

REPORT OF THE **NATIONAL LEVEL MONITORING TEAM (NLMT)**

**GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE (DAC)
DIRECTORATE OF PULSES DEVELOPMENT
BHOPAL (M.P.)**

(KHARIF, 2014)

Contents

S. NO.	PARTICULARS	PAGE NO.
1.	BGREI: BACKGROUND	1
2.	Area of operation	2
3.	Monitoring Mechanism	2
4.	NLMT: Composition	2
5.	State Profile: CG	3
6.	6.1 Crop Scenario: 2013-14	3
	6.2 Coverage Kharif (2014-15)	3
7.	Financial Progress	
	7.1 Physical and financial progress during 2010-11 to 2012-13	3
	7.1 Allocation & Expenditure : (2013-14)	3
	7.2 Allocation & Expenditure Kharif: (2014)	3
8.	Details of field Visit/Activities	4
9.	Observations	5-6
10.	Recommendations/Suggestions	6-7
	Photos	9-13
	Annexure I	14
	Annexure II	15
	Annexure III	16
	Annexure IV	17-18
	Annexure V	19-22


PREFACE

The Department of Agriculture and Co-operation, Ministry of Agriculture, Government of India vide order No. CPS 6-1/2014-NFSM dated the 8th September, 2014, constituted a National Level Monitoring Team (NLMT) for monitoring the programme of Bringing Green Revolution to Eastern India (BGREI) activities in respect of the BGREI states, including Chhattisgarh. The Team is comprised of scientist from CRRI, Cuttack, Nodal officer/Nominated officer from State Department of Agriculture. The Terms of Reference (ToR) include: i) The Director, Crop Development Directorate (CDD), Govt. Of India to act as Convenor & Team Leader of the monitoring Team; ii) The NLMT to visit at least once in each Crop Season; iii) To conduct in-depth inspection of the developmental activities in accordance to Approved Action Plan; iv) The quantitative, qualitative and impact of the delivery mechanism would be studied, to be supplemented through visuals and video films; v) The analysed report will include concrete suggestions/recommendations for necessary corrections for better implementation of the Mission.

The other member from CRRI, Cuttack could not participate owing to his transfer, active involvement of the nodal officer of the CG state and district level functionaries was ensured so as to effectively monitor the implementation of BGREI.

I am thankful to Dr. P.R. Kridutt, Director (Agriculture), Govt. Of CG for having ensured requisite representation of officer from Government and logistic support for intensive field visit. I acknowledge the cooperation of S.R. Verma, Jt. Director and Nodal officer BGREI, CG throughout the field visit and put on record the efforts of Dr A.L. Waghmare, STA and the technical team, including the NFSM TAs of this Directorate, in bringing out the report.

Bhopal (M.P.)
15.12.2014



A.K. Tiwari
Convenor

ABBREVIATIONS

1. ATMA-Agriculture Technology Management Agency
2. BGREI - Bringing Green Revolution in Eastern India
3. BMPFAC - Block Multi Purpose Farmersø Advisory Centre
4. CCE- Crop Cutting Experiment
5. CHCs- Custom Hiring Centre
6. CRRI- Central Rice Research Institute
7. CTCRI- Central Tuber Crop Research Institute
8. DLMT- District Level Monitoring Team
9. DSR- Direct Seeded Rice
10. FIAC- Farmerø Information Advisory Centre
11. GSC- General Steering Committee
12. KVK- Krishi Vigyan Kendra
13. MITs- Minor Irrigation Tanks
14. NFSM- National Food Security Mission
15. NLMT- National Level Monitoring Team
16. RKVY - Rashtriya Krishi Vikas Yojana
17. SES- Socio Economic Status
18. SHG- Self Help Group
19. SLMT- State Level Monitoring Team
20. ToT- Transfer of Technology

REPORT OF NATIONAL LEVEL MONITORING TEAM TO REVIEW THE IMPLEMENTATION OF BRINGING GREEN REVOLUTION TO EASTERN INDIA (BGREI) IN THE STATE OF CHHATTISGARH DURING KHARIF 2014 .

