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BRINGING GREEN REVOLUTION TO EASTERN INDIA (BGREI)

REPORT OF THE NATIONAL LEVEL MONITORING TEAM (NLMT)

CHHATTISGARH



सत्यमेव जयते

**GOVERNMENT OF INDIA
DEPARTMENT OF AGRICULTURE, COOPERATION & FARMERS WELFARE
MINISTRY OF AGRICULTURE & FARMERS WELFARE
DIRECTORATE OF PULSES DEVELOPMENT
BHOPAL (M.P.)**

(KHARIF, 2016)

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ABBREVIATIONS

1. BGREI - Bringing Green Revolution in Eastern India
2. CCR- Crop Cutting Results
3. NRRI- National Rice Research Institute
4. DLMT- District Level Monitoring Team
5. GSC- General Steering Committee
6. KVK- Krishi Vigyan Kendra
7. MITs- Minor Irrigation Tanks
8. NFSM- National Food Security Mission
9. NLMT- National Level Monitoring Team
10. RKVY - Rashtriya Krishi Vikas Yojana
11. SLMT- State Level Monitoring Team
12. ToT- Transfer of Technology
13. HYVs – High Yielding Varieties
14. DES- Directorate of Economics and Statistics
15. CLR- Commissionerate of Land Revenue

PREFACE

The Department of Agriculture, Co-operation & Farmers Welfare, Ministry of Agriculture & Farmers Welfare, Government of India constituted a National Level Monitoring Team (NLMT) for monitoring of the implementation of special initiatives and interventions on crop development programme on Bringing Green Revolution to Eastern India (BGREI) activities. The BGREI is under implementation in the states of Assam, Bihar, Chhattisgarh, Jharkhand, Odisha, Eastern Uttar Pradesh (Purvanchal) and West Bengal states. The Team is comprised of scientist from ICAR-National Rice Research Institute (NRRI), Cuttack, Nodal officer/Nominated member from State Department of Agriculture.

The Terms of Reference (ToR) include: i) The Director, Govt. of India, Department of Agriculture & Farmers Welfare Crop Development Directorate (CDD)/ Directorate of Pulses Development, Bhopal to act as Convenor & Team Leader 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) To study quantitative and qualitative achievement and impact of the delivery mechanism and documentation with visual and video films v) The analysed report to incorporate concrete suggestions/recommendations for necessary corrections for better implementation of the Mission.

The other member from Nodal officer/ nominated member from State Department of Agriculture, Govt. of Chhattisgarh could not participate in this NLMT visit. However, active involvement of Dr. K. Chattopadhyay, Principal Scientist (Plant Breeding) & Member from ICAR-National Rice Research Institute (NRRI), Cuttack and district level functionaries was ensured to effectively monitor the implementation status of BGREI during kharif 2016.

I am thankful to Shri Ajay Singh Addl. Chief Secretary & APC, Shri Anoop Kumar Shrivastava, Secretary (Agri) and Shri M.S. Kerketta, Director (Agriculture), Govt. of CG for having ensured requisite representation of officers from Government and logistic support for intensive field visit and to my officer Shri Vipin Kumar, Assistant Director to coordinate and lead the NLMT. I acknowledge the coordination of Shri P. C. Baghel, Joint Director and Nodal Officer BGREI, C.G and the technical officer Dr. A.K. Shivhare, Assistant Director, Shri Sarju Pallear, SI, Dr. Sandip Silawat, STA,,Smt Ashwini Bhowre, and Shri Sateesh Dwivedi, TAs (NFMS) of the Directorate of Pulses Development, Bhopal in bringing out the report publication.

Bhopal (M.P.)
03rd October, 2016

(Dr. A. K. Tiwari)
Director

REPORT OF CHHATTISGARH : NATIONAL LEVEL MONITORING TEAM TO REVIEW THE IMPLEMENTATION OF BRINGING GREEN REVOLUTION TO EASTERN INDIA (BGREI) IN THE STATE OF DURING KHARIF 2016 .

