



NAFCC PROJECT at NUAPADA, Odisha

Name of the NAFCC Project:- Conserve water through the management of run-off in the river basin to reduce vulnerability and enhance resilience for traditional livelihood in Nuapada.



Introduction

This project has funded by MoEF & CC for Rs. 20.00 crores and aims to **reduce vulnerability and enhance resilience for traditional livelihood in Nuapada district by restoring a hill stream in Jonk river basin through constructing water harvesting structures i.e. check-dams to conserve water through the management of run-off.**

The project has aimed to achieve multi-sector improvement specifically in

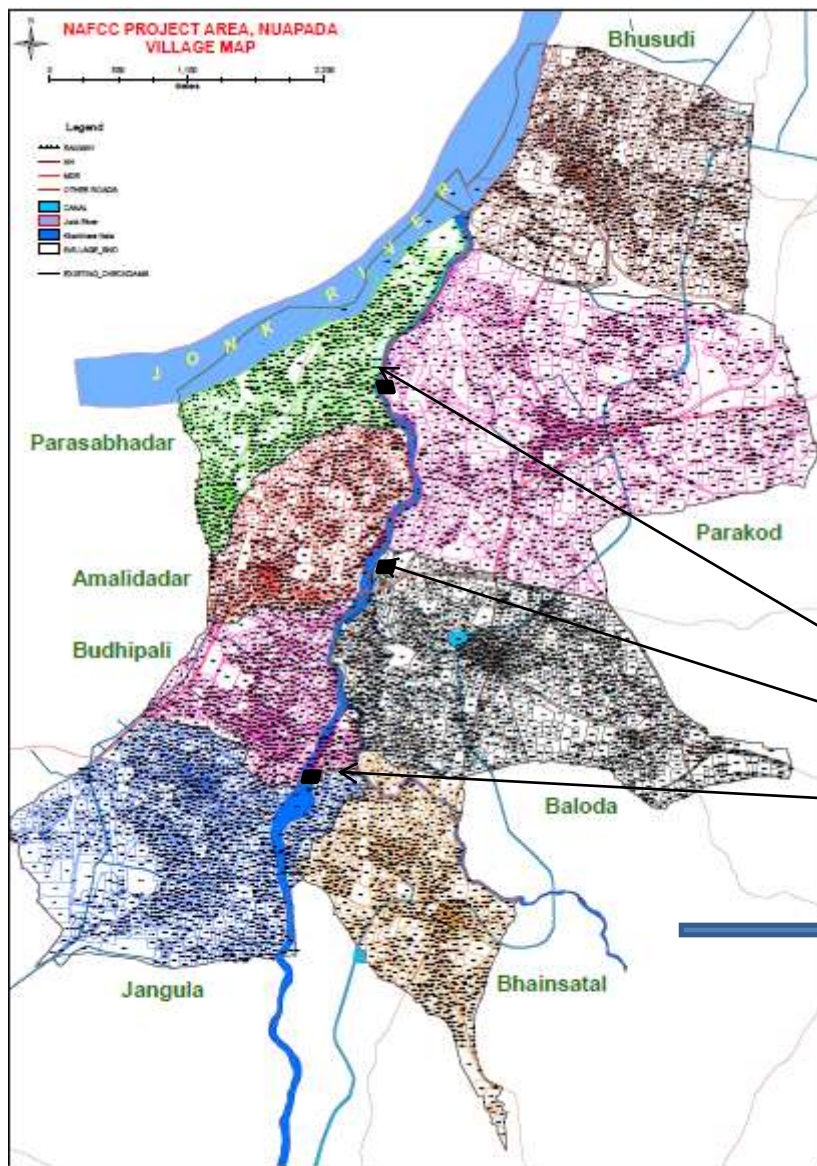
- [1] water conservation through construction activities,
- [2] promotion of horticulture,
- [3] linking the fishery & Livestock ,
- [4] use of Solar energy for lifting water from ponding area
- [5] capacity building activities as well as efficient use of water for agricultural activity
- [6] Monitoring Climate change adaptation and effects.

This model project is adapted in eight villages named Budhipalli, Amlidadar, Boloda, Palsabhadar, Parkoda, Bhainsatal, Jangula and Bhudsudi at the bank of Kharakharanala in Nuapada block of Nuapada District.

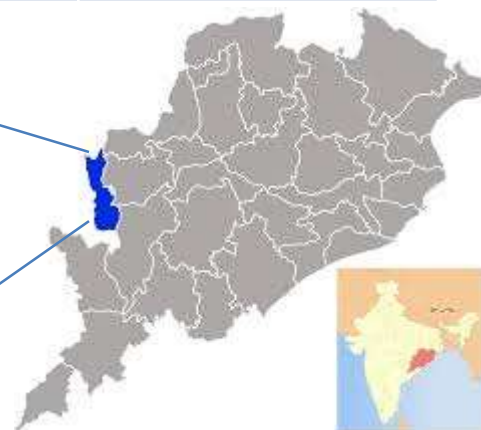
There are six clusters in the command area for 237 Ha. of irrigation.



