



Role of SOVA in the Project :

SOVA has been selected as the implementing agency responsible for 4 blocks i.e Sadar, Kamakhyanagar, Buban and Parajang of Dhenkanal where fortified rice will be provided.

The Major Role of SOVA is to

1. Sensitise the Stakeholders at the District and the Block Level
2. Conduct capacity building of teachers and cooks.
3. IEC activities for awareness of student and community members.
4. Monitoring the implementation of the program.



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MULTI MICRONUTRIENT FORTIFICATION OF MID-DAY-MEALS USING FRK IN DHENKANAL DISTRICT OF ODISHA



(A pilot intervention to reduce malnutrition in school going children)

PROJECT OPERATIONAL BLOCK(S)
SADAR, KAMAKHYANAGAR,
PARJANG AND BHUBAN



Project Stakeholder :

- Dept. of School & Mass education
- World Food Programme (WFP)
- Social Organisation for Voluntary Action, (SOVA) (Implementing Agency)
- Rice processor – Laxmi Narayan Agro Foods Pvt. Ltd.
- FRK Supplier
- National Accreditation Board for Testing and Calibration Laboratories (NABL) accredited laboratory.
- Indian Institute of Public Health for the impact assessment.
- Primary and Upper Primary children of Govt. aided schools of Dhenkanal Dist.
- Panchayat Raj Institution , School Managing Committee Members, School teacher & Head Master.

Experience on Iron fortification in Gajapati :

WFP in partnership with Government of Odisha implemented a pilot project for the fortification of rice used in the MDM in Gajapati district, Odisha. After successful implementation and with significant outcome of the project over a period of 3years, WFP handed over it to Government of Odisha on

31st October 2015.

Other modality of fortification to be implemented in Dhenkanal:

Schools in 4 blocks namely Gandia, Odapada, Hindol, Kankadahad will receive MNP, which will be added in cooked curry on site in the schools for consumption by the school children.

Background :

Odisha is a nutritionally vulnerable state with high levels of micronutrient malnutrition (MNM), 65% of children between 6-59 months of age as well as 6 out of every 10 women and one-fourth of men in the reproductive age group are anaemic as per the National Family Health Survey (2005-'06). The Clinical, Anthropometric and Biochemical (CAB), 2014 data suggests that anaemia prevalence in Dhenkanal district among school children aged 5-9 years is 76.2%, whereas among children aged 10-17 years is 64.6%.

While recognizing the range of interventions implemented by the National and State government to address this situation, there is an urgent need to integrate food fortification in the overall response. Food fortification can lead to relatively rapid improvements in the micronutrient status of a population at a very reasonable cost, especially if advantage can be taken of existing technology and local distribution networks. Further it does not require any behavior change on the part of the consumer.

Project Mission :

The mission of the project is to provide GoO with an operationally feasible and economically viable model to create a positive impact on the micronutrient status and functional performance of school children for potential scale-up across the state.

Project Objectives :

- ♦ A replicable model developed for the state government for the fortification of Mid-Day Meals.
- ♦ All intended MDM beneficiaries in the age group 6–14 years have access to fortified meals in all schools of the district
- ♦ Capacity of the concerned officials associated with MDM at the state and district levels built for procurement of appropriately fortified rice and MNP powders, fortification of mid day meals and its quality assurance
- ♦ Capacity of school teachers built on fortification of cooked midday meals
- ♦ 1840 MTs of fortified rice will be used for onsite cooking under the MDM Program in Dhenkanal district.

Project Approach and Strategy :

Rice fortification is simpler and easier process where fortified rice kernel (FRK) can be blended with regular rice centrally and serve to the school going children to prevent themselves from anemia and malnutrition. In current project FRK will be blended with normal FCI rice with a proportion of 1: 100 respectively. Ms Laxminarayan Agro Foods Pvt. Ltd (LNAF), Panchupati, Dhenkanal is assigned to perform the task of blending. The nominated teachers & CCHs from each school will be properly trained on the modalities of fortification.

To ensure that fortification of the mid-day meals is at an adequate level, WFP will identify National Accreditation Board for Testing and Calibration Laboratories (NABL) accredited laboratory within or outside the state where the cooked food samples would be tested for appropriate micronutrients.

The success of the project is inherent in the role of the grass root functionaries in the schools and school children, therefore capacity building sessions for the teachers and various awareness campaigns for the school children will be organized in Dhenkanal through an implementing partner. The capacity building of the teachers and the grass root functionaries will include topics that will facilitate operationalization of the project, technical aspects of causes and consequences of MNDs (Micronutrient deficiency disorders) and issues related to gender.

The project would also focus on building linkages with state, district and block level officials of School & Mass Education Department (DS&ME) and other line departments in order to apprise them about the project objectives, proposed activities and its health benefits so that their support can be garnered.

Sl.No.	Name of the Block	Total No. of Schools	Roll Strength in PS	Roll Strength in UPS	Total Roll Strength	No. of CCH
1	Bhuban	169	7693	5450	13143	377
2	Dhenkanal Sadar	269	12007	8124	30131	596
3	K.Nagar	200	9025	5644	14669	401
4	Parjang	197	7982	5331	13313	422
	Total	835	36707	24549	61256	1796

Fortification of the Mid-Day Meals using FRK :

Food fortification is scientifically proven and accepted. By this process we get micro nutrients which help us in preventing anemia, mal nutrition and promote our physo-social and physical wellness. Rice fortification project aims at reducing anemia and malnutrition of the children of the age group 6-14 years for which special attention from all segment of the community people is highly solicited.

Micronutrient being added:

The National Institute of Nutrition (NIN) is a part of Technical Advisory Group (TAG) for the project. The NIN approved micronutrient composition for the project is as follow:

Nutrient	Fortified rice served to children between 11-14 years of age (Upper primary school children)	Fortified rice served to children between 06-10 years of age (Primary school children)
Iron	18 mg	12 mg
Zinc	8 mg	5.33 mg
Vitamin A	300 µg	200 µg
Vitamin B12	0.5 µg	0.33 µg
Folic Acid	75 µg	50 µg
Thiamine	0.7 mg	0.46 mg

Coverage Area : 4 Blocks in Dhenkanal

