

DIRECTORATE OF AGRICULTURE AND FOOD PRODUCTION, ODISHA



# **ODISHA MILLETS MISSION** *Taking millets to millions*





Finger Millet (Mandia)



Foxtail Millet (Kangu)



Little Millet (Suan)



Sorghum (Jonha/Jowar/Gangai)



Kodo Millet (Kodo)



Pearl Millet (Bajra)



Barnyard Millet (Jhari/Sawa/Bilo Suan)



Proso Millet (Cheena)



#### DIRECTORATE OF AGRICULTURE AND FOOD PRODUCTION, ODISHA

# **ODISHA MILLETS MISSION** *Taking millets to millions*

**OCTOBER 2019** 

#### SUPERVISION AND GUIDANCE

### Dr. Saurabh Garg, IAS

Principal Secretary Department of Agriculture and Farmers' Empowerment Government of Odisha

#### Dr. M Muthukumar, IAS

Director, Agriculture and Food Production, Odisha

#### **COMPILATION AND EDITORIAL TEAM**

#### **Kashinath Khuntia**

Joint Director of Agriculture, Millets

#### NCDS and WASSAN team

State Secretariat, Odisha Millets Mission



Shri Naveen Patnaik Chief Minister, Odisha



The "Special Programme for Promotion of Millets in Tribal Areas" being implemented in spirit as the "Odisha Millets Mission" aims at improving nutrition at the household level through revival of millets in farms and on plates. By making investments on improving productivity, processing and a price guarantee for millet crops, millets are being mainstreamed in Odisha. Promotion of millets is also an integral part of the Agriculture Policy of Odisha which aims at providing an income support to farmers.

The Government of Odisha is committed to make millet grains and products available at affordable rates to the common man with the support of the enterprising spirit of our Women's Self Help Groups, wherever necessary.

I hope that Odisha's endeavor will inspire the national policy for reviving millet production in the country.

r-1\_\_\_\_.

(Naveen Patnaik)



**Dr. Arun Kumar Sahoo** Minister of Agriculture & Farmers' Empowerment, Fisheries & Animal Resources Development



Agriculture is considered as the lifeline of Odisha's economy as majority of the population depends on agriculture for their livelihood. Increase in agricultural production and farm productivity are essential for providing food security to the vast majority of the population and enhancing income level of the farmers. Owing to the focus of the Government of Odisha on empowering farmers, the Agriculture sector grew at 8.3 percent in 2018-19. Odisha is in the process of launching a new agriculture policy which aims to increase farmers' income from agriculture and allied sectors.

Special Programme for Promotion of Millets in Tribal Areas, Odisha Millets Mission was launched by Government of Odisha in 2017-18 in 30 blocks of 7 districts. It was extended to 72 blocks in 2018-19 covering 14 districts. It comprehensively supports farmers for production, processing, marketing and consumption of millets with the help of local Civil Society Organizations. To provide price guarantee to our tribal farmers, we have also launched the public procurement of Ragi from the Kharif Marketing Season of 2018-19. First trials of distribution of Ragi under Public Distribution System have been completed and our efforts are on to include millets in ICDS and Mid-Day Meals as well.

I hope that we will be able to bolster the millet economy in the state through our efforts in the mission.

(Dr. Arun Kumar Sahoo)



#### Shri Pradipta Kumar Mohapatra, IAS Agriculture Production Commissioner Government of Odisha



Millets are very important crops for Odisha. Both acreage and yield of millets has declined in the past two decades. The decline in millets has been constant despite the overall progress made by Odisha in the agriculture sector over the last few years. These are the crops primarily grown by the tribal communities in the state and hence it is imperative that in order to make the growth in agriculture inclusive, promotion of millets is done consistently. The Odisha Millets Mission has given the necessary boost to millet farming in the tribal areas of the state.

The consumption focus of the programme has brought together other departments of the government like Women and Child Development, Food Supplies and Consumer Welfare, Cooperation, SC/ST, Minorities and Backward Classes Welfare to work with the Agriculture department. This has set an example for policy development that relies on the principle of cooperation and convergence.

I appreciate the efforts of the Department of Agriculture and Farmers' Empowerment for taking the millet mission to such commendable heights. I wish the mission success and good fortune.

(Pradipta Kumar Mohapatra)



**Dr. Saurabh Garg, IAS** Principal Secretary, Department of Agriculture & Farmers' Empowerment, Government of Odisha



The Odisha Millets Mission has achieved many firsts in the last three years. It is the first programme of the department with the central focus being on nutrition by increasing household consumption of millets. It became the first programme to integrate production, processing, consumption and marketing in its programme design; moving away from the approach of production orientation of many agriculture programmes. Over fifty thousand farmers have taken up improved agronomic practices in the last three years. The procurement of Ragi has been a historic initiative of the government in providing price support and an assured market to millet farmers. The first pilot on distribution of Ragi under the Public Distribution System has been completed successfully as well. The programme has won accolades for its innovative implementation design.

As the programme is built on the spirit of innovation, there are many more milestones to be crossed. Inclusion of millets in ICDS and Mid-Day Meals will be piloted at scale in the upcoming months. We have partnered with the ICAR-Indian Institute of Millets Research (IIMR) for further improving our technical capacities and the CSIR-Central Food Technological Research Institute (CFTRI) for standardizing millet recipes to be included in nutrition programmes.

This document chronicles the inception of the Odisha Millets Mission and its journey in the last few years. The generous support for the programme at the highest level and my colleagues in the departments of Finance, SC/ST, Backward Classes and Minorities Welfare, School and Mass Education, Women and Child Development, Cooperation, Food Supplies and Consumer Welfare and Sports and Youth Services has been critical for the success of this initiative.

I commend the Directorate of Agriculture and Food Production and all the functionaries of the department for taking the mission to such heights, the Community Organizations and Civil Society Organizations for all the ground work to make this happen and the State Secretariat (NCDS and WASSAN) for tirelessly supporting the mission at the state and district level.

(Dr. Saurabh Garg)





#### **Dr. M Muthukumar, IAS** Director, Agriculture and Food Production Krushi Bhawan, Bhubaneswar

The Odisha Millets Mission is an initiative of the Department of Agriculture and Farmers' Empowerment, Government of Odisha for supporting the forgotten and neglected crops grown by tribal communities in the rainfed areas of Odisha. The programme envisages easing constraints of millet growers by incentivizing investments into soil health, quality seed, improved agronomic practices, drudgery reduction, mechanization and providing price guarantee through procurement by state agencies and exploration of remunerative markets. The programme also aims to address the issues of food and nutrition security through the promotion of 'native' nutri-cereal crops that are integral part of the culture of the tribal communities.

The programme was budgeted for in the State Agriculture Budget of 2017-18 and was grounded in the Kharif of 2017-18. While the focus in the first year was on demonstrating improved agronomic practices in millets for higher productivity, the second year belonged to scaling up the programme and the historic step of Ragi procurement by the Government of Odisha. Identification and multiplication of local landraces preferred by farmers through Participatory Varietal Trials has also given scope for revitalization of biodiversity in millets.

Millet crops have become the point of conversation among farmers, practitioners, scientists and extension workers. The knowledge on improved agronomic practices in millets has not just remained within the research stations and personnel working specifically on millets, but has reached almost every extension worker and officer placed in the millet growing areas. This, in my view, will take us far in achieving the objective of productivity enhancement of millets. We have also tried to ease the labour constraints by providing equipment on hiring basis to farmers and supplied good quality seeds of millets, thus removing these two major roadblocks for uptake of millets.

Through successful interventions on multiple fronts, the programme won accolades from the Government of India which recommended other states to follow the Odisha model. While millets reached the plates of the elite in the capital city's Mayfair Hotel during the visit of Chairman, 15th Finance Commission, the common person tasted millets through our rural food festivals conducted by our Civil Society partners and urban street side stalls set-up by our student interns.