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 07 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. From the year 2015-16 the funding share between GOI & state Govt has been 60:40. The allocation of funds amongst seven major interventions is nearly 40% of the total funds for block/ cluster demonstrations, 10%-Seed distribution (HYV/ Hybrids), 5% -Seed production(HYV/ Hybrids), Need based Inputs (a) 5% Micro nutrients & soil ameliorants (b) 4%- Plant protection chemicals (c) 1% Cropping System based training , 20 % of the funds for asset building (farm machines & implements, irrigation devices) activities, 10% of the funds for site specific activities and 5% Marketing support including Post harvest Management and about 1% of the funds were earmarked for monitoring activities at national level.

Of the total targeted block/cluster demonstrations, 30% funds have been earmarked for cropping system based demonstrations (CSBD) to be organized on stress tolerance rice varieties.

3. AREA OF OPERATION

Commodity/ Crops covered	All India		Districts covered in Chhattisgarh (Nos.)	
	States (Nos.)	Districts (Nos.)		
Rice	7	106	14	Gariyaband, Mahasamund, Dhamtari, Durg, Balod, Bemetara, Janjgir, Sarguja, Surajpur, Balrampur, Kanker, Narayanpur, Jagdalpur, Kondagaon
Wheat	6	52	14	Gariyaband, Mahasamund, Dhamtari, Durg, Balod, Bemetara, Janjgir, Sarguja, Surajpur, Balrampur, Kanker, Narayanpur, Jagdalpur, Kondagaon

4. REVIEW/MONITORING MECHANISM

Level	Composition		Frequency of Meeting
Central	Central Steering Committee (CSC)	Secretary (DAC&FW)- Chairman J.S. (Crops) (DAC&FW), Member Secretary	Twice in a year
National	National Level Monitoring Team (NLMT)	Director CDDs- Convener Principle Scientist, Cuttack - Member JDA, SDA - Member	Once in a crop season
State	State Steering Committee (SSC)	APC/ Principle Secretary – Chairman Director (agriculture)- Member Secretary	Quarterly
District	District Steering Committee (DSC)	DM/CDO –Chairman DDA/DAO- Member Secretary	Thrice in a crop season (Pre-sowing, Mid-season, During harvest)

5. NLMT : Composition

S.No.	Organization	Names and Designation
i.	Government of India, Ministry of Agriculture (DAC&FW) Directorate of Pulses Development Vindhyachal Bhavan, Bhopal, (M.P.).	Shri Vipin Kumar Assistant Director Coordinator
ii.	Division Crop Production ICAR-National Rice Research Institute (NRRI), Cuttack (Odisha)	Dr. K. Chattopadhyay Principal Scientist (Plant Breeding) (Member)
iii.	Directorate of Agriculture, Govt. of Chhattisgarh, Labhandi, Raipur (CG)	Shri P.C. Baghel, Joint Director (Member)

6. State Profile : CG

Agro-climatic zones (Nos.)	03
Geographical area (lakh ha)	138
Forest cover (lakh ha)	63.36 (46%)
Net Cultivable area (lakh ha)	47.75
Cropping Intensity (%)	138
Net Area under Irrigation (lakh ha) Sources of irrigation	16.87 (35%)
Average rainfall (mm)	1327
Farm families (lakh)	37.46
Small & marginal farmers (%)	80
ST & SC	32% ST & 12% SC

7. Rainfall

Year	Rainfall received (mm)		
	Normal	Actual	Deviation from Normal
Aveg. Annual Rainfall 2015-16	1134.00	983.50	- 150.50
Aveg. Annual Rainfall (1 st June to 30 th September 2016)	1152.50	1176.70	24.20

8. Crop Scenario of Paddy -(2014-15) and (2015-16)

(A-Lakh ha, P- Lakh tonnes, Y- kg/ha)

S. No.	Description	Area		Production		Yield (kg./ha.)	
		DES	CLR	DES	CLR	DES	CLR
Year 2014-15							
1	BGREI Districts (14)	1903.39	1903.39	4257.42	4268.67	2213	2140
2	State (27)	3756.80	3756.80	7589.75	7565.12	2098	2050
Year 2015-16							
3	BGREI Districts (14)	1900.49	Still awaited	2123.01	Still awaited	1348	Still awaited
4	State (27)	3708.78		4192.00		1322	