1. Background

The program of Bringing Green Revolution to Eastern India (BGREI) – a lateral to Rashtriya Krishi Vikas Yojana (RKVY), intended to address the constraints limiting the productivity of rice based cropping systems – was initially launched in 2010-11 in eastern India comprising seven (7) States namely; Assam, Bihar, Chhattisgarh, Jharkhand, Odisha, Eastern Uttar Pradesh (Purvanchal) and West Bengal so that agriculture productivity is reasonably enhanced and stabilized in these areas.

Most of the activities taken up under the BGREI program during 2010-11 were short term strategies. Some of the States namely; Chhattisgarh; Jharkhand & West Bengal have added water & soil conservation related medium & long term strategies such as construction of check dams, minor irrigation tanks (MITs), lift irrigation points, re-excavation of old ponds and other water resources development works.

This program was conceptualized adopting focused approach on the medium & long term strategies for **asset building activities** relating to water conservation and utilization in combination with the short term activities pertaining to Transfer of Technology (ToT) of the major cereals preferably in **Non-NFSM** districts. The program consisted a bouquet of three broad categories of interventions, viz; (i) **Block demonstrations of rice and wheat - short term strategy**; (ii) **Asset building activities consisting water conservation & utilization - medium term strategies**; and (iii) **Site specific activities - both short term & medium term strategies** for facilitating the petty works such as construction/ renovation of irrigation channels/electric power supply for agriculture purposes. The allocation of funds among these three major interventions was nearly 63% of the total funds for block demonstrations, 17% of the funds for asset building activities and 19% of the funds for site specific activities and about 1% of the funds were earmarked for monitoring activities at national level.

2. BGREI: Area of operation

S. No.	Commodities	All India		Chhattisgarh (No. of districts)
		No. of State's	No. of District	
1.	Rice	Assam, Bihar, Chhattisgarh, Odisha, Eastern UP, West Bengal (07)	96	08
2.	Wheat	Bihar, Eastern UP and West Bengal (03)	29	-

3. Monitoring Mechanism

S.No.	Level	Formation	Mission structure/ (Composition)	Frequency of Meeting
i.	National	i) Central Steering Committee (CSC)	Secretary (A & C)- Chairman	Quarterly
		ii) National Level Monitoring Team (NLMT)	Director CDDs- Convenor Principle Scientist, Cuttack ó Member JDA, SDA ó Member	Once in a crop season
ii.	State	State Level Monitoring Team (SLMT)	Additional Secretary/Joint Secretary ó Chairman	Once in every month (3 rd week)
iii.	District	District Level Monitoring Team (DLMT)	DDA/DAO - Head	

4. NLMT : Composition

S.No.	Organization	Names and Designation
i.	Government of India (Deptt. of Agriculture & Cooperation) Ministry of Agriculture Directorate of Pulses Development Vindhyachal Bhavan, Bhopal, (M.P.).	Dr. A.K. Tiwari Director (I/c) - (Convenor/Team leader)
ii.	Division of Crop Production, CRRI, Cuttack (Odisha)	Dr. M. Din Principal Scientist (Agril. Engg.) - (Member)
iii.	Directorate of Agriculture, Govt. of Chhattisgarh Labhandi, Raipur (CG)	Shri S.R.Verma, Joint Director - (Member)

5. State Profile: CG

Agro-climatic zones (Nos.)	03
Geographical area (lakh ha)	138
Forest cover (lakh ha)	63.36
Net Cultivable area (lakh ha)	47.75
Cropping Intensity (%)	138
Net Area under Irrigation (lakh ha)	16.87 (35%)
Source of irrigation	Cannels, Tanks, Tube wells, wells
Average rainfall (mm)	1327
Farm families (lakh)	37.36
Small & marginal farmers (%)	80

6.1.Crop Scenario: (2013-14)

Sr.No.	Crop	Area (lakh ha)		Production (Lakh tonnes)		Yield (Kg/ha)	
		DES	CLR	DES	CLR	DES	CLR
1.	Paddy	38.02	36.57	67.16	74.52	1766	2021