I sincerely thank Principal Secretary, Agriculture & Farmers Empowerment and the members of the High Power Committee on Millets for their continuous and generous support. I also thank District, Block and Panchayat level staff of the department and our Civil Society and Community partners for their perseverance and hard work to take the programme to the last mile. Finally, I thank the State Programme Secretariat (NCDS and WASSAN) for standing shoulder to shoulder with the department.

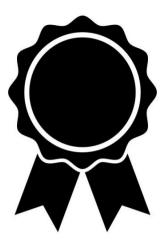
I assure you that the churning of ideas for revival of millets in farms and on plates shall continue. I hope that this booklet will inspire all co-travelers in the journey to follow this dream.

y. lella

(M Muthukumar)

# **CONTENTS**

- INTRODUCTION
- SPECIAL PROGRAMME FOR PROMOTION OF MILLETS IN TRIBAL AREAS
- PROGRAMME IMPLEMENTATION
- FUND FLOW DESIGN
- FINANCIAL ALLOCATIONS
- PROMOTION OF IMPROVED AGRONOMIC PRACTICES
- CROP CUTTING EXERCISES
- PARTICIPATORY VARIETAL TRIALS
- CAPACITY BUILDING OF FACILITATING AGENCIES AND COMMUNITY ORGANIZATIONS
- PROCUREMENT OF RAGI AT MINIMUM SUPPORT PRICE
- DISTRIBUTION OF RAGI UNDER THE PUBLIC DISTRIBUTION SYSTEM
- CUSTOM HIRING CENTRES
- PROMOTING HOUSEHOLD CONSUMPTION OF MILLETS
- PILOTING INCLUSION OF MILLETS IN ICDS
- PARTNERSHIP WITH CFTRI IN KEONJHAR
- POPULARIZING MILLETS IN URBAN AREAS
- MILLETS AT INTERNATIONAL HOCKEY WORLD CUP
- MISSION SHAKTI SUPPORTED TRISHAKTI SHG FEDERATION TAKES MILLETS TO PLACES
- RESEARCH
- POWER OF PARTNERSHIPS IN ODISHA MILLETS MISSION
- ENGAGING WITH DECISION MAKERS ON MILLETS
- FUTURE PLANS
- PROGRAMME PARTNERS



# RECOGNITION AND IMPACT

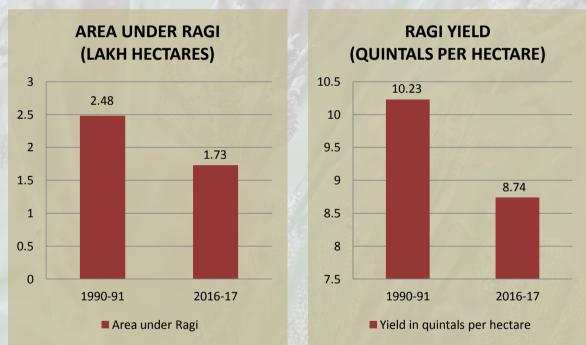
The Odisha Millets Mission has received recognition from many quarters.

- The Government of India has asked all states to adopt Odisha Millets Mission model for promotion of millets, pulses and oilseeds.
- The Niti Aayog, Government of India has chosen Odisha and Karnataka as two progressive models for promotion of millets and will facilitate the learnings from these states for other states.
- The State Planning Commission of Chhattisgarh has asked the Government of Chhattisgarh to start a millet mission on the lines of "Odisha Millets Mission".
- The Governor of Maharashtra has asked Government of Maharashtra to explore initiating a project on millets considering the Odisha Millets Mission.
- The Government of India has set up a task force to understand the framework of the Odisha Millets Mission and to revise the National sub mission on millets based on the learnings of the OMM.
- Cambridge University partnered with Odisha Millets Mission to explore possibility of design of OMM as alternative to Green Revolution framework.
- UN-IFAD and UN-FAO have supported the framework of Odisha Millets Mission as suitable for taking up agro-ecological initiatives.

### **INTRODUCTION**

Millets are part of the traditional staple diet and crop systems in Odisha supplementing nutritional needs of the communities, especially in the rainfed regions. The conscious pursuit of an agricultural policy since the 1960s to meet national food security with paddy and wheat has led to a decline in millet production and consumption. Millets were not the focus crops in food security framework of the green revolution.

"Area under Ragi has declined from 2.48 Lakh Hectares in 1990 - 91 to 1.83 Lakh Hectares in 2016-17. Yield per hectare in 1990-91 was 10.23 Quintals per hectare, yield reduced to 8.96 quintals per hectare in 2016-17. The area under Ragi crop is further showing a declining trend due to diversion of traditionally Ragi growing areas to cotton, maize vegetables & pulses."



(Source: Status of Agriculture Report, Dept of Agriculture & Farmers' Empowerment, Odisha)

Millets have been providing the necessary diet-diversity and nutritional security for generations in the drought-prone uplands in districts inhabited by tribal communities. But, there has been little support to incentivize the production, processing, marketing or consumption of millets. Despite the widespread recognition of the necessity that millets should be procured by the state to encourage its uptake by farmers, millets as a group of crops haven't received the necessary push including financial support.

#### **Multi-Stakeholder Consultation: The Game Changer**



It is in this context of decline of millets that the Planning & Convergence Department, Government of Odisha and Nabakrushna Chaudhury centre for Development Studies (NCDS) in partnership with Revitalizing Rainfed Agriculture (RRA) Network and Alliance for Sustainable and Holistic Agriculture (ASHA) Network organized a multi stakeholder consultation to evolve a strategy for revival of millets in Odisha.

Consultation on Revival of Millets, NCDS, Bhubaneswar chaired by Development Commissioner, Government of Odisha

Shri R Balakrishnan, IAS, the Development Commissioner cum Additional Chief Secretary, Planning & Convergence Department, Government of Odisha chaired the consultation.

#### **Turning the Consultation into Programme for revival of Millets**

Turning the discussion and insights into programme was challenging for two major reasons:

- The kind of project investment required for the comprehensive revival of millets was not provisioned in any central sector scheme such as NFSM. Most of the experiences were outside the ambit of department.
- 2. Revival of millets required to rethink beyond the green revolution framework. There were no experiences in last 50 years for working on this scale on millets in comprehensive manner.

This was followed by a series of interactions between Watershed Support Services and Activities Network (WASSAN), Nabakrushna Choudhury Centre for Development Studies (NCDS) and Department of Agriculture and Farmers Empowerment, Government of Odisha which led to the guidelines for the "Special Programme for Promotion of Millets in Tribal Areas to be piloted in 30 blocks across 7 districts.

Thus, it was declared by the Honourable Minister of Finance, Shri Pradip Kumar Amat in the budget speech of 2016-2017, that a "Special Programme on Promotion of Millets" is being launched.

"The minor millets once formed the staple diet of tribal heartland and our countryside. Slowly these millets have gone out of our routine menu. Oats which is mostly imported is strangely found even in our remote grocery shops. Minor millets represent our ancient roots and deserve our focused attention and patronage. We propose to bring the minor millets back on track. It is just a beginning. The minor millets will receive a major push. A "Special Programme for Millet in Tribal Areas" is to be implemented in order to enhance production and productivity of millets in tribal areas."