9. Crop Cutting Results (2015-16)

Demonstration	Crop cutting result (Demo.Plot)		Crop cutting result (Control. Plot)	
	Production of 5x5 (kg.)	Per ha. Production (Qtls.)	Production of 5x5 (kg.)	Per ha. Production (Qtls.)
Direct Seeded Rice	7.15	28.61	5.86	23.44
Line Transplanting	9.48	37.69	7.77	31.06
SRI	9.85	39.40	6.85	27.41
Stress Tolerance	8.77	34.95	7.14	28.58
Hybrid	10.51	42.14	8.88	35.53
Cropping System Based	9.99	39.98	7.77	31.07

10. Allocation and Expenditure

Year	Name of Crop	Unspent Balance	Allocation	Total Release	Unutilized
2015-16	Paddy	1281.02	14839.70	13417 + 1281.02 =14698.02	10879.40
2016-17 (upto Aug.2016)	Paddy	453.16	15001.93	8275 + 453.16 = 8728.16	2889.31

11. DETAILS OF FIELD VISIT/ ACTIVITIES

Shri P.C. Baghel, Joint Director & Member, Govt. of Chhattisgarh, Directorate of Agriculture, Raipur (C.G.) could not accompany the team. District of Mahasamund and Griyaband of Chhattisgarh state were visited alongwith district level functionaries, KVK Scientists of Mahasamund and Griyaband districts from 6th to 8th September, 2016.

S. No	District	Block	Villages	Activities/Observation
1.	Mahasamund	Mahasamund	i) Achankpur	Cluster demonstration of paddy 40 ha. No. of farmers included- 40 Eco-system- Stress tolerant variety Variety- Rajeshwari (Release of year 2011) Date of transplanting – 03.08.2016 to 08.08.2016 Crop Stage- Maximum tillering stage No. of tillers counted 18 to 21, Spacing 20 cm x 15 cm No disease & insect found Arhar variety- LRG-6 has been given to farmers for bund planting but farmers have not been planted. Control plot variety – Swarna
			ii) Bandora	Cluster demonstration of paddy 60 ha. No. of farmers included – 40 Variety-Raheshwari (Release of year 2011) Ecosystem- Stress Tolerant Variety Date of transplanting – 02.07.2016 Crop Stage- Maximum tillering stage No. of tillers counted 10 to 12 Spacing 20 x 15 cm.
			iii) Chhaporadi	Check dam constructed during 2014-15, was shown to team. This check dam cover, 10 ha paddy crop area for irrigation. Total expenditure of check dam 9.91 lakh. Breath - 16 meter , opening 1.20 m.x 4 Height 1.20 m.
			iv) Amora-2	Check dam constructed during 2014-15, was shown to team. This check dam cover, 10 ha paddy crop area for irrigation. Total expenditure of check 9.99 lakh. Breath -16 meter , opening 1.20 m.x 4 Height 1.20 m.
			v) Raitum	Check dam constructed during 2015-16, was shown to team. This check dam cover, 10 ha paddy crop area for irrigation. Total expenditure of check 9.91 lakh. Breath -16 meter , opening 1.20 m.x 4 Height 1.20 m.
			vi) Paraswani	Check dam constructed during 2015-16, was shown to team. This check dam cover, 10 ha paddy crop area for irrigation. Total expenditure of check 9.84 lakh.

		Pithora	vii)Sonasilli	Cluster demonstration of paddy 50 ha. No. of farmers included – 70 Variety- Hybrid CO-4 (Release of year 2013) Ecosystem- Line transplanting Date of transplanting – 27.07.2016 Crop Stage- Maximum tillering stage No. of tillers counted 08 to 11 Fertilizer used per ha. DAP 87.5 kg, Urea 75 kg, SSP 62.5 kg Insect stem borer has been seen behind ETL	
		Bagbahara	viii)Dondrapali	Cluster demonstration of paddy 100 ha. No. of farmers-62 Variety- Swarna sub-1(Release of year 2009) Ecosystem- Line transplanting Date of transplanting – 10.07.2016 Crop Stage- Maximum tillering stage No. of tillers counted 10 to 13 No insect pest. Control plot variety-MTU-1010 Crop stage- Panicle initiation stage No. of tillers -11 to 13	
			ix)Kamrod	Cluster demonstration of paddy 100 ha. No. of farmers-110 Variety- Rajeshwari (Release of year 2011) Ecosystem- Line transplanting Date of transplanting – 21.07.2016 Date of transplanting – 21.07.2016 Crop Stage- Maximum tillering stage No. of tillers counted 12 to 13 No attack insect pest disease in the field.	
				x)Mamabhacha	Multi thresher/ beneficiary- 2015-16, Subsidy Rs. 35000/-, Total cost Rs. 1.35/- lakh, Crop – Paddy, Capacity of the thresher 28 quintal / hour.
2.	Gariyaband		Fingeshwar	i) Somerkona	Cluster demonstration of paddy 50 ha. No. of farmers-34 Variety- Hybrid US 382 (Release of year 2012) Ecosystem- Line transplanting Date of transplanting – 21.07.2016 Crop Stage- Maximum tillering stage No. of tillers counted 11 to 18 Insect leaf folder seen below ETL