Source-DES, M/A (IV Adv. Est.) / CLR-State

6.2. Crop Coverage Kharif (2014-15)

Sr. No.	Crop	Area (lakh ha)		Production (Lakh tonnes)		Yield (Kg/ha)	
		Target	Achi.*	Target	Achi.*	Target	Achi.*
1.	Paddy	36.41	36.92	75.00	76.81	2060	2080

*- 1st Estimates, SDA, CG

7. Financial Progress

7.1. Physical and financial progress during 2010-11 to 2012-13 is at Annexure I

7.2. Allocation & Expenditure : (2013-14)

S. No.	Name of Crop/ Scheme	Unspent Balance as on 1.04.13	Provision	Total release	Rs. in Lakh	
					Expenditure	Unutilised
1	Paddy		15401.29	10225.00	9430.63	

Details of physical and financial progress is at Annexure –II.

7.3. Allocation & Expenditure Kharif: (2014)

S. No.	Name of Crop/ Scheme	Unspent Balance as on 1.04.14	Allocation	Release	Rs. in Lakh	
					Expenditure (upto Oct., 2014)	
1	Paddy		15052.23	8050.00	5363.84	

Details of physical and financial progress is at Annexure –III

8. Details of field visit/ Activities

Dr. M. Din, Senior Scientist, CTCRI, Cuttack could not accompany the team due to his transfer from CTCRI. The visit was decided and it proceeded as per schedule. Districts of Balod, Durg and Bemetara of Chhattisgarh state were visited from 15th October to 16th October, 2014. District level functionaries and KVK scientist from Durg district, also accompanied.

S.N.	District	Block	Village/Institute	Activities/observation
1.	Balod		Bodrasa	Hybrid SRI, variety DRR H2
		Gurur	Fagundeeh	Hybrid Rice-JKRH 401
		Gurur	Anandpur	Paddy Thresher
			Khairdigi Panchyat-Mudgahan	Chck dam
2.	Durg			1) KVK, Durg, Farmerø Information Advisory Centre (FIAC) ATMA 2) Block Multi Purpose Farmerø Advisory Centre (BMPFAC)
		Durg	Bilodi	Power Tiller
			Malud	Krishak Club (RKVY-2010)
		Dhamdha	Hirri	Demonstration HYV MTU 1010 (35 ha)
		Dhamdha	Chicha (Kisan Gosthi)	Transplanted Paddy Hybrid DRR H2 (91.8 ha)
			Dodaki	Transplanted Paddy Hybrid DRR H2 (25-30 tillers) 335-340 grains per ear
		Dhamdha	Nandvai	Arhar (LRG 41) + Soybean (JS 335)
3.	Bemetara		Sawatpur Oteband Bhimpuri	<ul style="list-style-type: none"> Hybrid Rice (VNR 2245)- 100 hectare demonstration Also CCE plot (5 x 5 m) conducted by Deptt.
			Singhpur	Check dam (Total cost Rs. 9.66 lakh)

9. Observations

- 9.1. The cost norms and interventions on input etc. on the demonstration for promotion of high yielding/hybrid rice, line sowing under different eco-systems, technology demonstration on tissue culture plant of sugarcane are at *Annexure IV&V*. During the period from 2011-12 to 2013-14, the input cafeteria for laying out demonstration was decided by Govt. Of India.

The norms of the demonstrations for different Eco-system are @ Rs. 7500/- per ha however, from the current year 2014, the state has been provided the flexibility to recommend **input cafeteria** (within the prescribed norms) in consultation with the SAU as per the requirement of agro-eco-situations (*the details of the norms/interventions and input cafeteria from (2011-12 to 2013-14) and from 2014-15, are enclosed at Annexure IV&V respectively*).

- 9.2. The component of marketing support, aims at development of open auction yard (platform for procurement of paddy, is included w.e.f. 2013-14. Owing to little budget, no work was sanctioned during 2013-14. During the current year, the state is yet to finalize the identification of work and its sanction etc.
- 9.3. Crop Coverage during Kharif 2014 and likely production prospects are given under **Para No.6.2.**
- 9.4. The grass root extension functionaries, as a general trend across the country, are assigned with extra duties of other Department.
- 9.5. No perspective plan was prepared for any of the check dam, Minor Irrigation Tank (MIT) area which is otherwise a pre-requisite for any of the soil and water conservation activity/programme, both as mid term and long term strategies.
- 9.6. The *õ*Krishak Clubö with financial assistance of Rs. 50,000/- each under RKVY during 2010, with 12 members in village-Marud, district Durg is running well with all inputs (pesticides/micronutrients). It is doing good business and earns a profit of Rs. 75-80,000/- per annum. In district Durg a total of 12 such club exists.
- 9.7. Farmers reported that paddy variety MTU 1075 distributed under NFSM, through NSC, has *-Kargaø*infestation in village Purai, block Durg.