-Page 9, Point 28, Odisha Budget Speech 2016-17

# SPECIAL PROGRAMME FOR PROMOTION OF MILLETS IN TRIBAL AREAS (ODISHA MILLETS MISSION)

#### MAJOR OBJECTIVES OF THE PROGRAMME

Promoting household level Consumption

Setting up decentralized Processing facilities

Improving **Productivity** of Millet Crops

CURRENT SCALE OF THE PROGRAMME

Promoting Farmer Collectives and Marketing

Inclusion of millets in State Nutrition
Programmes and the Public Distribution System

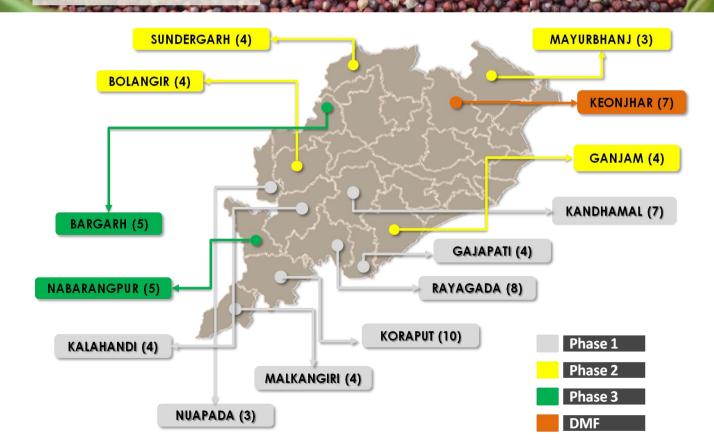
#### **COVERAGE OVER 5 YEARS**

□With a cluster approach, the programme aims to cover at least 1000 Ha in a block over a period of 5 years. The programme will reach 1000 households directly and another 1000 households through production related activities in the block.

□ It is estimated that consumption in another 2000 households will be increased in a block through establishment of processing machinery, campaigns and promotion of millet-based food enterprises in the project area.

□In this way, the programme aims to increase millet consumption in 4000 households in a block.

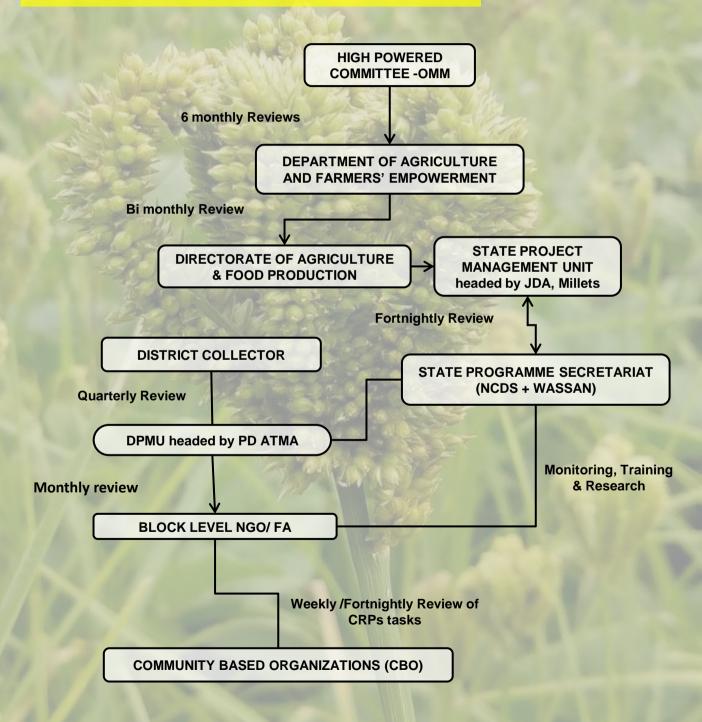
With a total coverage of 72 blocks in 14 districts, the programme aims to cover 2.8 lakh households in the State.



## PROGRAMME IMPLEMENTATION

Program Implementation happens at three levels:

#### STATE LEVEL | DISTRICT LEVEL | BLOCK LEVEL





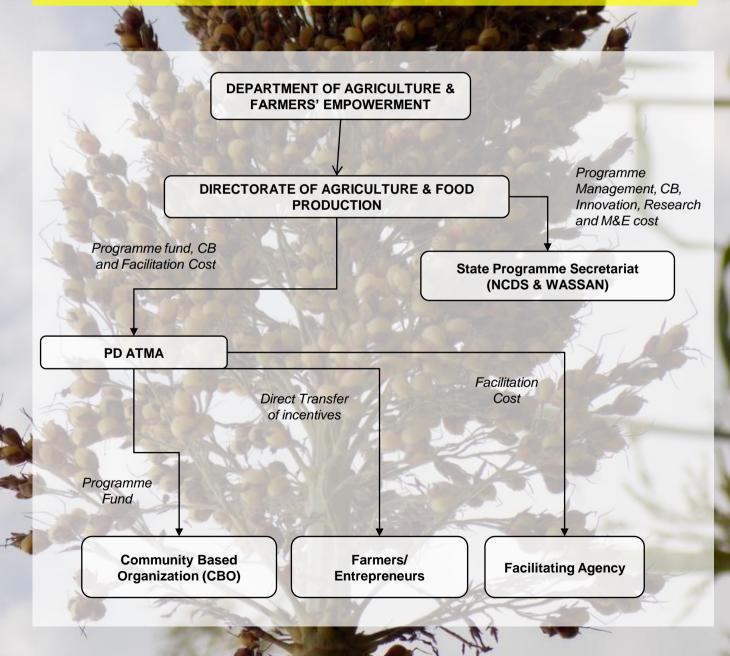
## FUND FLOW DESIGN

#### **Programme funds**

These are funds meant for implementation of the programme received / spent by a Community Based Organization.

#### **Facilitation Funds**

These are meant for programme facilitation and are received / spent by the Facilitating Agency/ Secretariat.



# FINANCIAL ALLOCATION

#### Programme Budgets for five years under Odisha Millets Mission

Total Funds allocated	536.98 crores
Funds for extension to 7 blocks of Keonjhar under District Mineral Foundation of Keonjhar	24.08 crores
Funds for Procurement of Ragi and inclusion in PDS and ICDS (three years)	313.06 crores
Funds for Programme Implementation in 65 blocks	199.83 crores

#### Total Budget allocated for Procurement and Distribution of Ragi

#	Components	2018-19 in Rs Cr	2019-20 in Rs Cr	2020-21 in Rs Cr	Total in Rs Cr
1	TDCCOL for Procurement (State Procurement Agency)	75.10	99.87	125.64	300.62
2	ICDS (For Ragi Laddus to pre-school children)	3.82	3.82	3.82	11.45
3	PDS (For Ration Card holders)	0.33	0.33	0.33	0.99
	Total in Rs Cr	79.25	104.02	129.79	313.06

#### Programme Budgets per block for five years under Odisha Millets Mission

#	Components	Amount (Rs. In lakhs)
1	improving Household consumption	7.85
2	Processing and value addition of millets	34.3
3	Improving productivity	139.59
3.1	Establishing Community Managed Seed System	26.96
3.2	Improved agronomic practices	76.28
3.3	Protective Irrigation	35
4	Custom Hiring Centers	13
5	Block level community resource persons (CRP)	17.8
6	Promotion of millets in urban and small towns	12.5
7	Promotion of Community Based Organizations	14
8	Facilitation costs for the NGOs	22.11
	Total Budget per Block in Lakhs	261.15

The Odisha Millets Mission has been promoting improved agronomic practices for improvement in quality and diversity of millet seeds as well as higher productivity and incomes from millets. Thus, a monetary incentive is transferred to farmers' accounts on the completion of the following practices:

- a. Application of adequate quantity of farm yard manure, compost, etc. for soil health
- b. Seed treatment as prevention from diseases and pests and to enhance purity and yield
- c. Improved agronomic practices like System of Millet Intensification (SMI), Line Transplanting (LT) and Line Sowing (LS)
- d. Use of organic preparations for disease and pest management

These practices are promoted by provision of hand-holding support by Community Resource Persons (CRPs) at the village level. Local NGOs acting as facilitating agencies monitor the work. On the successful completion of all the activities, an amount of Rs. 5000 per ha for SMI and Rs. 2500 per ha for LT and LS is provided to farmers via the Direct Benefit Transfer (DBT) route. Farmers are eligible to receive incentives for three years.

