System of Rice Intensification

SRI Promotion in India & Orissa State





Food Problem in India

Demand of rice will increase due to population increase, but rice production is stagnated, and fresh water resources for rice production are limited. There is a possibility of food crisis in the future.

- ✓ Rice cultivation in India is No.1 in area, and No.2 in production.
- ✓ Over 50% of rice area is irrigated, contributing 75% of the total production, but also consuming 50-60% of the water resources.
- ✓ India's 1.15 billion people, 70% rely on rice, 1/3 energy requirements.
- ✓ India's population is projected to grow to 1.6 billion in 2050.
- ✓ In 2008-09 (=best in recent years), rice area is 45.5 million ha, production is 99.2 million tons, and productivity is 2.2 t/ha.
- ✓ Growth rates of rice area, production, and productivity during 1994-95 to 2009-10 were (-) 0.04%, 1.15% and 1.04% respectively.
- ✓ The estimate for 2009-10 and 2010-11 shows the alarming downward trend in rice area and production.

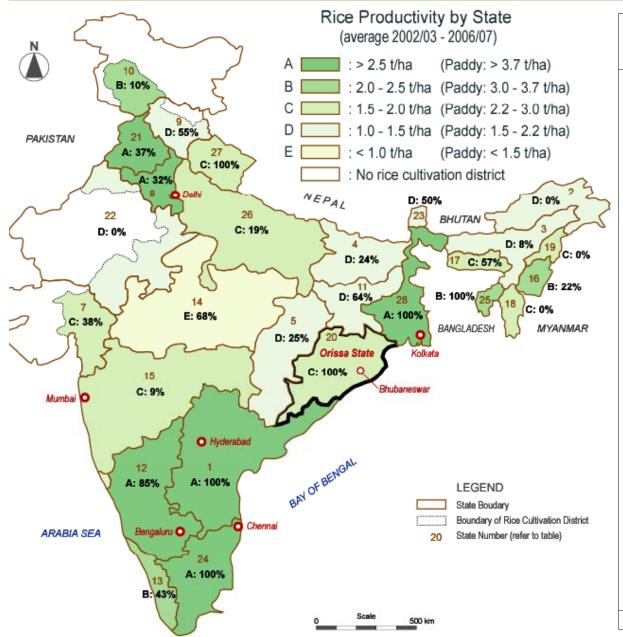
National Food Security Mission

- Scheme: Centrally sponsored scheme launched in August 2007. Budget Rs.48,825 million in XI Plan (2007-08 to 2011-12)
- Objective: To increase production and productivity of food crops on a sustainable basis so as to ensure food security.
- Target:To increase production of rice, wheat and pulsesby 10, 8, 2 million tons, respectively
- Location: 136 districts in 14 states (in Orissa, 15 districts)
- Method: 50% subsidy to farming activities (government list) on farmer's request (= loan from the bank).
- Component: Comprehensive support inludes technical assistance (free), procurement of seeds, equipment, fertilizer and pesticide, implementation of Farmers Field School, field demonstration, etc.

Support programs for SRI inlude: (1) Field demonstration of SRI, (2) Certified seeds of HYV, (3) Nursery bed preparation, (4) Conoweeder, (5) Soil test for nutrient status (free), etc.