- 9.8. Interactions with farmers in Kisan Gosthi in Block Dhamdha (Distt.-Durg) has given to understand that this area is major pigeonpea (Var. LRG-41) growing area. A total of 10090 hectares area under sole crop and 600 hectares area under soybean + pigeonpea intercropping is covered. 15-20 % loss of soybean (var. PK 9560) was observed due to ~~dhudhud~~cyclone.
- 9.9. In village Sawatpur (distt.- Bemetara) hybrid Rice VNR 2245, was being harvested. A Crop Cutting Experiment (CCE) in 5X5 mts area by the Department under the supervision of RAEO+ADO+HQ/ASO was also going on.
- 9.10. A check-dam with a total cost of Rs. 9.66 lakh constructed in village Singhpur of district Bemetara was seen. The Base line survey on Socio-Economic Status (SES) of the farmers, cropping system and perspective plan for development of agriculture and allied activities was, however, lacking in for the treated area.
- 9.11. Farmers are adopting new agro-techniques (organic farming) for achieving higher yield of paddy but accreditation of organic produce and its marketing has become a bottle neck. Paddy procurement ceiling @10 q/acre/ by govt of Chhattisgarh was observed as a major cause of concern amongst Paddy growers. The Procurement ceiling as against the tentatively higher production levels would involve distress sale of the produce and loss to farmers.

10. Recommendations/Suggestions

- 10.1. The developed check dam/MIT should also have a base ó line/ bench mark survey on SES and existing cropping pattern/agricultural system, suggestive crop production plan so as to evaluate the impact of such interventions. It should have monitorable targeted outcomes under BGREI.
- 10.2. The state, based on the assets created in soil and water conservation under BGREI and NFSM, should conduct an evaluation on potential increase in irrigation and cropping intensity.
- 10.3. The efforts done on establishment of Krishak Club under RKVY-2010, need to be evaluated in terms of efficacy and proposed extended roles in ToT and organic farming etc. These or such other Clubs/SHGs may be upgraded or extended under BGREI also. These may also function as CHCs.

- 10.4. To include the component of ownership and participatory approach, farmers should be strengthened by formation of SHG. Component of Agro-forestry, seed production, vegetable production, poultry and AHD activities should be planned to promote organic production.
- 10.5. The viability period of check dam /MIT should also be worked out in these projects which is otherwise lacking. It is felt that soil and water conservation functionaries need skill development and capacity building in the changed scenario of depleting national resources.
- 10.6. To ensure better quality of construction and civil work, a provision of mortar quality check and inspection by third party should be incorporated by the department.
- 10.7. The paddy growers of the area, under DSR, are inclined to opt line sowing, hence a good number of seed-cum-fertilizer drills and other machinery support through CHCs may be planned.
- 10.8. The constraints of getting 100 hectare cluster demonstration, prescribed under BGREI, need to be relaxed in terms of **maximum limit of 2 hectares per beneficiary**.
- 10.9. The state has suggested to permit promising old/existing paddy varieties under BGREI demonstration.
- 10.10. On the pattern of flexibility to state to decide input cafeteria in consultation with SAU (cluster demonstration), the shelves of agricultural implements and machineries should also be left at the wisdom of the state to be decided as per the location specific needs of the district/blocks in the state.
- 10.11. Implementation of BGREI and NFSM (Paddy) with almost same objectives and interventions in the state, necessitates a convergence of these two schemes for effective programme implementation, monitoring and better synergistic approach and outcome. Running two similar schemes in the same district need a policy revisit at DAC level.
- 10.12. A perspective plan, constitution of **water user committee** and number of diesel/electric pump-sets etc. needed should be a mandatory document before selection of site of check dam/Minor Irrigation Tank (MIT). These components should also be the part of construction estimate so as to increase the cropping intensity or other allied activities to enhance the livelihood of the people and sustain the development efforts.
- 10.13. The assets created under BGREI and implements machineries distributed should be properly popularised by erecting cement/GI sheet board at the site of infrastructure and

by putting permanent sticker/marker on machinery indicating name of scheme, subsidy and year of execution etc.