		ii) Bakli	Cluster demonstration of paddy 40 ha. No. of farmers-22 Variety- PKV HMT (Release of year 2008) Ecosystem- Line transplanting Used – Paddy Transplanter for transplanting Date of transplanting – 18.07.2016 Crop Stage- Maximum tillering stage No. of tillers -12 to 13 Roughing is required. Attack of blast disease and Aphid below ETL plants have been seen in the field
		iii) Shyam nagar	Cluster demonstration of paddy 50 ha. No. of farmers included -32 Ecosystem- Cropping system based demonstration Date of transplanting – 22.07.2016 Variety- Sambha Masoori (BPT-5204) (Release of year 1989) Crop Stage- Maximum tillering stage No. of tillers -13 to 24 Crop rotation Paddy- Gram Attack of blast disease below ETL
	Chhura	iv) Rajankata	Cluster demonstration of paddy 20 ha. Variety- Sambha Masoori (Release of year 1989) No. of farmers-12 Ecosystem- Cropping system based demonstration Date of transplanting – 21.07.2016 No. of tillers -22 to 25 Crop Stage- Maximum tillering stage Crop rotation- Paddy- Gram
		v) Rajankata	Rotavator beneficiary during 2015-16 Subsidy Rs.35000/- Total cost Rs. 105000/-
		vi) Kherjhiti	Cluster demonstration of paddy 50 ha. No. of farmers-87 Variety- Sambha masoori (Release of year 1989) Ecosystem- SRI method Date of transplanting – 13.07.2016 No. of tillers -25 to 35 Crop Stage- Maximum tillering stage

12. Observations:

- 11.1 The District Level Monitoring Team (DLMT) has been formulated in the visited districts in the month of August, 2016. However, no visit has been conducted by the D.L.M.T. in this crop season.
- 11.2 The District Steering Committee (DSC) has not been constituted in visited districts.
- 11.3 Paddy variety PKV HMT has been given cluster demonstration in the Balod district during kharif 2015, incidence of fungal disease was noticed. This observation has been given in NLMT kharif 2015. However, the same variety has again been demonstrated/distributed in cluster demonstration in Gariyaband district, during kharif, 2016. The incidence of blast disease and aphid insect were noticed (below E.T.L.)
- 11.4 Paddy variety Sambha Masuri (Release year 1989) has been given in cluster demonstration in Gariyaband district. Incidence of Blast disease was noticed. However, this variety is more than 10 years.
- 11.5 In general, the paddy crop condition was good in visited districts.
- 11.6 Arhar variety LRG-6 has been given to the farmers for rice bund in cluster demonstrations in Mahasamund district but farmers have not planted on rice bund field.
- 11.7 The display board has been installed on cluster demonstration; however, the requisite information is missing.
- 11.8 Paddy has been planted in SRI method in low lying area, which is not advisable under SRI.
- 11.9 Information in respect of cropping system based training has not been provided.

13. Recommendations/ Suggestions

- 12.1 District Level Monitoring Team (DLMT) should visit thrice in a crop season i.e. i) before sowing, for selection of field for suitable interventions of cluster demonstration ,ii) mid crop season, to see the crop condition and disease & Pest Control and iii) at harvesting time to check the crop cutting experiments.
- 12.2 District Steering Committee (DSC) should also be constituted to prepare the district action plan on the basis of previous experiences.
- 12.3 Cropping System based training should be organised Ist at the beginning of Kharif season and IInd in during mid kharif crop situation .
- 12.4 Display board should contain information on the critical inputs used and the interventions being demonstrated.

