plant height and panicle length at harvest were influenced significantly due to different levels of YAAYUU YANTRA GRANULE. Soil application of YAAYUU YANTRA GRANULE @ 4 Kg/acre (T<sub>4</sub>) and soil application of YAAYUU YANTRA GRANULE @ 3 Kg/acre (T<sub>3</sub>) were found to be the best treatments and remained significantly superior over rest of the treatments. However both these treatments remained statistically at par with each other.

**Table 2. Effect of YAAYUU YANTRA GRANULE on total number of tillers hill<sup>1</sup> and number of effective tillers hill<sup>1</sup> at harvest.**

| Treatments     |                                   | Total no. of tillers hill <sup>1</sup> | No. of effective tillers hill <sup>1</sup> |
|----------------|-----------------------------------|----------------------------------------|--------------------------------------------|
| T <sub>1</sub> | YAAYUU YANTRA GR – No application | 8.40                                   | 7.35                                       |
| T <sub>2</sub> | YAAYUU YANTRA GR 2 Kgs/acre       | 10.00                                  | 8.40                                       |
| T <sub>3</sub> | YAAYUU YANTRA GR 3 Kgs/acre       | 10.60                                  | 9.30                                       |
| T <sub>4</sub> | YAAYUU YANTRA GR 4 Kgs/acre       | 10.85                                  | 9.60                                       |
| T <sub>5</sub> | Relevant University Practice      | 9.75                                   | 8.05                                       |
| S.Em.±         |                                   | 0.15                                   | 0.28                                       |
| C.D. at 5 %    |                                   | 0.48                                   | 0.87                                       |

Data presented in table 2 showed that total number of tillers hill<sup>-1</sup> and number of effective tillers hill<sup>-1</sup> at harvest were influenced significantly due to different levels of YAAYUU YANTRA GRANULE. An analysis of data indicated that soil application of YAAYUU YANTRA GRANULE @ 4 Kg/acre (T<sub>4</sub>) and soil application of YAAYUU YANTRA GRANULE @ 3 Kg/acre (T<sub>3</sub>) recorded significantly maximum total number of tillers hill<sup>-1</sup> and number of effective tillers hill<sup>-1</sup> over rest of the treatments under study and both these treatments remained statistically similar with each other.

**Table 3. Effect of YAAYUU YANTRA GRANULE on grain and straw yield q/ha.**

| Treatments     |                                   | Grain yield t/ha | % increase in grain yield over control | Straw yield q/ha | % increase in Straw yield over control |
|----------------|-----------------------------------|------------------|----------------------------------------|------------------|----------------------------------------|
| T <sub>1</sub> | YAAYUU YANTRA GR – No application | 54.27            | -                                      | 56.28            | -                                      |
| T <sub>2</sub> | YAAYUU YANTRA GR 2 Kgs/Per acre   | 56.40            | 3.93                                   | 58.95            | 4.75                                   |
| T <sub>3</sub> | YAAYUU YANTRA GR 3 Kgs/Per acre   | 58.01            | 6.90                                   | 60.13            | 6.84                                   |
| T <sub>4</sub> | YAAYUU YANTRA GR 4 Kgs/Per acre   | 59.16            | 9.01                                   | 61.17            | 8.69                                   |
| T <sub>5</sub> | Relevant University Practice      | 55.51            | 2.29                                   | 57.91            | 2.90                                   |
| S.Em.±         |                                   | <b>0.46</b>      | -                                      | <b>0.36</b>      | -                                      |
| C.D. at 5 %    |                                   | <b>1.13</b>      | -                                      | <b>1.10</b>      | -                                      |

A close examination of data presented in table 3 showed that the treatments T<sub>4</sub> i.e. soil application of YAAYUU YANTRA GR @ 4 Kg/acre and T<sub>3</sub> i.e. soil application of YAAYUU YANTRA GR @ 3 Kg/acre were found to be the best treatments for producing significantly maximum grain yield and straw yield over rest of the treatments under study and both the treatments remained statistically identical with each other.

The treatment T<sub>4</sub> i.e. soil application of YAAYUU YANTRA GR @ 4 Kg/acre and treatment T<sub>3</sub> i.e. soil application of YAAYUU YANTRA GR @ 3 Kg/acre registered 9.01 per cent and 6.90 per cent increase in grain yield and 8.69 per cent and 6.84 per cent increase in straw yield over control treatment respectively.

## Conclusion

On the basis of field experiment conducted for evaluation of YAAYUU YANTRA GR for growth, yield attributes and yield in Paddy during *kharif* season 2024, it was concluded that both the treatments T<sub>4</sub> *i.e.* soil application of YAAYUU YANTRA GR @ 4 Kg/acre and treatment T<sub>3</sub> *i.e.* soil application of YAAYUU YANTRA GR @ 3 Kg/acre were found to be the best treatments for improving plant growth, yield attributes and yield of paddy.

