



Seed Production of CRRI High Yielding Rice Varieties for Lowland Ecosystems



O.N. Singh, S.S.C. Pattnaik, R.K. Sahu and P. Samal

Central Rice Research Institute, Cuttack has released many varieties suitable for lowland ecosystems. The most popular varieties are Pooja, Swarna Sub1, Reeta, Sarala, CR 1014 and Varshadhan. These varieties are suitable for cultivation during the wet season (Kharif). Pooja is also suitable for Madhya Pradesh and West Bengal. Reeta is suitable for West Bengal, Tamil Nadu and Andhra Pradesh. The yield of Pooja, Swarna Sub1 and Reeta is around 5 t/ha while that of Varshadhan, Sarala and CR 1014 is about 4 t/ha.

Entrepreneurial Opportunity

- The demand for seed of these rice varieties is very high.
- The total production cost is estimated to be about Rs.15,940 per acre, which includes seed cost, fertilizer cost, cost of farm implements, labour, pesticides and other miscellaneous costs.
- The certified seed of Sarala and CR 1014 can be sold at Rs.18.50/kg, which gives a total sales realisation of about Rs.29,600. The net profit is about Rs.13,660.
- The Certified seed of Varshadhan, Pooja, Swarna Sub1 and Reeta can be sold at Rs.17.50/kg which gives a total sales realisation of about Rs.35,000 per acre. The net profit is about Rs.19,060 per acre.
- A 100 hectare commercial seed production venture yields, a net profit of about Rs.34,15,000 by Sarala and CR 1014 and Rs.47,65,000 by Pooja, Swarna Sub1, Reeta and Varshadhan.

Salient Features

- The duration of the above varieties is about 145 to 150 days except CR 1014 and Varshadhan, which are of 160 days duration.
- The grain of Pooja, Swarna Sub1, Reeta, CR 1014 and Sarala is of medium slender type where as Varshadhan is of long bold type.
- Swarna Sub1 is tolerant to complete submergence for 15 to 17 days.
- Reeta is resistant to leaf blast, stem borer and leaf folder moderately resistant to neck blast, brown spot, sheath blight and sheath rot.
- CR 1014 is moderately Resistant to Sheath Blight. Pooja and CR 1014 are tolerant to major pests and diseases.



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Contact

Dr .T. Mohapatra

Director, Central Rice Research Institute, Cuttack-753006
Phone-0671-2367757, email- directorcrrri@sify.com

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Institute Technology Management and Business Planning Development (ITM&BPD) Unit
Central Rice Research Institute, Cuttack (Odisha) 753006.

Project Leader : Dr. T. Mohapatra

Principal Investigator : Dr. G. A. K. Kumar

CoPIs : Dr. B. C. Patra, Dr. B. N. Sadangi, Dr. M. Din, Mr. S. S. C. Pattnaik,
Mr. R. K. Sahu, Dr. B. B. Panda and Dr. N. C. Rath

Business Manager : Dr. Aloka Agnibesh

ITM & BPD Unit Team : Dr. Shubhransu Nayak and Mr. Bibhu Mishra

E-mail: crri.itm.bpdu@gmail.com