- 12.5 Farm machineries & implements and irrigation devices etc are being provided in the other scheme (NFSM – Pulses etc) . So, Site specific Activities i.e. Check dam, stop dam etc may not only be enhanced from the present level of funding norms from 10 % to 15 % but these should have provision for 2-3 years repair and maintenance cost to the tune of 10 % of prices cost of structure. Asset Building (farm machines & implements, Irrigation devices funds-may be reduced from 20% to 15 % .
- 12.6 Paddy variety PKV HMT (Release year 2008) has been susceptibility to disease & pest may not be considered in the next programme.
- 12.7 All the soil and water conservation structures created during the BGREI (check dam/stop dam) etc do not have 05 year perspective plan. The team comprising surveyor /SCO and ADO may be deputed to prepare an extension and development plan for all these structure. The tangible targets of plan may be C1, Average crop yield level, IFS, seed grower society etc over the Base year. The NMSA, RKVY, NFSM and NHM schemes may be converged on these sites.
- 12.8 Water stress is a frequent phenomena due to scanty or uneven rainfall, in Chhattisgarh. Therefore, high yielding popular varieties should be bred/improved for drought tolerance. IR 64 is cultivated in many parts of Chhattisgarh and popular for its good grain type. But this variety cannot be incorporated in BGREI as it is older than 10 years. DRR Dhan 42 (IR 64 Drt 1) under BGREI programme, may be considered.
- 12.9 Submergence with flood water is also commonly occurred in many parts of Chhattisgarh. In place of Samba Mahsuri (BPT 5204) and Swarna (MTU 7029), we recommend to take Samba Mahsuri (BPT 5204) Sub-1 and Swarna Sub 1, respectively in submergence prone areas.
- 12.10 Varieties are being grown since long are subjected to high incidence of insect-pests and diseases. Samba Mahsuri is one of the popular varieties, being cultivated in Chhattisgarh for its good grain quality. But this variety has been notified more than 10 years and susceptible to pest and diseases such as bacterial blight. This can be replaced by Improved Samba Mahsuri (RP Bio-226), a high yielding rice variety with major bacterial blight resistance genes Xa21, xa13 and xa5.

- 12.11 High yielding varieties with high nutrient (Protein, Fe, Zn) content is required to cultivate in large scale to achieve the food and nutritional security. Presently high yielding varieties with high nutrient content are available. CR Dhan 310 (with high protein content), DRR Dhan 45 (with high Zn content) and Chattrisgarh Zinc rice 1 (with high Zn content) can be incorporated under BGREI programme.
- 12.12 Experts from the University and ICAR-National Rice Research Institute, Cuttack level should be called at the time of finalization of BGREI programme for the coming kharif season.
- 12.13 Monitoring reports of the district level monitoring committee should be compiled before the monitoring of the NLMT.

(Dr. A.K.Tiwari)

Director

DISTRICT-MAHASAMUND





DISTRICT-GARIYABAND







Physical and Financial Progress during 2015-16

Bringing Green Revolution in Eastern India - RICE
Physical and Financial Progress Year 2015-16 (upto 31.03.2016)

(Rs. in lakhs)