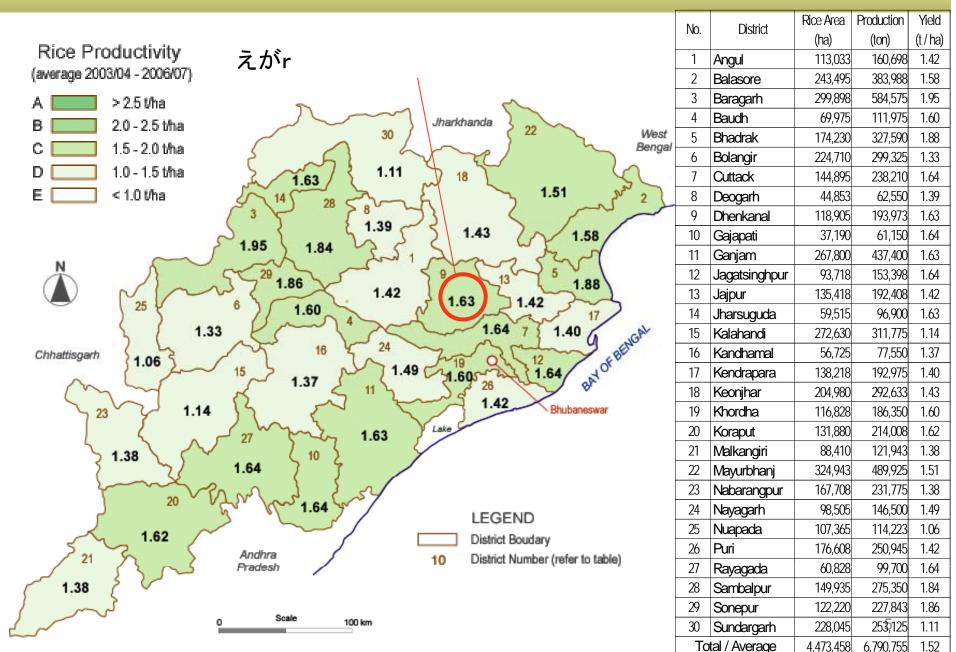
Using this scheme, a lot of field SRI demonstrations are under way.

Rice Productivity and SRI in India



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27. Uttarakhand1313130.2931.8928. West Bengal1918185.7902.53	25.	Tripura	4	4	4	0.246	2.30
28. West Bengal 19 18 18 5.790 2.53	26.	Uttar Pradesh	70	70	13	5.601	1.94
	27.	Uttarakhand	13	13	13	0.293	1.89
20 Union Territorian 20 0 0 0.074	28.	West Bengal	19	18	18	5.790	2.53
	29.	Union Territories	20	8	0	0.074	-
Total / Average 622 565 256 42.646 2.01		Total / Average	622	565	256	42.646	2.01

Rice Productivity in Orissa



Rengali Irrigation Project



Features of the Project

Rengali dam (comp. 1985)

- 70.5 m high, 1,050 m wide
- 3,414 MCM net storage
- 250 MW hydropower

Samal barrage (comp. 1994)

- 660 m wide, 17 bay Irrigation area
- Command area: 235,500 ha
- Right Bank Cana: 121,200 ha
- Left Bank Canal: 114,300 ha
- JICA Sub-project: 29,000 ha



Spread of SRI in the World

In 2010 SRI benefits have been validated in 41 countries



Before 1999: Madagascar 1999/2000: China, Indonesia 2000/01: India, Bangladesh, Cambodia, Laos, Thailand, Philippines, Sri Lanka, Nepal, Gambia, Nepal, Myanmar, Sierra Leone, Cuba

2002/03: Benin, Guinea, Mozambique, Peru 2004/05: Senegal, Mali, Pakistan, Vietnam

- 2006: Burkina Faso, Bhutan, Iran, Iraq, Zambia
- 2007: Afghanistan, Brazil
- 2008: Rwanda, Costa Rica, Ecuador, Egypt, Ghana, Japan
- 2009: Malaysia, Timor Leste
- 2010: Kenya, DPRK, Panama

SRI Timeline in India

Year	State	Introduced by
2000	Tamil Nadu	Tamil Nadu Agricultural University, ————————————————————————————————————
	Tripura	Ramasamy Selvam (Organic farmer),
	Puduchery	Dept.of Agriculture, Auroville Farm
2001	Karnataka	Narayana Reddy, Organic farmer
2002	Bihar	Rajendra Agricultural University Dr. Thiyagarajan
2003	Andhra Pradesh	Acharya NG Ranga Agricultural. University,
	West Bengal	Timbaktu Collective PRADAN
2004	Kerala	Mitraniketan KVK
	Andaman	Central Agricultural Research Institute
	Orissa	Central Rice Research Institute
	Punjab	Dept. of Agriculture
	Assam	Assam Agricultural University
	Gujarat	Anand Agricultural University
2005	Chattisgarh	Indira Gandhi Krishi Vishwavidyalaya
	Maharashtra	Dr Balasaheb Sawant Konkan Krishi Vidyapeeth
	Uttrakhand	Govind Ballabh Pant University of Agriculture & Technology
	Meghalaya	ICAR Research Complex for NE region
	Jharkhand	Birsa Agricultural University
2006	Himachal Pradesh	Peoples' Science Institute
	Jammu & Kashmir	Sher-E-Kashmir University of Agricultural Sciences &
	Nagaland	Technology 'Prodigals Home'
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After2006 SRI has spread to almost all rice growing states