Sr.	Unit	Unit Type	Nos.	Rate	134	Total in Rs			
No	Unit	onit rype	103.	Nate	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year		
1	Arrangement of Seed	kgs	2.0	50	100	100	100		
2	Bed Preparation	person days	2	200	400	400	200		
3	Organic Manuring	person days	1	200	200	0	0		
4	Watering	person days	1.5	200	300	0	0		
5	Seed treatment with Beejamrutha	cost			100	100	100		
6	Incentive for Transplantation	person days	7.5	200	1500	1500	1500		
7	Weeding @3 times	person days	5	200	1000	700	0		
8	Harvesting	person days	2.5	200	500	0	0		
9	Jeevamrut Preparation @3times				900	200	100		
10	Total per Hectare	Sal 18	ACN!	12	5000	3000	1500		

Cost Structure for Reduced Farmer Incentive for Line Transplanting/Line Sowing (costs per ha) in Rs.

#	Unit	Unit Type	Nos.	Rate	Total in Rs			
-	Cint	om Type	1405.	Nate	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	
1	Arrangement of Seed	kgs	5.0	30	150	150	150	
2	Bed Preparation	person days	1	250	250	250	150	
3	Watering	person days			0	0	0	
4	Seed treatment with Beejamrutha	cost			100	100	100	
5	Incentive for Transplantation/Sowing	person days	5	200	1000	500	300	
6	Weeding @3 times	person days	4	200	800	300	100	
7	Jeevamrut Preparation @3times				200	200	200	
8	Total per Hectare				2500	1500	100	

	Achievement on Improved Agronomic Practices for 2017-18														
#	District	No of Blocks	Improved Ag Kharif	actices in Ha Total	No of Farmers benefited										
1	Koraput	7	1029	31.5	1,060.5	2575									
2	Malkangiri	4	615	32.0	647.0	1563									
3	Gajapati	4	447	183.6	630.6	1769									
4	Rayagada	4	300	51.4	351.4	797									
5	Nuapada	3	239	25.6	264.6	266									
6	Kalahandi	4	202	13.8	215.8	477									
7	Kandhamal	4	145	24.8	163.6	583									
	Total	30	2977	362.7	3,333.5	8030									

Achievement on Improved Agronomic Practices in 2018-19

			Kharif	and shared	Ra	abi	Total for	2018-19
SL	District	No of Blocks	No of Farmers	Area (ha)	No of Farmers	Area (ha)	No of farmers	Area (ha)
1	Bolangir	4	1179	542.5	21	4.4	1200	546.9
2	Gajapati	4	3335	1405.6	329	91.4	3664	1497.0
3	Ganjam	4	e - X		41	12.6	41	12.6
4	Kalahandi	4	2493	1095.3	5	1.2	2498	1096.5
5	Kandhamal	7	4244	1725.6	259	159.4	4503	1885.0
6	Koraput	10	6407	2659.0	145	50.8	6552	2709.8
7	Malkangiri	4	2810	1275.5	0	0.0	2810	1275.5
8	Mayurbhanj	3	416	221.2	10	3.8	426	225.0
9	Nuapada	3	1148	448.4	15	4.2	1163	452.6
10	Rayagada	8	4439	2305.4	355	173.6	4794	2479.1
11	Sundergarh	4	1405	599.9	0	0.0	1405	599.9
3.47%	Total	55	27876	12278.4	1180	501.4	29056	12779.8

Crop-wise Achievement on Improved Agronomic Practices for Kharif 2018-19

#	District	Blocks	No of Farmer s	Ragi	Little Millet	Foxtai I Millet	Sorghu m	Kodo Millet	Pearl Millet	Barnyar d Millet	Total
1	Bolangir	4	1179	338.4	202.1	-	-	2.0	-	-	542.5
2	Gajapati	4	3335	1,015.8	227.1	106.0	56.7	-	-	-	1,405.6
3	Kalahandi	4	2493	532.7	543.6	7.0	7.0	-	5.0	-	1,095.3
4	Kandhamal	7	4244	1,487.9	131.1	23.6	56.4	-	16.6	10.0	1,725.6
5	Koraput	10	6407	2,408.0	231.2	19.8	-	-	-	-	2,659.0
6	Malkangiri	4	2810	1,261.5	12.0	2.0	-	-	-	-	1,275.5
7	Mayurbhanj	3	416	221.2	-	-	-	-	-	-	221.2
8	Nuapada	3	1148	161.4	282.8	-	-	4.2	-	-	448.4
9	Rayagada	8	4439	1,846.0	61.4	114.4	283.6	-	-	-	2,305.4
10	Sundargarh	4	1405	599.9	-	-	-	-	-	-	599.9
	Total		27876	9,872.8	1,691.3	272.8	403.7	6.2	21.6	10.0	12,278.4

Crop-wise Achievement on Improved Agronomic Practices for Kharif 2019-20 (provisional)

#	District	No of Blocks	No. of Farmers	Ragi	Little Millet	Foxtai Millet	l Sorghum	Kodo millet	Barnyaro Millet	<sup>1</sup> Bajra	Inter- croppin g	Total
1	Baragarh	5	1245	571.2	43.9	19.9	-	-	-	-	-	635.0
2	Bolangir	4	2433	1473	84	4.2	-	-	1.2	-	31.2	1593.6
3	Gajapati	4	5454	1592.78	150.2	56.8	18		0.2	-	0.8	1818.8
4	Ganjam	4	1822	570.61	-	-	-	-	-	-	0.2	570.8
5	Kalahandi	5	2904	698.8	418.7	32	21.2	3.4	0.8	0.4	90.4	1265.7
6	Kandhamal	7	7415	2239.5	205.6	92	62.5		10	44	154	2807.6
7	Keonjhar	4	732	88.82	-	-	-	-	-	-	-	88.8
8	Koraput	10	10312	4798.14	206.9	35	0	-	0.2	-	44.2	5084.4
9	Malkangiri	4	4231	2019.8	75.2	0	0	-	0	-	169.8	2264.8
10	Mayurbhanj	3	2100	575	95.2	0	46.4	-	0	-	9	725.6
11	Nabarangpur	5	3510	910.7	-	-	-	-	-	-	-	910.7
12	Nuapada	3	2815	525.7	554	14	0	-	0	-	20.5	1114.2
13	Rayagada	8	6454	2828.93	11.4	184	211	-	6	0.2	64.7	3306.3
14	Sundargarh	4	1549	1021.2	31	10	0	-	-	-	40.8	1103.0
	Total	70	52976	19914.2	1876	447.9	359.15	3.4	18.4	44.6	625.6	23289.3



Preparation of Handi Khat (Organic Manure) | 2. Seed Beds prepared in standard size
 Furrow Preparation before transplanting | 4. Marking using wooden marker for SMI planting
 Transplanting under SMI method using rope marker | 6. Weeding using cycle weeder

### CROP CUTTING EXPERIMENTS IN MILLETS

Organized by partner NGOs
Conducted with farmers
In presence of government officials
Dry grain weight measured on 25
sq.m plots

The show and the second

	SUMMARY OF FINDINGS IN 2017-18													
						Yield in	Quint	al per h	a					
			3/12		SMI			LT						
#	District	cks	cces		est	est		est	est	Avg				
	District	Blocks	ö	Ŷ	Lowest	Highest	Ŷ	Lowest	Highest	Yield				
					-146	T		L.	T					
1	Gajapati	4	70	22	10.4	34.0	45	5.0	17.2	13.5				
2	Kalahandi	4	11	5	9.00	12.4				9.8				
3	Kandhamal	4	14	8	9.6	16.0	6	6.7	14.2	11.4				
4	Koraput	7	144	141	16.2	32.8	3	8.6	13.2	24.1				
5	Malkangiri	10	94	35	10.7	33.8	55	9.2	31.9	16.0				
6	Nuapada	3	8	8	11.6	19.5				15.4				
7	Rayagada	3	14	13	16.2	34.6	1	12.8	12.8	21.0				
	Total	35	355	232			110							
		Carlo and		THE REAL	PARE D. COMP.	1960 - 1 (GR)	1000		100					