## Declaration

*“These are the results of field trials conducted for one season and not to be treated as University recommendation”*

 (Dr. V. N. Shetye)

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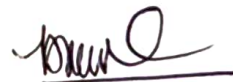
Signature of the implementing scientist



(Dr. A. P. Chauhan)

Head, Dept. of Agronomy

Department of Agronomy  
Dr. B.S. Konkan Krishi Vidyapeeth, Dapoli  
Tal. Dapoli, Dist. Ratnagiri



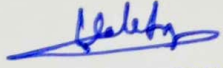
(Dr. P. U. Shahare)

Director of Research

Dr. B.S. Konkan Krishi Vidyapeeth, Dapoli

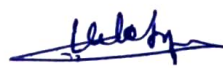
## View of the experimental plot



  
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**WEATHER DATA DURING GROWTH PERIOD *Kharif* 2024**

| Met<br>wk. | Metrological Period  | Rainfall<br>(mm) | Rainy<br>days | Max.<br>Temp.<br>(°C) | Mini.<br>Temp.<br>(°C) | RH<br>(%)<br>I | RH<br>(%)<br>II | Wind<br>velocity |
|------------|----------------------|------------------|---------------|-----------------------|------------------------|----------------|-----------------|------------------|
| 24         | 11-06-24 to 17-06-24 | 105.0            | 6             | 30.91                 | 22.96                  | 95.43          | 93.43           | 1.99             |
| 25         | 18-06-24 to 24-06-24 | 333.8            | 6             | 31.63                 | 22.60                  | 96.57          | 89.71           | 2.49             |
| 26         | 25-06-24 to 01-07-24 | 272.9            | 7             | 29.84                 | 23.31                  | 97.14          | 92.43           | 3.59             |
| 27         | 02-07-24 to 08-07-24 | 501.0            | 7             | 30.34                 | 23.03                  | 97.14          | 92.86           | 3.20             |
| 28         | 09-07-24 to 15-07-24 | 298.4            | 7             | 29.34                 | 21.67                  | 97.14          | 87.43           | 1.90             |
| 29         | 16-07-24 to 22-07-24 | 691.8            | 7             | 28.06                 | 22.31                  | 97.71          | 96.57           | 2.00             |
| 30         | 23-07-24 to 29-07-24 | 495.4            | 7             | 28.99                 | 22.24                  | 97.14          | 90.43           | 3.27             |
| 31         | 30-07-24 to 05-08-24 | 436.2            | 7             | 29.13                 | 23.46                  | 94.29          | 93.14           | 1.93             |
| 32         | 06-08-24 to 12-08-24 | 306.8            | 7             | 29.70                 | 21.60                  | 90.29          | 91.86           | 0.79             |
| 33         | 13-08-24 to 19-08-24 | 26.6             | 3             | 32.77                 | 18.03                  | 95.43          | 92.57           | 0.79             |
| 34         | 20-08-24 to 26-08-24 | 395.9            | 7             | 31.20                 | 18.31                  | 97.14          | 93.14           | 1.69             |
| 35         | 27-08-24 to 02-09-24 | 201.5            | 6             | 29.84                 | 18.39                  | 98.86          | 90.71           | 1.71             |
| 36         | 03-09-24 to 09-09-24 | 201.9            | 6             | 29.63                 | 23.60                  | 98.29          | 93.14           | 0.93             |
| 37         | 10-09-24 to 16-09-24 | 61.4             | 5             | 31.27                 | 23.39                  | 96.86          | 84.14           | 1.71             |
| 38         | 17-09-24 to 23-09-24 | 79.3             | 6             | 31.70                 | 22.96                  | 96.14          | 91.00           | 0.87             |
| 39         | 24-09-24 to 30-09-24 | 238.8            | 5             | 30.06                 | 23.17                  | 99.43          | 95.71           | 0.67             |
| 40         | 01-10-24 to 07-10-24 | 17.8             | 3             | 34.13                 | 23.67                  | 95.43          | 91.86           | 0.81             |
| 41         | 08-10-24 to 14-10-24 | 97.7             | 6             | 32.56                 | 23.46                  | 96.57          | 92.14           | 0.36             |
| 42         | 15-10-24 to 21-10-24 | 100.0            | 4             | 31.77                 | 23.39                  | 97.14          | 92.00           | 0.67             |
| 43         | 22-10-24 to 28-10-24 | 94.4             | 3             | 34.41                 | 23.39                  | 97.71          | 84.00           | 0.70             |

  
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