S. No.	Components	Target		Achievement		Utilized in 16-17
		Phy.	Fin.	Phy.	Fin.	
1	Cluster Demonstration on Rice in different eco-system (100 ha. each)					
(i)	Direct Seeded Rice @ Rs. 7,500/- per ha. (Max.)	5000	375.00	5000	337.02	
(ii)	Line Transplanting @ Rs. 7,500/- per ha. (Max.)	5000	375.00	5000	329.66	
(iii)	SRI @ Rs. 7,500/- per ha. (Max.)	5000	375.00	5000	340.66	
(iv)	Stress Tolerant Varieties @ Rs. 7,500/ha. (Max.)	24860	1864.50	21860	1527.65	
(v)	Hybrid Rice @ Rs. 7,500/- per ha. (Max.)	18173	1363.00	18412	1305.82	
(vi)	Cropping System Based @ Rs. 12,500/ ha. (Max)	14900	1862.50	14900	1653.75	2.23
	Sub Total	72933	6215.00	70172	5494.56	2.23
2	Seed Production (Varieties of less than 10 years old)					
(a)	Hybrid Rice @ Rs. 5,000 per qtls (Max.) or 75%	5000	250.00	0	0.00	250.00
(b)	Certified Seeds @ Rs. 1,000 per qtl.(Max.) or 75%	55000	550.00	43196	431.97	
	Sub Total	60000	800.00	43196	431.97	250.00
3	Seed Distribution (Varieties of less than 10 years old)					
(a)	Hybrid Rice @ Rs. 5,000 per qtls (Max.) or 50%	12000	600.00	599	29.42	1.31
(b)	Certified Seeds @ Rs. 1,000 per qtl (Max.) or 50%	100000	1000.00	16086	133.29	
	Sub Total	112000	1600.00	16685	162.71	1.31
4	Nutrient Management and Soil Ameliorants (for maximum 2 ha.) other than demonstration					
(a)	Micro Nutrient Rs. 500 per ha.	62000	310.00	49151	234.75	
(b)	Lime Rs. 1,000 per ha.	10000	100.00	5417	58.80	
(c)	Bio-fertilizers Rs. 300 per ha.	60000	180.00	25313	65.84	
(d)	Gypsum Rs. 750 per ha.	5000	37.50	1023	7.49	
	Sub Total	137000	627.50	80904	366.87	
5	Integrated Pest Management					
(a)	PP Chemicals & Bio Pesticides / Bio-Agent (Need based) Rs. 500 per ha.	49400	247.00	44711	217.82	
(b)	Weedicides Rs. 500 per ha.	49400	247.00	27404	115.42	
	Sub Total	98800	494.00	72115	333.24	
6	Assets building					
(a)	Borewell Rs. 30,000	500	150.00	451	135.30	
(b)	Drum seeders Rs. 1,500 /-	100	1.50	11	0.17	
(c)	Seed Drills Rs. 15,000/-	150	22.50	44	6.45	
(d)	Rotavater Rs. 35,000	200	70.00	423	143.49	22.40
(e)	Self propelled paddy transplanter Rs. 75,000	200	150.00	34	25.50	0.75
(f)	Pump sets Rs. 10,000/-	2000	200.00	1255	112.68	21.56
(g)	Cono-weeder Rs. 600/-	1000	6.00	3670	21.90	18.12
(h)	Manual Sprayers Rs. 600/-	8000	48.00	14717	85.87	
(i)	Power knap sack sprayer Rs. 3,000	3000	90.00	3079	83.34	
(j)	Power weeder Rs. 15,000	50	7.50	7	0.97	
(k)	Paddy thresher Rs. 40,000	150	60.00	169	66.80	8.80
(l)	Multi crop thresher Rs. 40,000	300	120.00	297	112.96	14.40
(m)	Laser land leveler (for a group of 10 farmers) Rs. 1,50,000	13	19.50	0	0.00	

S. No.	Components	Target		Achievement		Utilized in 16-17
		Phy.	Fin.	Phy.	Fin.	
6.1	Any other Agriculture Implements useful for C.G. region					
(i)	Power tiller (above 8 BHP) for General Farmers (40% of cost limited to Rs.60,000/-)	50	30.00	84	50.30	7.80
(ii)	Power tiller (above 8 BHP) for SC/ST Farmers (50% of cost limited to Rs.75,000/-)	25	18.75	56	39.57	24.00
(iii)	Self Propelled reaper for General Farmers (40% of cost limited to Rs.50,000/-)	30	15.00	67	32.00	23.13
(iv)	Self Propelled reaper for SC/ST Farmers (50% of cost limited to Rs.63,000/-)	30	18.90	53	31.95	10.22
(v)	MB Plough (Tractor above 35 BHP) for General Farmers (Rs.35,000/-)	150	52.50	202	28.55	
(vi)	MB Plough (Tractor above 35 BHP) for SC/ST Farmers (Rs.44,000/-)	100	44.00	182	28.96	
(vii)	Leveler Blade (Tractor above 35 BHP) for General Farmers (Rs.35,000/-)	75	26.25	138	15.92	0.08
(viii)	Leveler Blade (Tractor above 35 BHP) for SC/ST Farmers (Rs.44,000/-)	35	15.40	111	11.96	0.18
(ix)	Power weeders (engine operated above 2 BHP) tractor below 20 BHP for General Farmers (Rs.12,000/-)	105	12.60	9	1.08	
(x)	Power weeders (engine operated above 2 BHP) tractor below 20 BHP for SC/ST Farmers (Rs.15,000/-)	100	15.00	6	0.90	
	Sub Total	16363	1193.40	25065	1036.62	151.44
7	Site Specific					
(a)	Construction of Checkdams on Govt. land 100% Max. Rs. 10 lakh	270	2670.00	268	2638.70	48.00
(b)	Construction of Minor Irrigation Tanks on Govt. land 100% Max. Rs. 25 lakh	15	375.00	15	358.11	
	Sub Total	285	3045.00	283	2996.81	48.00
8	Post-Harvest and Marketing Support	58	794.80	0	0.00	
9	Cropping System based training (04 sessions) Rs. 14,000 per training (@ Rs. 3,500 per session)	500	70.00	452	56.62	
	Total Rice		14839.70		10879.40	452.98
	Total Wheat		1250.05		566.34	89.00
	Grand Total (Rice + Wheat)		16089.75		11445.73	541.98