10.14. Pendamethalin has been found as ineffective weedicide (pre-emergence) at several places. Farmers of the area has revealed superiority of Novino Gold weedicide.

10.15. The soil conservation functionaries should be advised to mandatory preparation of documents of the base line survey on the agronomic or other allied activities, socio-economic status of the beneficiaries of check dam/MIT area and the proposed cropping system or dove-tailing of the on-going programmes on Agriculture, Animal Husbandry, Dairying, Horticulture, Fisheries etc. in consultation with the agricultural extension functionaries.

10.16. To develop a strong interface between the Development and Research (CDDs and ICAR/IRRI), there is need that the **FLDs allocated by the Commodity specific organizations of ICAR should be endorsed to the CDDs to facilitate the monitoring of FLDs. Usually there is lukewarm response from the SAUS/KVKs/ICAR Institutes etc. to facilitate a quick visit at the field level.** There is a general feeling that the onus of programme and its monitoring rests with the ICAR, not with the Development Department.

10.17. The labour constraints also warrants for paddy transplanter at CHCs level.

(Dr. A.K. Tiwari)

Convenor

(Shri S.R. Verma)

Member



Mechanization: Interaction with power tiller beneficiary



Interactions with the Farmers of Krushak Club developed under RKVY



Field inspection: Paddy



Pigeonpea+Soybean inter-cropping



Farmers Advisory Centre at ATMA, Durg



Asset Building: Check dam at district Bemetra



Inspection of the Crop Cutting Experiment Plot by the Department (5x5 meter plot size)



Hybrid Rice Cluster Demonstration



Visiting the harvested plot of cluster demonstration



Check dam site visit



Check dam

ANNEXURES

Annexure I

PHYSICAL AND FINANCIAL PROGRESS (BGREI) FROM 2010-11 to 2012-13

Year	Component	Physical			Financial (Rs. in lakh)	
		Unit	Sanction by SLSC	Achi.	Sanction by SLSC	Expenditure
2010-11 (Components were not specified)	Integrated Nutrition Management/Balance fertilizer kits for Rice (0.4 ha)	Ha.	27055	27055	262.50	262.50
	Agricultural Technology Support to the farmers (recently allotted with permanent lease of forest arable land (0.4 ha))	Ha.	79900	79900	1000.00	1000.00
	Incentives to the farmers to promote line sowing of Paddy crop (Hire charges of Tractors with Seed-cum-fertilizer drill)	Nos.	1774	1774	12.99	12.99
	Distri. of seed minikits of pulse & oilseeds as the minor crop in intercropping / mixed cropping/ bund farming	Nos.	136640	136640	208.30	208.30
	Construction of runoff management structures (Checkdam)	Nos.	224	224	2000.00	2000.00
	Construction of Minor Irrigation Tanks	Nos.	100	100	2000.00	2000.00
	Dem. of Technolgy with special emphasis on Tissue culture plant of Sugarcane-0.5 ha.	Nos.	3091	3091	227.43	227.43
	Promotion of High yielding / hybrid demonstration of rice	Ha.	15119	15119	250.98	250.98
	Subsidy to farmer for Well and Pumps as per Shakambhari Yojna norms	Nos.	107 New well & 5109 Pumps	107 New well & 5109 Pumps	730.61	730.61
	Administrative and Contingency Expenses on Monitoring etc.				22.19	22.19
	Total (2010-11)				6715.0	6715.0
2011-12	Block Demonstratio (Paddy)	Ha.	44000	44000	2706.57	2706.57
	Asset Building	Nos.	18405	18405	652.62	652.62
	Site Specific Needs	Nos.	186	186	2161.91	2161.91
	Total (2011-12)				5521.1	5521.1
2012-13	Block Demonstratio (Paddy)	Ha.	138724	145297	6598.80	6580.80
	Asset Building	Nos.	86275	86275	4819.50	4819.50
	Site Specific Needs	Nos.	380	380	1731.70	1731.70
	Total (2012-13)				13150.0	13132.0

