

## System of Rice Intensification

**KVKs:** Balaghat, Dhamtari, Kawardha, Korba, Raipur, Rajnadgaon, Gariyaband, Shahdol, Mandla, Dindori, Umaria, Korea, Jashpur, Balrampur, Rewa, Panna, Jabalpur, Seoni, Katni, Kanker, Narayanpur, Dantead, Narsinghpur, Damoh, Chhatarpur, Datia, Betul, Gwalior.

### Description of technology adopted:

SRI is climate smart, resource conserving & yield increasing technology.

#### Based on four principles:-

- Early, quick & healthy plant establishment
- Reduce plant density
- Improved soil condition, enrich with organic matter
- Reduce and control water management.

#### Suitability of technology:

- Small and Marginal farmers
- Huge availability of family labourers
- Ensured irrigation



#### Details of technology :

For this technology, 14 days old seedlings are transplanted @ 25X25 cm, fertilizer at STV with FYM @ 5 ton/ha, weed management by conoweeder @ 10 & 30 DAT and IPM as need.

**Promising varieties :** MTU-1010, JRH-5, IR-64, JRH-9, PA-6444, IGKV R-1, IGKV R-2

#### Promising characteristics of technology :

S. No	Characteristics	Observation (Unit)
1	Seed rate (kg/ha)	5-6
2	Spacing (cm)	25 X 25, 20x20, 15x15
3	No of effective tillers/ hill	15-18
4	Yield (q/ha)	60-80

#### Horizontal spread of technology:

No. of KVK	No. of village covered	No. of farmers	Area in ha
29	8304	260042	260647

#### Name of schemes supported by Central/State Govt. in large scale dissemination under convergence

S. No.	Agency	Type of contributions
1	RKVY- Composite Nursery	Seed, Subsidy and Dissemination of Technology
2	NFSM Paddy	Seed, Fertilizers, Plant Protection Chemicals
3	ATMA	Training and Demonstration
4	Annapurna	Seeds

**Economics of SRI technology:**

Cost (Rs./ha)	Gross Return(Rs./ha)	Net Return(Rs./ha)	B:C Ratio
25000	97500.0	72500.0	3.9

**Impact of technology in economic terms**

S. No.	Particulars	% Saving of Inputs/ additional yield over conventional practise	Rs. of Cost of Total Inputs( Rs. in Cr./ year)
01	Saving of seed	90 .0	7.04
02	Additional yield	116.0	1760.5
03	Water saving	50.0	48.23

**Impact of adopted technology in social terms**

S.No.	Particulars	Before Adoption of SRI	After Adoption of SRI
1	Education	State Govt. Hindi medium School	Divert towards higher education
2	Employment Generation	-	15 man days/ Ha
3	Promotion of Mechanization	-	Cono weeder, Line marker, Paddy Thresher

**Economic Matrix of System of Rice Intensification**

S. No .	Name of Agro climatic Zone	Name of KVK	Variety	Yield (q./ ha)	Cost of Cultivation (Rs./ha)	Gross Return ( Rs./ha)	Net Return (Rs./ha)	B:C ratio
01	Chhattisgarh Plains	Dhamtari	MTU-1010, IGKV R-1	70.1	25000	108655	83655	4.35
		Raipur	MTU-1010, IGKV R-1	60.2	25000	93310	68310	3.73
		Rajnandgaon	IGKV R-1, IGKV R-2	58.70	25000	90985	65985	3.64
		Gariyaband	IGKV R-1, IGKV R-2	56.30	25000	87265	62265	3.49
		Kawardha	IGKV R-1, IGKV R-2	62.30	25000	96565	71565	3.86
		Korba	MTU-1010, IGKV R-1	53.80	25000	83390	58390	3.34
		Balaghat	PA6444	58.08	25000	81892.0	56892	3.28

2	Kymore Plateau & Satpura Hills	Seoni	PA-6444	87.0	25000	113100.0	88100	4.52
		Katni	IR-64		25000	68890.0	43890	2.76
		Sidhi	MTU-1010	80.0	25000	74400.0	49400	2.98
		Rewa	IR-64	55.0	25000	82500.0	57500	3.30
		Satna			25000			
		Panna	IR-64	52.0	25000	78000.0	53000	3.12
		Jabalpur	PS-4	58.4	25000	89060.0	64060	3.56
3	Central Narmada Valley	Narsinghpur	MTU-1010	48.5	25000	77600.0	52600	3.10
4	Vindhya Plateau	Damoh	MTU-1010		25000	102000.0	77000	4.08
5	Northern Hills Region of Chhattisgarh	Shahdol	MTU-1010	80.25	25000	112350.0	87350	4.49
		Mandla	MTU-1010	45.25	25000	67500.0	42500	2.70

#### Adoption Matrix of System of Rice Intensification

S.No.	Name of Agro climatic Zone	Name of KVK	Village Covered	Farmers adopted SRI ( No.)	Area under SRI( ha)
01	Chhattisgarh Plains	Balaghat	850	65000	80000
		Dhamtari	122	5500	6340
		Kawardha	25	140	200
		Korba	82	520	208
		Raipur	402	905	103
		Rajnadgaon	46	221	445
		Gariyaband	230	5250	4200
02	Northern Hills Region of Chhattisgarh	Shahdol	510	61085	41230
		Mandla	635	26365	18560
		Dindori	125	5200	13000
		Umaria	503	36000	18000
		Korea	56	2376	1465
		Jashpur	57	4875	2300
		Surajpur	187	980	1209
		Balrampur	103	2005	1604

03	Kymore Plateau & Satpura Hills	Rewa	742	16700	32000
		Satna			
		Panna	445	30000	18850
		Jabalpur	160	6240	8850
		Seoni	85	215	530
		Katni	368	2150	1500
04	Bastar Plateau	Kanker	26	440	200
		Narayanpur	55	450	550
		Dantewada	28	123	54
05	Central Narmada Valley	Narsinghpur	38	1210	4580
06	Vindhya Plateau	Damoh	115	575	3714
07	Bundelkhand Region	Chhattarpur	16	36	60
		Datia	58	370	625
08	Satpura plateau	Betul	352	2111	6850
09	Gird	Gwalior	62	3000	6500

#### Glimpses of activities



**Weed management  
by Power weeder**



**Field preparation by  
Jawahar Paddy Plant Marker**



**SRI Fields**



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