Bringing Green Revolution in Eastern India (BGREI) - RICE
Physical & Financial Target and Achievement for the Month of AUG- 2016 (Year 2016-17)

S. No.	Component	Target		Achievement	
		Phy.	Fin.	Phy.	Fin.
1	Cluster Demonstration on Rice in different eco-system (100 ha. each)				
(i)	Direct Seeded Rice @ Rs. 7,500/- per ha. (Max.)	5000	375.00	5000	86.24
(ii)	Line Transplanting @ Rs. 7,500/- per ha. (Max.)	5000	375.00	5000	68.03
(iii)	SRI @ Rs. 7,500/- per ha. (Max.)	5001	375.04	5001	39.83
(iv)	Stress Tolerant Varieties @ Rs. 7,500/- per ha. (Max.)	21266	1594.96	21266	254.84
(v)	Hybrid Rice @ Rs. 7,500/- per ha. (Max.)	25000	1875.00	25000	949.29
(vi)	Cropping System Based @ Rs. 12,500/- per ha. (Max)	13000	1625.00	13000	367.07
	Sub Total	74267	6219.99	74267	1765.32
2	Seed Production (Varieties of less than 10 years old)				
(a)	Hybrid Rice @ Rs. 5,000 per qtls (Max.) or 75%	8000	400.00	0	0.00
(b)	Certified Seeds @ Rs. 1,000 per qtl. (Max.) or 75%	37750	377.50	17172	50.12
	Sub Total	45750	777.50	17172	50.12
3	Seed Distribution (Varieties of less than 10 years old)				
(a)	Hybrid Rice @ Rs. 5,000 per qtls (Max.) or 50%	5000	250.00	275	2.05
(b)	Certified Seeds @ Rs. 1,000 per qtl. (Max.) or 50%	130500	1305.00	51294	64.61
	Sub Total	135500	1555.00	51569	66.66
4	Nutrient Management and Soil Ameliorants (for maximum 2 ha.) other than demonstration				
(a)	Micro Nutrient Rs. 500 per ha.	104000	520.00	26000	2.50
(b)	Lime Rs. 1,000 per ha.	1000	10.00	176	0.00
(c)	Bio-fertilizers Rs. 300 per ha.	75000	225.00	35394	40.75
(d)	Gypsum Rs. 750 per ha.	3000	22.50	900	6.74
	Sub Total	183000	777.50	62470	49.99
5	Integrated Pest Management				
(a)	PP Chemicals & Bio Pesticides / Bio-Agent (Need based) Rs. 500 per ha.	74400	372.00	29670	7.25
(b)	Weedicides Rs. 500 per ha.	50000	250.00	35462	97.06
	Sub Total	124400	622.00	65132	104.31
6	Assets building				
(a)	Borewell Rs. 30,000	2000	600.00	555	54.00
(b)	Drum seeders Rs. 1,500 /-	100	1.50	0	0.00
(c)	Seed Drills Rs. 15,000/-	150	22.50	26	2.85
(d)	Rotavater Rs. 35,000	1049	367.15	405	128.10
(e)	Self propelled paddy transplanter Rs. 75,000	150	112.50	14	1.50
(f)	Pump sets Rs. 10,000/-	1500	150.00	506	33.52
(g)	Cono-weeder Rs. 600/-	15000	90.00	22897	124.72
(h)	Manual Sprayers Rs. 600/-	20000	120.00	8544	18.02
(i)	Power knap sack sprayer Rs. 3,000	2000	60.00	666	48.56
(j)	Power weeder Rs. 15,000	802	120.30	0	0.00
(k)	Paddy thresher Rs. 40,000	800	320.00	285	75.00
(l)	Multi crop thresher Rs. 40,000	800	320.00	93	24.70
(m)	Laser land leveler (for a group of 10 farmers) Rs. 1,50,000	0	0.00	0	0.00