Physical and Financial Progress during 2013-14

Sr.No.	Components	Physical		Financial (Rs. In lakh)	
		Target	Achievement	Target	Achievement
A.	Rice Block Demonstration				
1	(a) Rainfed Upland Rice	20400	20688	1614.05	1270.88
	(b) Shallow Low land Rice	30400	31205	2405.25	1877.75
	(c) Irrigated - Traditional Variety	39394	37268	2699.28	2208.56
	(d) Irrigated - Hybrid	20900	20379	1633.75	1363.5
	Total (A)	111094	109540	8352.33	6720.69
B.	Assets Building				
2	Dug Wells/Borewell	3000	0	900	0
3	Paddy Transplanters	0	31	60	11.6
	(Asst.@ Rs. 40,000 /- unit)				
4	Distri. of Agri.Impl. As per MMA Norms	0	5084	700	561.46
	Total (B)			1660	573.06
C	State Specific				
5	Construction of Check dams	273	236	2507.43	1867.83
6	Construction of MIT	35	20	837.53	269.06
	Total (C)			3344.96	2136.89
D	Marketing Support			2044	0
	Grand Total (A+B+C+D)			15401.3	9430.63

Annexure III

Physical and Financial Progress during 2014-15

Sr. No.	Components	Physical		Financial (Rs. In lakh)	
		Target	Achievement	Target	Achievement
1.	Block Demonstration				
	(a) Rainfed Upland Rice Unit Cost : Rs. 7500 per ha.	15000	9433	1125.00	287.74
	(b) Shallow Low land Rice Unit Cost : Rs. 7500 per ha.	28300	15989	2122.50	619.67
	(c) Irrigated - Traditional Variety Unit Cost : Rs. 7500 per ha.	41500	25484	3112.50	692.98
	(d) Irrigated - Hybrid Unit Cost : Rs. 7500 per ha.	22533	42779	1689.98	2279.05
	TOTAL (Demonstration)	107333	93685	8049.98	3879.44
2.	Shallow Tub Well @Rs. 20000 per unit (अधिकतम देय अनुदान रु. 20000/- प्रति ईकाई, खनन रु. 5000/- + पम्प रु. 15000)	2500	1050	500.00	192.40
3.	Borewell @Rs. 30000 per unit	2000	20	600.00	0.00
4	Agriculture Implements				
a	Zero till seed drills 50% cost limited (अधिकतम रु. 15000)	40	9	6.00	0.00
b	Seed Drills 50% cost limited (अधिकतम रु. 15000)	50	0	7.50	0.00
c	Power Weeders 50% cost limited (अधिकतम रु. 15000)	10	0	1.50	0.00
d	Paddy Thresher 50% cost limited (अधिकतम रु. 15000)	0	0	0.00	0.00
e	Self propelled paddy transplanter 50% cost limited (अधिकतम रु. 75000)	30	8	22.50	5.00
f	Conoweeder 50% cost limited (अधिकतम रु. 600)	1000	995	6.00	6.00
g	Manual Sprayers 50% cost limited (अधिकतम रु. 600)	1000	0	6.00	
h	Drum Seeders 50% cost limited (अधिकतम रु. 1500)	50	15	0.75	
i	Power Knapsack Sprayer 50% cost limited (अधिकतम रु. 3000)	800	234	24.00	7.00
j	Multi-crop Thresher 50% cost limited (अधिकतम रु. 40000)	195	25	78.00	4.00
	Total Implements	3175	1286	152.25	22.00
5	Construction of Check dams in Govt. Land @ Rs. 10 Lakh	389	153	3890.00	1270.00
6	Construction of MIT in Govt. Land @ Rs. 25 Lakh	10		250.00	0.00
	Marketing Support (Construction of Pakka Chabutra for Stacking of paddy purchased by PACS)	10		1610.00	0.00
	Grand Total			15052.23	5363.84