Station of the

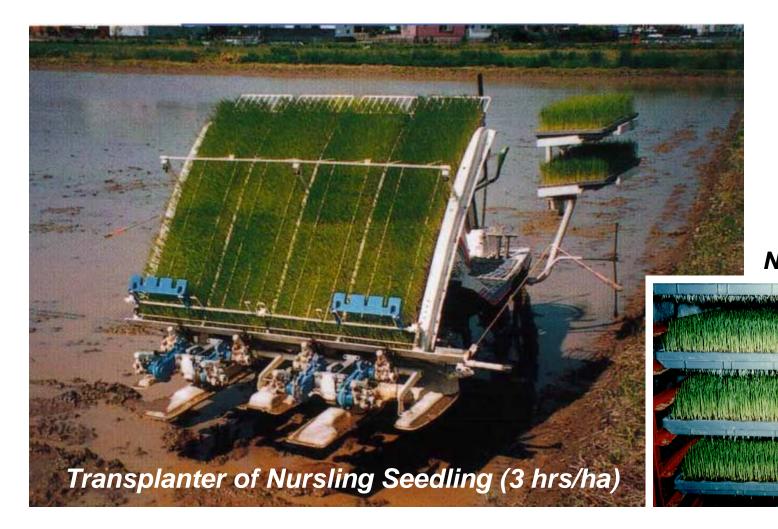
Process of SRI Dissemination

<u>Stage-1</u> : Promotion	 Policy to Promote SRI by the Government Workshop on SRI to present advantage Meeting at site to confirm action needed Demonstration farm operation 			
Stage-2: Field trial & evaluation	 Government's research station involve. Field trials to confirm key factors on SRI Yield survey & analysis Labor & financial analysis 			
<u>Stage-3</u> : Dissemi- nation	 Campaign by the government & media Make SRI manual, and training materials Budget to disseminate SRI & to use NGOs 			

•Farmer training at Demo-plot and on-site

Mechanized Transplanting System

In 1990, Mechanized Transplanting System for Nursling Seedlings (SRI) was established and equipment became available in the market in Japan.



Controlled preparation system of Nursling Seedlings

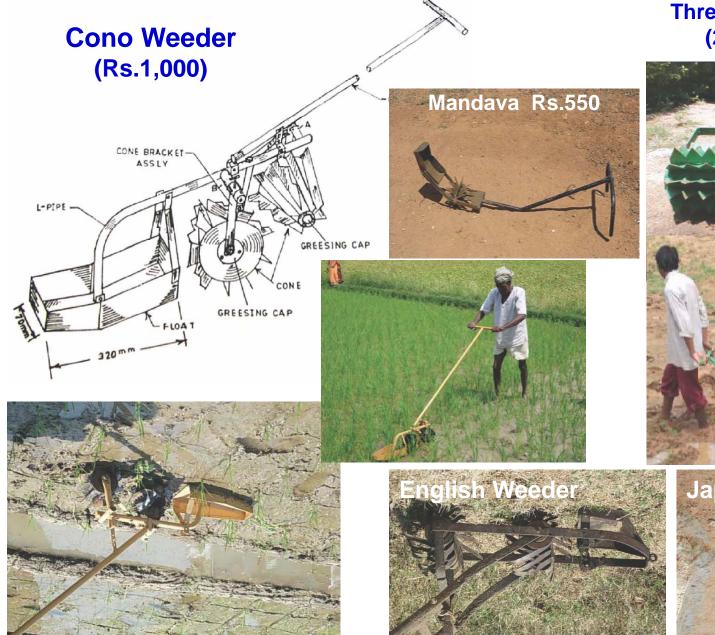
Grid Making for Transplanting

Grid Marking for SRI Transplanting 25 cm x 25 cm or 30 cm x 30 cm





Rotarry Weeder in India



Three Row Raichur Weeder (2 persons) Rs.1,000



Japan Weeder-



SRI Yield Survey in Orissa (DOA)