Average yield for improved agronomic practices for all 355 CCEs 18.63

23	SUMMARY OF FINDINGS IN 2018-19 Yield in Quintal per hac.														
		S	Es		SMI		Tie	LT	untarp	er nac.	Other				
#	District	Blocks	No of CCEs	No of CCEs	Lowest Yield	Highest Yield	No of CCEs	Lowest Yield	Highest Yield	No of CCEs Lowest Yield	Highest Yield	Avg per ha for the dist			
1	Bolangir	4	52	25	6	20.2	10	9	17.6	17	3.6	9.5	11.52		
2	Gajapati	4	40	12	11.5	30	20	6	25	8	6.4	9.8	15.49		
3	Kalahandi	4	46	31	6.6	20.4	15	6.8	15.1				12.43		
4	Kandhamal	7	32	15	5.3	19.9	12	6	17.2	5	4.2	8	10.3		
5	Koraput	10	367	232	3.7	36.8	122	2.5	36.4	13	4.9	25.2	16.75		
6	Malkangiri	3	119	35	6.8	22.8	83	5.4	22.7	1	6.3	6.3	13.14		
7	Mayurbhanj	3	32	18	2	6.4	11	1.8	5.1	3	2.6	3	8.58		
8	Nuapada	3	12	6	8	17.6	3	4	15.6	3	2	2.8	8.53		
9	Rayagada	8	49	41	5	30.3	8	8	15.4				15.12		
10	Sundargarh	4	135	47	1.8	22.4	72	1.5	22	16	2	15.4	8.15		
		50	884	462			356			66					

Average Yield for all CCEs combined

ଅଦ୍ର ଗସ୍ୟ ଉତ୍ପାଦନ ଓ ଅମଳ ସମ୍ପର୍କିତ ଭୁଦ୍ର ଗସ୍ୟ ଉତ୍ପାଦନ ଓ ଅମଳ ସମ୍ପର୍କିତ ଭୁଦ୍ଧି ଷେତ୍ର ଦିବସ ପାଳନ

a.40 6.

Crop Cutting Experiments 2018-19					
System of Millet Intensification					
No of observations	461				
Average yield per ha	15.15				

#### **Crop Cutting Experiments 2018-19**

#### Line Transplanting

No of observations	337
Average yield per ha	12.58

# Crop Cutting Experiments 2018-19

#### Line Sowing

No of observations	82
Average yield per ha	9.75

#### **Crop Cutting Experiments 2018-19**

#### Little Millet (All Practices)

No of observations	41
61.51	

### Average yield per ha 8.58

Crop Cutting Experiments 2018-19 Ragi (All practices)

No of observations	842
Average yield per ha	13.88

## CROP CUTTING EXPERIMENTS IN MILLETS

#### PARTICIPATORY VARIETAL TRIALS

- Conducted in 17 blocks in 2018-19 and in 45 blocks in 2019-20
- 10 local landraces from the region tried with 2 check (Govt released) varieties in each block
- Trials done through Randomized Bed Design (RBD)
- 3 replications of each variety taken up on 25 sqm (5m\*5m) plots
- DUS characterization of varieties for registration under PPVFRA
- Farmer Preference Analysis with mixed groups of men and women, old and young among farmers to finalize varieties for mass production

The Government of India has released more than 100 finger millet varieties suitable to different agro-climatic regions of the country. More than 30 finger millet varieties have also been released by the Odisha University of Agriculture and Technology (OUAT). All these released varieties have been grown and evaluated under controlled conditions with application of proper nutrients and water management. However, when they are grown on farmers fields, the varieties are not performing as expected . Farmers have their own traditional varieties which are best suited to their agro-ecological conditions. But there is a need to properly characterize and evaluate these varieties in comparison to Government recommended varieties through Participatory Varietal Selection (PVS) or Participatory Varietal Trial (PVT).

Under the Odisha Millets Mission, PVTs were conducted in the Kharif and Rabi of 2018-19 and are being conducted in the current Kharif (ie. 2019-20) as well. Characterization of varieties is also being done for registration under the Protection of Plant Varieties & Farmers' Rights Act (PPVFRA).

# **PARTICIPATORY VARIETAL TRIALS**

# 

#### Final selection of varieties from PVT exercise 2018- 19 for quality seed production in 2019-20 Kharif

District	Block	Organization	Best performed varieties
Rayagada	Gunupur	Asha	Sana mandia Bada mandia
Rayagada	Rayagada	OPDSC	Kurkuti mandia Telugu mandia
Kalahandi	Narla	SVA	Lalsaru mandia F - 28
Koraput	Semiliguda	Dhan foundation	Kerenga mandia GPU – 67
Koraput	Nandapur	Pragati	MR – i Bada mandia
Koraput	Kundra	MSSRF	Bati mandia Chilika mandia
Koraput	Boipariguda	CYSD	Kempu mandia Dhala bagada
Koraput	Boriguma	Harsha trust	Sri chaitanya GPU - 48
Koraput	Lamtaput	PRADAN	Budel mandia Mami mandia
Gajapati	Mohana	SACAL	Kantamara Chilika
Nuapada	Sinapalli	SVA	Pankakhai mandia Bada mandia
Nuapada	Komna - i	Ahinsha club	Bada mandia (haladia) Bhoda mandia

### **PARTICIPATORY VARIETAL TRIALS**





- L to R:
- 1. Nursery beds for PVTs
- 2. Seedlings ready
- 3. Transplanting going on
- 4. Panicle length being measured
- 5. Farmers marking the
- preferred varieties



### CAPACITY BUILDING OF FACILITATING AGENCIES & COMMUNITY ORGANIZATIONS

The programme envisages a trained cadre of workers in government, voluntary organizations, community leaders and farmers for promotion of millets. Hence, various capacity building programmes have been designed to train individuals and groups that include:

- i. Centralized training and capacity building by the Programme Secretariat
- ii. Residential and non-residential trainings at the state, district, block and village levels
- iii. Field demonstrations of improved agronomic practices
- iv. Exposure visits within and outside the state for farmers
- v. Field days

	Summary of CB programmes	2017-18			2018-19		
#	conducted by State Programme Secretariat	State	Dist	Total	State	Dist	Total
1	District Level meetings & events		101	101		101	101
2	State Level meetings & events	22	0	22	22	0	22
3	CB events on Agronomic Practices or Pest Management	3	10	13	3	10	13
4	CB events on Processing, Value addition, Inclusion of millets State Programmes	14	6	20	14	6	20
5	CB events on seed production, Participatory Varietal Trials	2	2	4	2	2	4
6	CB events on accounting, record keeping and management for NGOs and CBOs	2	5	7	2	5	7
7	CB events on Mobile Application, Web Application and Documentation		2	2		2	2
	Total no of events conducted	43	126	169	43	126	169

STATE LEVEL PROGRAMMES BY PROGRAMME SECRETARIAT

DISTRICT LEVEL PROGRAMMES BY PROGRAMME SECRETARIAT BLOCK LEVEL PROGRAMMES BY FACILITATING AGENCIES

### **CAPACITY BUILDING OF FACILITATING AGENCIES & COMMUNITY ORGANIZATIONS**





Two-day workshop on Promotion of Farmer Producer Organizations

IMAGE



Two-day workshop on Mobile Application of OMM

### CAPACITY BUILDING OF FACILITATING AGENCIES & COMMUNITY ORGANIZATIONS



Kharif Planning Workshop at IMAGE, Bhubaneswar



JDA, Millets during Orientation Programme for AAOs and Facilitating Agencies in Ganjam