Location of the National Adaptation Fund for Climate Change Project in Odisha



Project	Longitude	Latitude
Parkod CD	82° 33'30"E	20° 55'40"N
Parsabhadar	82° 33'22"E	20°55'25"N
Budhipali CD	82°33'05"E	20°54'55"N





Challenges

- The project area was dry and there was no source of water for irrigation.
- Huge migration due to non-availability of farm/non-farm employment.
- Due to backwardness, it was difficult to convince regarding the interventions .
- Lack of minimum care by local residents resulted loss of sampling at the initial stage of the project.
- People lacked dreams towards a healthy living standard.
- Theft and destruction of Solar panels, micro pipes during the project execution time.

Some strategy to overcome Challenges

- Sensitization by group meeting as well as one to one meeting
- Exposure visit WALMI, WALAMTARI and local success sites.
- Some responsive farmers were chosen and the initiation has started from their field for by Motivating Panipanchayat members and making them to understand about for maintenance and operation of CD, PIN & Micro irrigation system for the best utilization of farm activities
- Convergence of all line departments like Horticulture, Agriculture, forest, fishery and Veterinary department for motivating and looking after the needs of farmers.
- Regular steering committee meetings and monitoring at all levels from field to state.



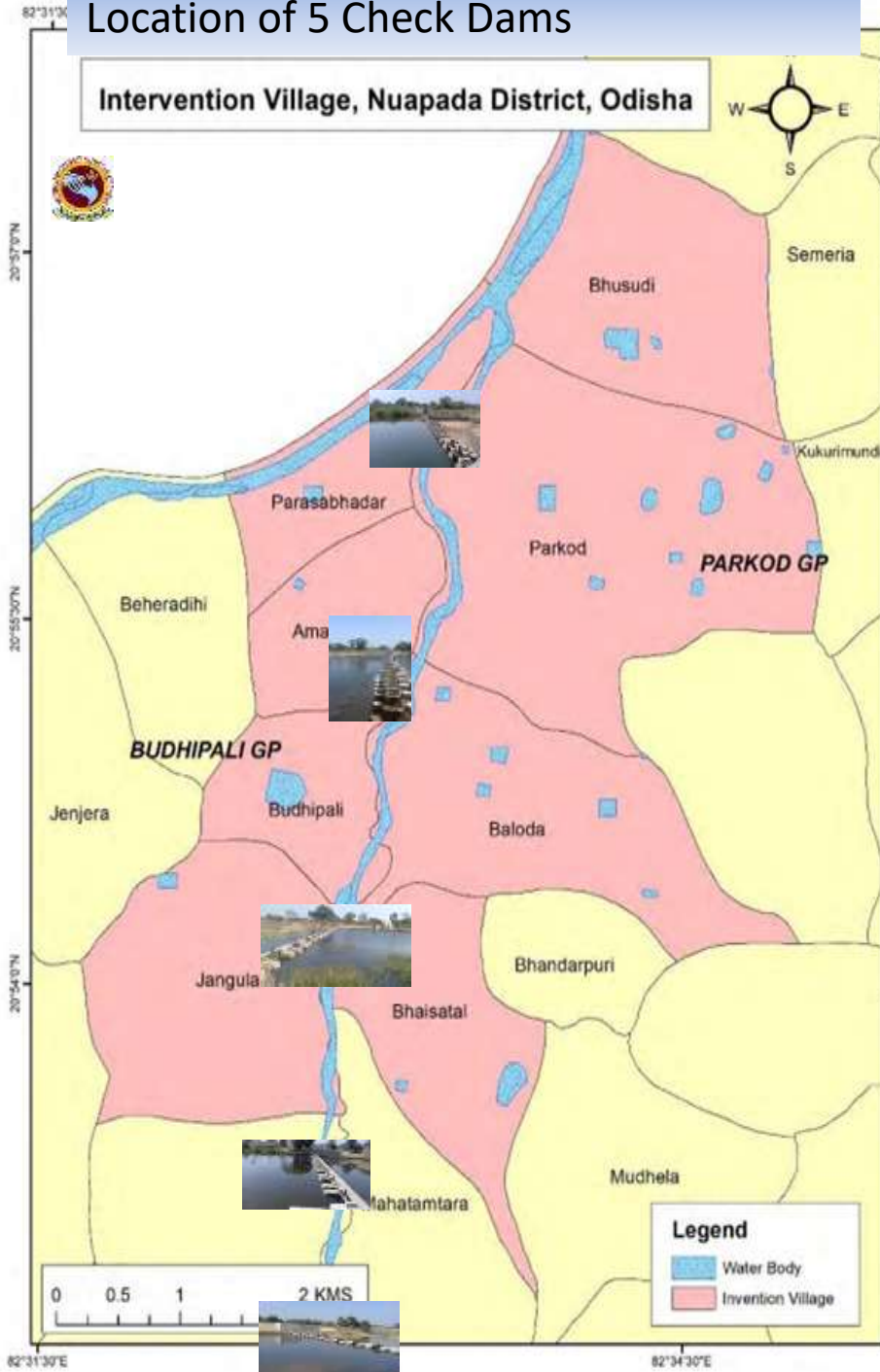
Scalability

- Water conservation in 7.5km Dry Nalla with 5 new Check Dams
- 33 New Farm Ponds along with 44 existing village tank and farm ponds for GW recharge & Horticulture, pisciculture
- Development of 237 + Ha. of ayacut against 145 Ha. of target
- Fishery Benefits of 28 lakhs from 15 village tanks in 5 Qtrs.
- Reduction of Carbon emission by using 55 Solar water Pumps
- Capacity building of 690 farmers in exposure visit and training
- Formation of 7 Panipanchayat , 2 FPO for sustainability
- Transformation in Eight villages with 1440 dwellers