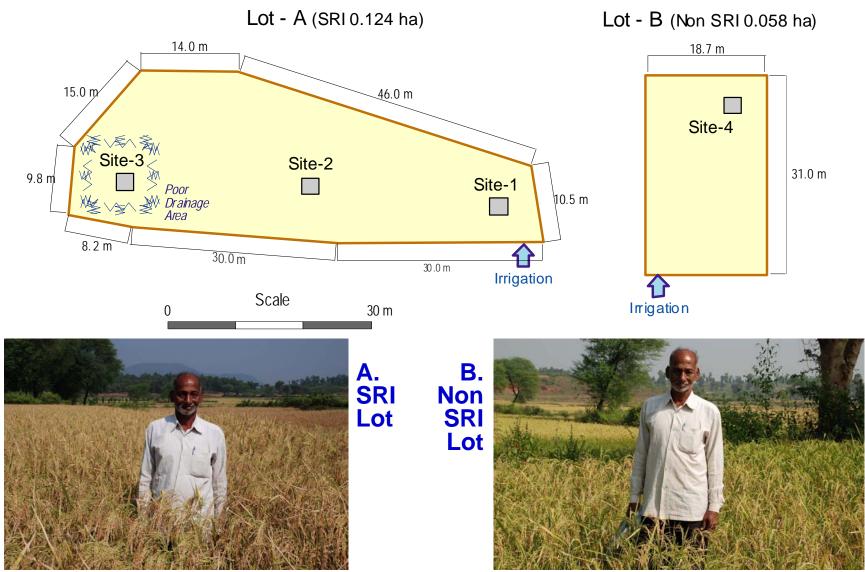
Demonstration Results of SRI Conducted in Farmer's Field by the State **Agriculture** Department (Dry Season 2007-08)

District	Nos.	Variety	SRI Yield	Control Yield	Increase
		-	t/ha	t/ha	%
Kalahandi	132	Lalat	5.98	4.31	38.6
Jajpur	2	Lalat	5.92	4.85	22.0
Bolangir	3	Lalat	5.43	2.87	89.1
Deogarh	7	Lalat	4.85	3.29	47.5
Sundargarh	1	Lalat	4.12	2.31	78.4
Dhenkanal	3	Lalat	7.32	8.30	-11.8
		Pratikhya	6.20	4.77	29.9
		Naveen	6.04	4.84	24.8
Khordha	50	Lalat	5.02	3.57	40.8
Koraput	50	Khandagiri	6.53	3.30	97.9
Kalahandi		KRH-2	8.75	6.67	31.2
		Naveen	6.50	4.50	44.4
Ganjam	NA	JKHY 401	7.45	4.84	53.9
		MTU-1001	6.56	3.34	96.8
		Pooja	6.02	3.46	73.8
		Pratikhya	7.39	4.27	72.9
Average			6.26	4.34	44.2