Demonstration of Jeebamruta preparation during Orientation programme in Keonjhar for FAs



### PROCUREMENT OF RAGI AT MINIMUM SUPPORT PRICE

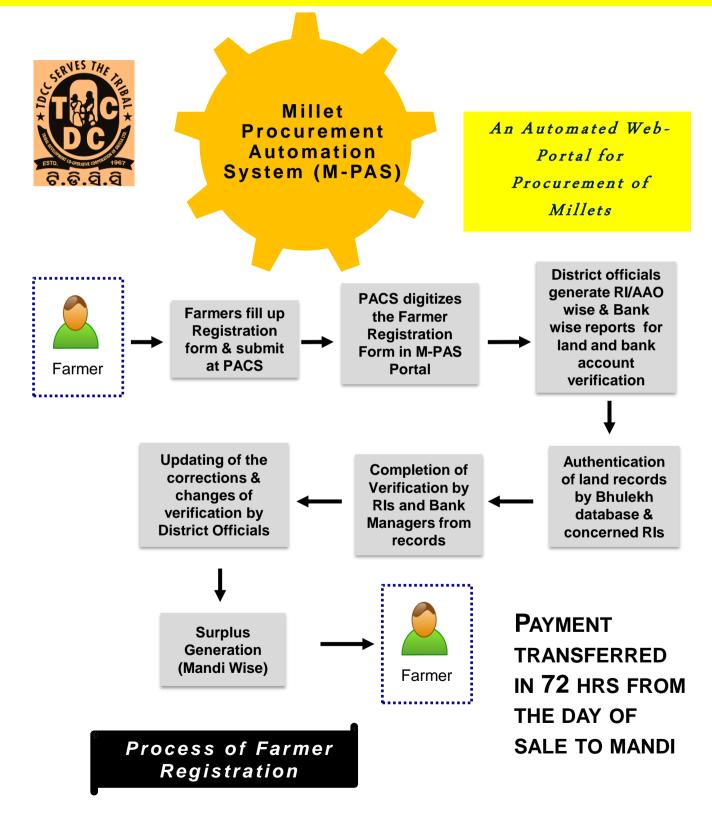


- Millet Procurement Automation System (MPAS) developed on the lines of Paddy procurement to ease farmer registration and operations
- Ragi procured at Minimum Support Price of Rs. 2897/quintal
- Over 25000 farmers registered for procurement of Ragi
- A total volume of 17985 quintals of Ragi procured in 2018-19

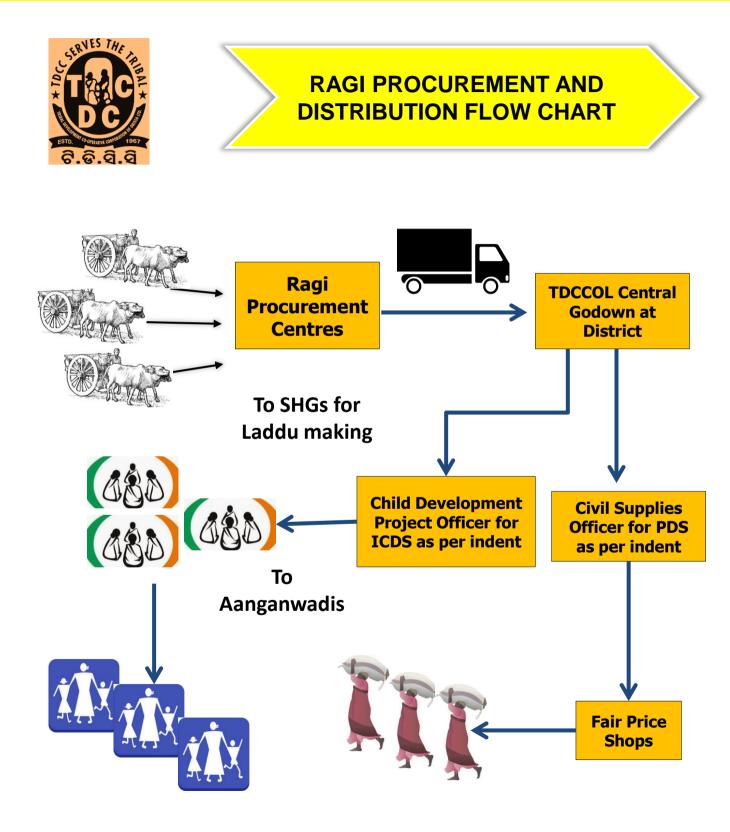




### PROCUREMENT OF RAGI AT MINIMUM SUPPORT PRICE



## PROCUREMENT OF RAGI AT MINIMUM SUPPORT PRICE



### **PROCUREMENT OF RAGI AT MINIMUM SUPPORT PRICE**



#### PROCUREMENT OF RAGI IN KHARIF MARKETING SEASON 2018-19

Name of the District	Number of Societies	Societies procured from	Quantity Procured	No. of Farmers sold Ragi	Total farmer registration	Place of Storage
Gajapati	4	4	671.77	847	3010	TDCCOL, R Udaygiri CG
Kalahandi	11	9	920.29	684	2435	CWC Junagarh
Kandhamal	12	10	1365.02	1169	3759	TDCCOL Balliguda, CG
Koraput	18	16	8904.69	1663	8256	TDCCOL Jeypore: 6155.53 qtl TDCCOL Sunabeda: 2749.16 qtl
Malkangiri	4	4	1793.54	794	3166	Korukonda RMC
Nuapada	23	11	247.25	305	2396	RMC Godown, Khariar Road
Rayagada	10	10	3589.78	814	2941	TDCCOL Godown, Raygada
Sundergarh	4	4	493.44	346	532	Badgaon Godown, AGR Dept
TOTAL	86	68	17985.78	6622	26495	

### DISTRIBUTION OF RAGI UNDER THE PUBLIC DISTRIBUTION SYSTEM



F

CMO Odisha 🤣 @CMO\_Odisha

**#Odisha**'s effort to improve nutritional consumption in tribal areas through **#MilletsMission** will get further boost with distribution of  $\Box$ 1 ragi through PDS systems. It will ensure nutritional security & boost farmers' income

> Odisha to provide 1 kg ragi at Rs 1 via PDS shops The Odisha government has decided to distribute one kg of ragi at Rs 1 as a pilot project through the public distribution ... & business-standard.com

10:00 AM · Jun 11, 2019 · Twitter for Android



Hon'ble MLA Mr.Salunga Pradhan distributing Ragi under PDS in Daringbadi, Kandhamal

Ragi distribution in Gajapati

#### **CUSTOM HIRING CENTRES**



Odisha Millets Mission is trying to build assets owned and managed by Community Based Organizations (CBOs) for millet cultivation. As part of this objective, Primary Processing Machines will be set up at GP, block and district level to reduce drudgery involved in processing of millets, specially Little Millet and Foxtail Millet.

To begin with, Custom Hiring Centres (CHCs) have been established in each block for making basic machinery for millet cultivation available on

hiring basis to farmers. In 2017-18, the first year of the programme, cycle weeders were placed at the CHCs. In subsequent years, metal and wooden markers for line transplanting and SMI, manual and battery-operated sprayers, pump-sets for protective irrigation, rose-cans and any other equipment required by the community is being placed with the CHCs. User charges are collected on these equipment for sustainability of these centres. PROMOTING HOUSEHOLD CONSUMPTION OF MILLETS

ver Go

#### **PROMOTING HOUSEHOLD CONSUMPTION OF MILLETS**

Generally agriculture programmes have yield or productivity as the central objective. The Odisha Millets Mission is a unique with household consumption as its central objective. Giving millets visibility and acceptance in public food culture is being actively promoted. The funded programme has components on campaigns household awareness for consumption of millets, organizing millet food festivals, establishing small eateries and inclusion of millets under ICDS and PDS.

consumption related events at the block and GP level, the Programme Secretariat has been tasked with doing so at the state level in Bhubaneswar and other major cities of the state. These events are receiving overwhelming response. People from the older generations are appreciating the encouragement of millets while younger people are learning about nutritious values of millets through these events.