- Ground water recharged in all the villages from 10m to 3m helped all the dwellers for development of organic kitchen garden.

Replicability

- Can be adapted in the similar situations of dry stream and high lands of the same district and other districts which are facing multiple challenges like flood, draught and other natural hazards.
- Vulnerable conditions can be improved through adaptation in the newly constructed 15000 nos of CDs of the state of Odisha.
- Replicability can be made through New In-stream-structures in various small rivers and the cash crops can be encouraged through it.
- Efficient use of water can be made with the help of Piped Irrigation Network, linking them with Micro Irrigation System.
- Up lands of all 4140 existing minor irrigation Projects can be also updated for efficient use of water scheme and the command area can also be increased.

Location of 5 Check Dams



Mohtamtara CD



Jangula CD



Budhipali CD



Palsabhadar CD



Parkod CD



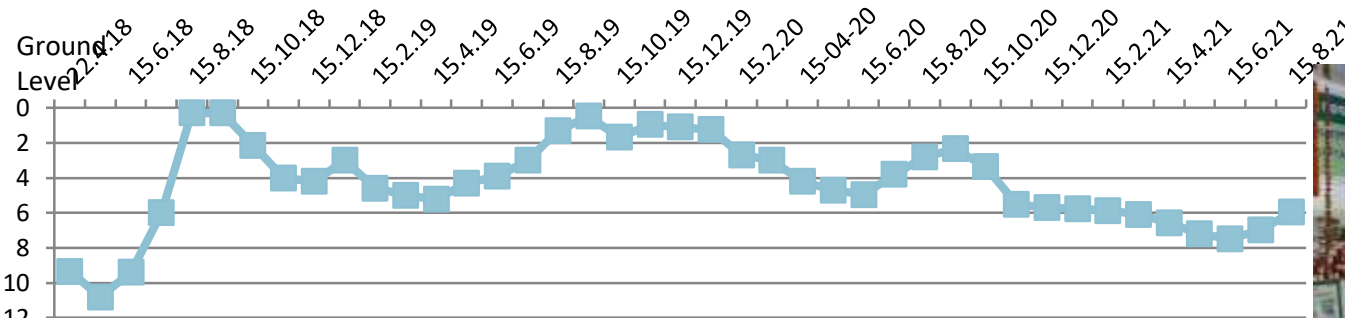
OUTCOME FROM THE PROJECT



Organic farming and productions in Kitchen Garden and Fields



Fishery benefits and Farm produces & sales in the counter



Improvement in Ground water in one of the 15 observation wells



Sensitization towards efficient use of water & Farm Produces



Solar pumps Piped irrigation and Micro Irrigation visit by the Chief Engineer-MI



Value addition production of Badi and Orange Juice



Fish cultivation in Farm Ponds, Check Dams and Village tanks

CLIPPINGS OF SOME IMPORTANT ACTIVITIES AT FIELD LEVEL



Dist. Level meeting under Collector



World water day observation at Field



Field Level meeting with Principal Secy. DoWR



Chief Secy. visits the Field



Panipanchayat & FPO meetings and Training

Sensitization towards efficient use of water



Street play and PALA in the villages for sensitization

Wall painting for efficient use of water



Awareness program in the Schools with active participation from the students in the competitions



Mushroom seed production

Capacity building training in Women participants