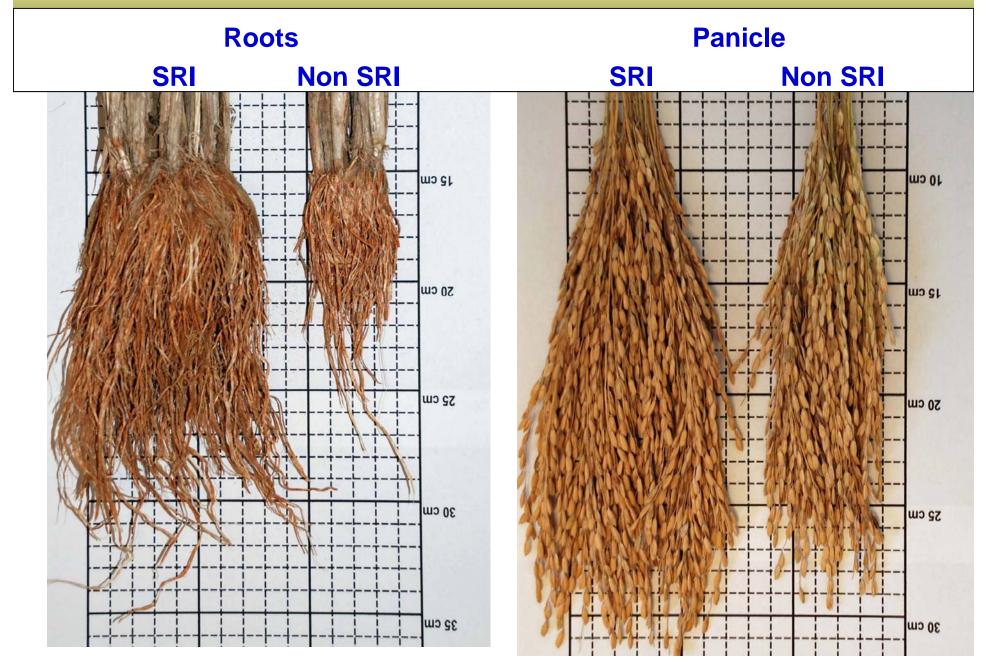
Source: Strengthening the Learning Alliance-Scaling up options for SRI in Orissa, 2008

SRI Yield Survey in Rengali (1)

SRI and Non SRI Paddy Yield Survey (Nov-Dec 2010) in Rengari Irrigation Sub-project Command Area



SRI Yield Survey in Rengali (2)



SRI Yield Survey in Rengali (3)

SRI and Non SRI Paddy Yield Survey in Rengari Irrigation Sub-project Command Area

			Lot B		
Item	unit		Non SRI		
		Site-1	Site-2	Site-3	Site-4
Measuring site condition		Near water inlet	Manure apply before	Water logging site	Low lying site
Soil texture		Clay	Clay	Clay	Clay
Rice variety		Naveen	Naveen	Naveen	Naveen
Date of activity					
- Seeding		2-Aug-10	2-Aug-10	2-Aug-10	10-Aug-10
- Transplanting		12-Aug-10	12-Aug-10	12-Aug-10	26-Aug-10
- Harvest		27-Nov-10	27-Nov-10	27-Nov-10	14-Dec-10
Transplanting					
- Are of seedling	days	10	10	19	16
- Nos of seedling per hill	nos	1	1	1	2 - 3
- Spacing (hill distance)	cm	25 x 25	25 x 25	25 x 25	random
Weeding	nos	3	3	3	1
Irrigation		Intermittent	continuous		
Unit Yield of paddy	t/ha	5.61	6.01	3.52	2.91

Action to Promote SRI

To shift SRI status to Stage-2 (Field trial & Evaluation), the following activities for 2 years are recommended to implement under the initiative of state DOA.

- (1) Systematic SRI field tests and evaluation together with CRRI and universities.
- (2) Evaluation of intermittent irrigation cycle at each agro-climatic zone in Orissa.
- (3) Preparation of SRI guideline/manual for Orissa.
- (4) Staff training on SRI dissemination by learning from advanced experience in IAMWARM-Tamil Nadu.
- (5) Support good NGOs to join with SRI filed trial as TOT.

It is preferable to give priority on SRI promotion by DOA to new irrigation areas for successful development, and thus to raise investment efficiency for the country.

Required Conditions for Success of SRI

SRI can be effective by integration of Agronomy - Water Management - Farmers

- Good irrigation infrastructure is essential to meet farmers' need to receive reliable amounts of water.
- Good management and O&M of irrigation schemes by administrative staff are essential.
- Strong and active farmer groups, dynamically interacting and participating in O&M of facilities, are essential.
- Motivated farmers are important, with high levels of agricultural skill and an acute awareness of possibilities for innovation and increasing their yields and crop area.
- Local government's support for SRI dissemination is quite effective to encourage farmers to introduce SRI.

Further Information on SRI

SRI Homepage : Japan SRI Association HP: Shuichi SATO : http://ciifad.cornell.edu/sri/ http://www.iai.ga.a.u-tokyo.ac.jp/j-sri/index.html sato-sh@n-koei.jp



Dewi SRI (Goddess of Rice In Indonesia)