5.3

41

While Facilitating Agencies are organizing

11.8

Wheat

Nutritive values per 100gm of grain					
Сгор	Protein (g)	Fiber (g)	Minerals (g)	lron (mg)	Calcium (mg)
Pearl millet <i>(Bajra)</i>	10.6	1.3	2.3	16.9	38
Finger millet <i>(Mandia)</i>	7.3	3.6	2.7	3.9	344
Foxtail millet <i>(Kangu)</i>	12.3	8.0	3.3	2.8	31
Proso millet (Cheena)	12.5	2.2	1.9	0.8	14
Kodo millet	8.3	9.0	2.6	0.5	27
Little millet <i>(Suan/Gurji)</i>	7.7	7.6	1.5	9.3	17
Rice	6.8	0.2	0.6	0.7	10

1.5

1.2



Odisha plans to spend □100 crore in its #MilletsMission to boost farmers' income & address nutritional deficiency. Millet based popular Odia recipes by #SHG members of @mission\_shakti will not only appeal to different tastes but also help in ensuring nutritional security.

# PROMOTING HOUSEHOLD CONSUMPTION OF MILLETS

Two-day residential training for women campaign teams on household consumption of millets at Ganjam Srijit Mishra @srijitmishra · Oct 22, 2018

ODISHA MILLETS MISSION

TWO DAYS RESIDENTIAL TRAINING

WITHIN DISTRICT FOR WOMEN GAMPAIGN TEAM

SACAL PROGREESS INDIA VIEWS

ecial Programme for Promotion of Millets in Tribal Areas

Training in preparation & presentation of Millet recipes for #SHG members of @mission\_shakti under Odisha Millets Mission @NCDS\_BBSR to take these tasty dishes to #HWC2018 #hockeyworldcup2018. @krushibibhag @WASSAN\_Hyd @sports\_odisha @WCDOdisha @PCDept\_Odisha

@balakrishnan\_28 Show this thread

All h

### **PROMOTING HOUSEHOLD CONSUMPTION OF MILLETS**



Two-day training with SHG members and Aanganwadi workers on household consumption of millets

ALC: Martin

ALE .

#### **PILOTING INCLUSION OF MILLETS IN ICDS**



ICDS PILOT LAUNCH IN GAJAPATI DISTRICT





One of the objectives of the programme is to explore inclusion of millets in state nutrition programmes such as ICDS, MDM and PDS. As part of the initiative, a pilot programme on inclusion of millets in ICDS was launched in 10 AWCs of Mohana Block in Gajapati district and Komana block of Nuapada District from December 2017 to March 2018.

Hot cooked millet recipes (Little millet Rice and Foxtail Millet Khichdi) were served to preschool children less than 6 years of age. A consultation was organized with WCD department officials and Odisha Millet Mission to decide number of AWCs and other logistics.

To launch the pilot, a millets food festival was organized with children, mothers, cooks and WCD department officials. It was also attended by the Collector, MP, MLA and RDC in Mohana block of Gajapati. Little Millet rice, Foxtail Millet Khichri, Ragi laddoo, Little Millet kheer was served to all participants and children. Meals served in both pilots received acceptance from all stakeholders including children, mothers and cooks of AWCs. Most of the cooks and children shared that recipe was good and they would continue consuming millets if government decides to provide millets in ICDS and MDM.

#### **PARTNERSHIP WITH CFTRI IN KEONJHAR**



Centre: DDA, Keonjhar and Dr. Usha Dharmaraj, CFTRI with the MoA copy L from centre: Secretary, NCDS, Scheme Officer, OMM, Keonjhar, Member, SPMU, OMM, DAFP R from centre: Representative, DMF Keonjhar, DSWO Keonjhar, Representative, WASSAN

To take the dialogue on inclusion of millets in ICDS further, an MoA has been signed in Keonjhar district between Odisha Millets Mission and CSIR-Central Food Technological Research Institute (CFTRI), Mysore.. Effectiveness and schematic design for inclusion of millet meals in ICDS and other supplementary nutrition programmes shall be developed through the pilots in Keonjhar with a focus on select age groups like children under 6 years of age and pregnant and lactating mothers.

- District Mineral Foundation, as the chief donor of the programme in Keonjhar is funding the pilots
- CSIR- CFTRI will conduct participatory recipe development to arrive at recipes suited to nutritional needs and cultural preferences
- Department of Agriculture is the nodal department for implementation with involvement and feedback of Department of Women and Child Development and Health
- Local SHGs and similar groups will prepare recipes and supply to Aanganwadis
- Pilots to begin in 5 villages. Will be scaled after assessing the first phase interventions

### **POPULARIZING MILLETS IN URBAN AREAS**

Due to lifestyle changes over the years, related disorders have engulfed the urban population of our country. Diabetes and heart disease are more common than ever before. The Odisha Millets Mission aims to increase consumption of millets in urban areas, thus taking urban people to a more healthy food culture while also creating demand for millets being produced by farmers in the state.

A summer internship was organized by the State Programme Secretariat (NCDS and WASSAN) with the support of the Department of Agriculture in this regard. Millet food stalls were set up and managed by student interns in 26 different locations in Bhubaneswar.

These stalls received very good response with widespread demands for government run eateries and millet grain stores, where good quality millet grains and products could be made available on affordable prices.

In addition to these stalls, recipe training events were conducted and food and exhibition stalls were set up during the International Hockey World Cup 2018, Krushi Odisha, Adivasi Mela, Damana Food Festival in 2018 and 2019.



These millet food stalls were set up at 26 different locations in Bhubaneswar by interns.



### **POPULARIZING MILLETS IN URBAN AREAS**



Director, Agriculture and Food Production, Odisha at millets street stall managed by interns



Recipe training event conducted at Bakul foundation, a vibrant cultural space for citizens in Bhubaneswar

Millets food stall at Adivasi Mela 2019, was put up for 15 days at Exhibition Ground, Bhubaneswar

### **POPULARIZING MILLETS IN URBAN AREAS**





Hon'ble Governor of Odisha at millets stall in Kandhamal

Collector and DM, Keonjhar at food festival



## MILLETS AT INTERNATIONAL HOCKEY WORLD CUP

As part of its objective to popularize millets in urban areas. the Odisha Millets Mission collaborated with the Trishakti Federation of SHGs promoted by Mission Shakti and a millets-based food stall called "Mandia Café" was put up at the Fan Village inside Kalinga Stadium during the International Hockey World Cup 2018. the members of the federation managed the café and interacted with visitors. The women had been trained and technically supported by State Programme Secretariat hosted by Nabakrishna Chowdhury centre for Development Studies (NCDS), Bhubaneswar.

Shakti

DISHA MI

Mandia Café

Packaged and bakery products like biscuits, laddoos, muffins and fresh hot-cooked recipes like salad, sandwiches, vada, biryani and kheer were served to audiences and other attendees. Encouraging response was received, especially by families who were looking for healthier options while not compromising on taste.

Through Mandia Café, we didn't just provide people with healthy and tasty food but also communicated the nutritional benefits of millets. Having experienced millet recipes, people didn't just eat at the café but also took back biscuits, laddoos and other recipes for their family and friends.

The initiative got good media coverage and gave the members of Trishakti skills and opportunity to initiate millet-based enterprises.