Input Cafeteria, Intervention & Cost Norms (2010-11 to 2013-14): Demonstration under Different rice production system:

Cost per Hectare (Rs.)								Remarks
S. No.	Activity	Rainfed Upland Rice	Rainfed Low Land rice			Irrigated Rice		
			Shallow Lowland (0-15cm)	Medium Deep Water (25-50)	Deep Water (50-100cm)	Traditional	Hybrid Rice	
1.	Deep Ploughing and Land Preparation	1500	1500	1500	1500	1500	1500	Extra Cost if any will be met by the Farmer
2.	Seed*	2000	2000	2000	2000	1000	2000	<ul style="list-style-type: none">Seed cost Rs 25/Kg.80Kg /ha for Rainfed Upland Rice and Shallow low land rice direct seeding100Kg/ha for direct seeding and 40Kg/ha for transplanted rice under medium deep water and deep water rice (average is 70Kg/ha)40Kg/ha for irrigated rice and15Kg /ha for hybrid rice and cot of hybrid rice is Rs. 150/Kg.
	Direct Seeding (Line sowing by drum seeder)/ Transplanting	1500	1500	1500	1500	1500	1500	<ul style="list-style-type: none">Only labour costDirect line sowing in rainfed upland and shallow low land** 50% area is direct seeding and 50% transplanted of medium deep and deep water rice100% transplanting for irrigated rice
3.	Seed treatment	120	120	105	105	60	25	<ul style="list-style-type: none">Bavistin @ 2.5g/Kg seed ,rate of Bavistin Rs 600/Kg

4. Micro Nutrient								
4. A	Zinc	875	875	875	875	875	875	<ul style="list-style-type: none"> • 25 Kg/ha cost of Rs. 35/Kg
4. B	Boron	275	275	275	275	275	275	<ul style="list-style-type: none"> • 5 Kg/ha Cost of Rs.55/Kg
5.	Weed Management	640	640	640	0	640	640	<ul style="list-style-type: none"> • Pretlachlor 1.6 Lt/ha, cost Rs. 400/Lt • For SRI-Conoweeder, manual
6.	Plant protection	700	700	700	700	700	700	
7.	Staff cost/Hand holding							One staff foe 1000 hectare and he will be paid Rs. 1000 per month as honorarium and Rs.1000 per month mobility for a period of six months. It comes out to be Rs 12 per ha. For one staff for one paddy season.
7. A	Honorarium	6	6	6	6	6	6	
7 B.	Mobility	6	6	6	6	6	6	
8.	Progressive Farmers							Progressive Farmer Cost: One progressive farmer for every 100 ha will be paid Rs. 1000 as honorarium and Rs. 1000 per month for mobility for a period of six months. It comes out to be Rs 120 per ha. For one farmer for one paddy season.
8 A.	Honorarium	60	60	60	60	60	60	
8. B	Mobility	60	60	60	60	60	60	
9.	Provision of Drum Seeder	70	70	70	70	70	70	Each Progressive farmer will be provided two drum seeder whose cost is Rs. 3500 for one
10.	Travel Cost for KVK Scientist/State Officials/GOI Officers	100	100	100	100	100	100	For meeting the POL/TA/DA of KVK Scientists.
Total		7912	7912	7897	7257	6852	7817	

Annexure-V

Input Cafeteria / Intervention & Cost Norms (2014 – 15) Cluster Demonstration on rice

- Eco-system : (A) Upland Rainfed.
- Method of Sowing : Direct seeded / line sowing.
- Area Proposed for Demonstration : 15,000 ha.
- Varieties to be used : 1. Variety released within 10 yrs. : Samleshwari, Chandrahasini, Indira Barani dhan-1, etc.
2. Variety released more than 10 yrs. :- MTU 1010, IR 36, 64, etc.