S. No.	Component	Target		Achievement	
		Phy.	Fin.	Phy.	Fin.
6.1	Any other Agriculture Implements useful for C.G. region				
(i)	Power tiller (above 8 BHP) for General Farmers (40% of cost limited to Rs.60,000/-)	320	192.00	67	27.61
(ii)	Power tiller (above 8 BHP) for SC/ST Farmers (50% of cost limited to Rs.75,000/-)	130	97.50	91	54.70
(iii)	Self Propelled reaper for General Farmers (40% of cost limited to Rs.50,000/-)	246	123.00	47	15.00
(iv)	Self Propelled reaper for SC/ST Farmers (50% of cost limited to Rs.63,000/-)	75	47.25	99	54.38
(v)	MB Plough (Tractor above 35 BHP) for General Farmers (Rs.35,000/-)	500	175.00	142	18.32
(vi)	MB Plough (Tractor above 35 BHP) for SC/ST Farmers (Rs.44,000/-)	300	132.00	121	16.76
(vii)	Leveler Blade (Tractor above 35 BHP) for General Farmers (Rs.35,000/-)	100	35.00	132	11.66
(viii)	Leveler Blade (Tractor above 35 BHP) for SC/ST Farmers (Rs.44,000/-)	45	19.80	55	5.56
(ix)	Power weeders (engine operated above 2 BHP) tractor below 20 BHP for General Farmers (Rs.12,000/-)	25	3.00	0	0.00
(x)	Power weeders (engine operated above 2 BHP) tractor below 20 BHP for SC/ST Farmers (Rs.15,000/-)	10	1.50	2	0.00
	Total any other implements	1751	826.05	756	203.99
	Sub Total (Asset building)	46102	3110.00	34747	714.96
7	Site Specific				
(a)	Construction of Checkdams on Govt. land 100% Max. Rs. 15 lakh	95	1405.00	25	105.20
(b)	Construction of Minor Irrigation Tanks on Govt. land 100% Max. Rs. 30 lakh	5	150.00	0	0.00
	Sub Total (Site Specific)	100	1555.00	25	105.20
8	Post-Harvest and Marketing Support				
(a)	Construction of Godown (500MT) on Community Basis	23	635.95		
(b)	Construction plat form for stacking of paddy (10.80M X 7.20M) on Community Basis	105	141.75		
	Total	128	777.70		
9	Cropping System based training (04 sessions) Rs. 14,000 per training (@ Rs. 3,500 per session)	766	107.24	385	32.76
	Grand Total		15501.93		2889.31

Input Cafeteria / Intervention & Cost Norms (2016-17) Cluster Demonstration on Rice

(Rs. per ha.)

Activity/ Particular	Direct seeded rice	Line Transplanting	SRI	Stress tolerant varieties	Hybrid Rice
Seed (per ha.)	1000	700	300	700	4000
Sowing (per ha.)	380	980	1380	980	0
Seed Treating Drum (1 No. each 5 ha.)	420	420	420	420	0
Pigeonpea Plantation on Rice Bund (2.5 kg/ha.)	397	397	397	397	0
Zinc sulphate 25 kg/ ha. or any other micro nutrient as per recommendation by SAU/KVK green manure seed / bio-fertilizer	1800	1500	1500	1500	0
Weedicide (1 pre and 1 post emergence)	1200	1200	1200	1200	1200
IPM (PP chemicals/ Bio Pesticides)	1200	1200	1200	1200	1200
Ambika Paddy Weeder (1 No. each per ha.)	835	835	835	835	835
Demonstration Board, Training Materials, farmers training, field day, POL, vehicle hiring / Visit of Scientist/State Officers and other contingencies.	268	268	268	268	265
Total	7500	7500	7500	7500	7500

Note : Marginal saving of any, from an item can be utilized in other item as per genuine need restricted to the limit of 10%.