## MILLETS AT INTERNATIONAL HOCKEY WORLD CUP

4



Principal Secretary, Agriculture & Farmers' Empowerment and Principal Secretary, Women and Child Development at Mandia Café, the millets shop at Fan Village, Kalinga Stadium

Commissioner-cum-Director, Mission Shakti at Mandia Café, the millets shop at the Fan Village, Kalinga Stadium

SPECIAL PROGRAMME FOR PROMOTION OF MILLETS IN TRIBAT



# MISSION SHAKTI SUPPORTED TRISHAKTI SHG FEDERATION TAKES MILLETS TO PLACES



Entire team of Trishakti Federation that managed the millet food outlet at Hockey World Cup

#### RESEARCH





Seed beds for varietal trials at NCDS

Director, NCDS interacting with trainees from Mission Shakti

Nabakrushna Choudhury centre for Development Studies (NCDS), Bhubaneswar, in addition to being the State Secretariat also anchors the Research Secretariat for Odisha Millets Mission and is coordinating collaborations with various stakeholders to ensure smooth implementation of the programme and to develop relevant insights towards the Mission.

Research Secretariat is responsible for developing Baseline Indicators, Mid Term Evaluation, End line assessment, Impact Assessment and for policy development on millets. It works on actionable research related to Millets Policy Development in the state (markets, production, inclusion in state nutrition programmes, PDS etc.) with the Directorate of Agriculture and Food Production.

It has forged a research collaboration with University of Cambridge as part of TIGR2ESS (Transforming India's Green Revolution by Research to Empower Sustainable Food Supplies) and as part of this its Director, also a co-investigator of TIGR2ESS has visited Cambridge in November 2018 and scholars associated with TIGR2ESS have also visited Odisha including to field areas of Odisha Millets Mission.

The baseline survey reports for the seven first phase districts (Gajapati, Kalahandi, Kandhamal, Koraput, Malkangiri, Nuapada and Rayagada) and a common baseline report on area, production, sale price and value of produce are now available at: <u>http://ncds.nic.in/?q=project-report</u>.

NCDS also conducted a survey on the benchmark pricing for Suan (Little Millet) and Kangu (Foxtail Millet) with field support from the Programme Secretariat. This is expected to pave the way for arriving at a Minimum Support Price for these crops and design for inclusion in state nutrition programmes.

#### RESEARCH

As an effort to course correct the implementation of the programme, the NCDS came out with policy briefs on specific issues of concern like FAQ on transfer of funds, Procurement of Ragi, etc. The policy briefs can be accessed at:

#### http://ncds.nic.in/?q=policy-briefs

Three of PhD scholars from NCDS and a PhD scholar from Indian Institute of Technology (IIT) Bombay are working on research questions that are linked to Odisha Millets Mission. One of the PhD scholars has also contributed to Outlook's Poshan series based on her field notes from Kandhamal where nutritional interventions for expectant mothers converges with Odisha Millets Mission. It can be accessed at:

#### https://poshan.outlookindia.com/story/poshan-news-waiting-homes-for-expectant-mothers/339600

A second scholar has come up with her preliminary results on an analysis looking into six decades of growth, instability and decomposition of millets production in Odisha since 1960s.

In May and June 2018, a Summer Internship programme was organized by NCDS involving youth from Odisha and outside. The interns were divided into two groups: rural and urban. While the rural interns were tasked with conducting baseline surveys, the urban interns set up millet stalls in 26 locations across the city.

#### Interactive Space for Learning at NCDS

- 10000 sq.ft. of space in NCDS backyard turned into organic farmland
- •22 varieties of green vegetables cultivated and sold to staff to meet labour costs
- •22 indigenous varieties of millets being cultivated using standard SMI and Varietal trial methods
- Organic manures and compost being prepared and used under the guidance of agriculture experts
- Received 2<sup>nd</sup> prize in Kitchen Garden competition in Bhubaneswar

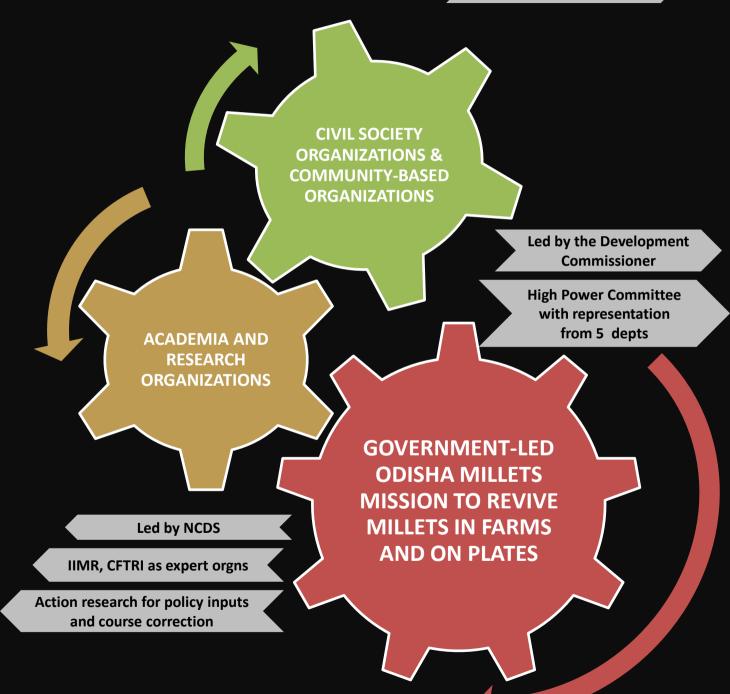


Director, NCDS and Secretary, NCDS at the interactive space for learning with other team members of Research Secretariat

## POWER OF PARTNERSHIPS IN ODISHA MILLETS MISSION

55 NGOs in partnership

69 CBOs in partnership



#### PARTNERSHIP WITH THE INDIAN INSTITUTE OF MILLETS RESEARCH



#### CMO Odisha 🤣 @CMO\_Odisha · Nov 14, 2018

The state has also signed MoUs with NABARD for formation of Farmer Producer Organisations to collectively leverage their production & marketing strength and with Indian Institute of **Millets** Research to support **Odisha Millets** Mission



Centre: Hon'ble Chief Minister of Odisha Shri Naveen Patnaik L from centre: Dr. Vilas Tonapi, Director, IIMR R from centre: Dr. M Muthukumar IAS, Director, A&FP (O), Director, NCDS and State Coordinator, WASSAN



ENGAGING WITH DECISION MAKERS ON MILLETS



Dr. N. K. Singh, Chairman, 15<sup>th</sup> Finance Commission, Government of India at Odisha Millets Mission stall, Mayfair Convention, Bhubaneswar, January 2019

ODISHA MILLENS MISSION

en <del>Smart</del> Foo

1101

Current Hon'ble Governor of the Reserve Bank of India, Mr. Shaktikanta Das at NCDS campus to visit millets stall

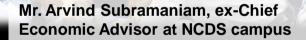
# **ENGAGING WITH DECISION MAKERS ON MILLETS**



Hon'ble Minister of A & FE, FARD, Odisha, Dr. Arun Kumar Sahu at millets food stall at Krushi Bhawan, August, 2019



Discussion with Ramesh Chand, member, NITI Ayog at NCDS campus





From L to R: PS, A&FE (O), Development Commissioner (O), Secretary, DAC & FW, APC (O), Director, A & FP(O), Director, NCDS

## **FUTURE PLANS**





#### CMO Odisha 🤣 @CMO\_Odisha · Sep 13

With coverage of 72 blocks in 14 districts, **#Odisha** has achieved considerable success in promoting **millets** in tribal areas. It has also piloted distribution of subsidized Ragi through Fair Price Shops in Gajapati, Kalahandi, Kandhamal, Koraput, Malkangiri, Nuapada & Rayagada.

Q 6 1,32 ♡ 117 1

#### Show this thread



CMO Odisha 🤣 @CMO\_Odisha · Sep 13

**#Odisha** will also be driving demand for **millets** by including Ragi in food distributed at Anganwadi centres & schools. To promote dietary intake of **millets**, an awareness drive on its health benefits has also been proposed.

Ç2 t⊒34 ♡114 ₫

Show this thread