Activity wise cost norms :

S.No.	Activity / Particular	Direct Seeded / Line Sowing	
		Variety released with 10 yrs.	Variety released with more than 10 yrs.
1	Seed	1200	-
2	Land Preparation	1000	1000
3	Sowing (Direct Seeded / Line sowing)	600	1000
4	Zinc sulphate 25 kg/ha. or other micro nutrient as per recommendation by SAU/KVK green manure seed / bio-fertilizer	1800	1800
5	Weedicide (1 pre and 1 post emergence)	1200	1200
6	Ambika Paddy Weeder / Kono Weeder	-	800
7	IPM (PP chemicals/Bio Pesticides)	900	900
8	Demonstration Board, Training Materials, farmers training, field day, POL, Vehicle hiring / Visit of Scientist / State Officers and other contingencies.	800	800
	Total	7500	7500

Eco-system : **(B) Shallow water Rice**

Method of Sowing : Direct seeded / line sowing.

Area Proposed for Demonstration : 28,300 ha.

Varieties to be used : 1. Variety released within 10 yrs.: Karma Masuri, ND 2359, Samaleshwari, IGKVR 2.

2. Variety released more than 10 yrs.:- MTU 1010, MTU 1001, Swarna.

Activity wise cost norms :

S.No.	Activity / Particular	Direct Seeded / Line Sowing	
		Variety released with 10 yrs.	Variety released with more than 10 yrs.
1	Seed	1200	-
2	Land Preparation	1000	1000
3	Sowing (Direct Seeded / Line sowing)	500	900
4	Weedicide (1 pre and 1 post emergence)	1200	1200
5	Zinc sulphate 25 kg/ha. or other micro nutrient as per recommendation by SAU/KVK green manure seed / bio-fertilizer	1850	1850
6	Ambika Paddy Weeder / Kono Weeder	-	800
7	IPM (PP chemicals/Bio Pesticides)	950	950
8	Demonstration Board, Training Materials, farmers training, field day, POL, Vehicle hiring / Visit of Scientist / State Officers and other contingencies.	800	800
	Total	7500	7500

Eco-system : **(C) High yielding variety-Irrigated**

Method of Sowing : Transplanting/SRI.

Area Proposed for Demonstration : 41,500 ha.

Varieties to be used : 1. Variety released within 10 yrs. : Karma Masuri, PKV-HMT, Chandrahasini, IGKVR 1, 2, 3 etc.

2. Variety released more than 10 yrs. :- MTU 7029 (Swarna), MTU 1001, BPT 5204, MTU 1010 etc.

Activity wise cost norms :

S.No.	Activity / Particular	Normal Planting @40kg/ha		SRI @ 15 kg/ha	
		Variety released with 10 yrs.	Variety released with more than 10 yrs.	Variety released with 10 yrs.	Variety released with more than 10 yrs.
1	Seed	1200	-	300	-
2	Land Preparation	1500	1500	1500	1250
3	Sowing (Direct Seeded / Line sowing)	100	1000	1500	1250
	Ambika Paddy Weeder / Kono Weeder	-	800	-	800
4	Zinc sulphate 25 kg/ha. or other micro nutrient as per recommendation by SAU/KVK green manure seed / bio-fertilizer	1850	1850	1850	1850
5	Weedicide (1 application)	600	600	600	600
6	IPM (PP chemicals/Bio Pesticides)	950	950	950	950
7	Demonstration Board, Training Materials, farmers training, field day, POL, Vehicle hiring / Visit of Scientist / State Officers and other contingencies.	800	800	800	800
8	Total	7500	7500	7500	7500

Eco-system : **(D) Hybrid Rice**

Method of Sowing : Transplanting / SRI

Area Proposed for Demonstration : 22,533 ha.

Varieties to be used : Only notified Rice Hybrids suitable for Chhattisgarh state.

Activity wise cost norms :

S.No.	Activity / Particular	Transplanting / SRI
1	Land Preparation	500
2	Seed	3750
3	Sowing (Transplanting / SRI)	500
4	Weedicide (1 pre and 1 post emergence)	1200
5	Zinc sulphate 25 kg/ha. or other micro nutrient as per recommendation by SAU/KVK green manure seed / bio-fertilizer	650
6	Weedicide (1 Application)	600
7	IPM (PP chemicals/Bio Pesticides)	700
8	Demonstration Board, Training Materials, farmers training, field day, POL, Vehicle hiring / Visit of Scientist / State Officers and other contingencies.	800
	Total	7500