



Household Bio-Gas Plants Innovative Business Model

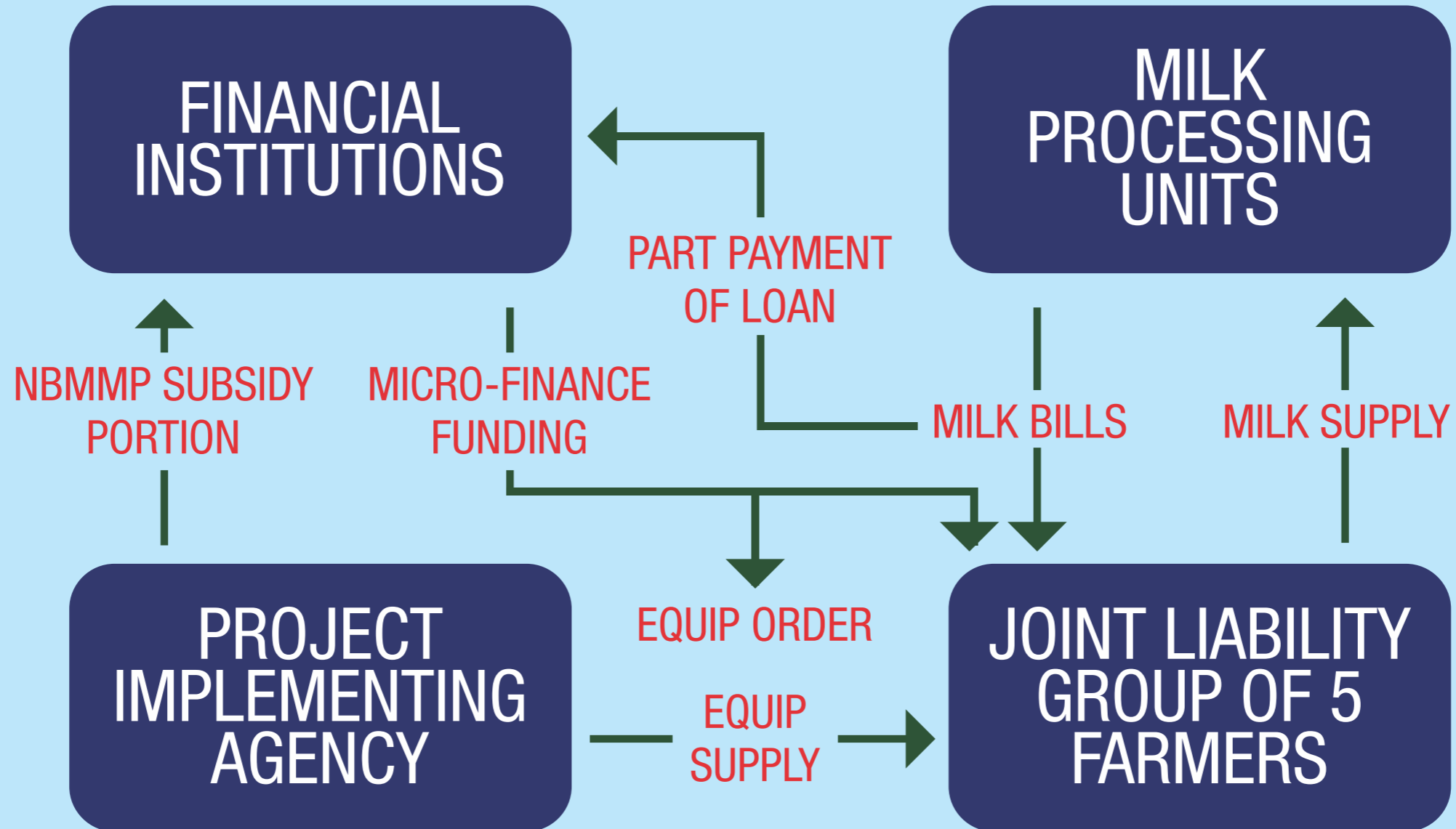


Presented By:
Mr. Abhijit S. Naik - Managing Director
Yashwant Energy Private Limited, Shirala, Maharashtra, India

PROJECT PROPONENTS



PROJECT STRUCTURE



ROLES - PROJECT PROPONENTS

BENEFICIARY FARMERS

Participate in the program by forming joint liability groups of 5 farmers each

Arrange for own capital

Provide the land within 1000 ft area of his home

Supply milk to associated milk processing unit

FINANCIAL INSTITUTION

Finance the JLG in micro-finance structure

Monitor the installations of units in JLG

Avoid duplication of beneficiaries

Pass on the benefits of subsidies to individuals



ROLES - PROJECT PROPONENTS

MILK PROCESSING UNIT

Stand as guarantor for the loan

Collect milk from members of JLG

Deduct the respective amounts due to financial institution from the milk bills paid to farmers

Make the loan repayment to financial institution

PROJECT IMPLEMENTING AGENCY

Set up the hdpe bio-gas manufacturing facility

Supply and erection of the bio-gas units to JLG members

Provide repair and maintenance service to JLG members for 5 years

Facilitate the identification of individual farmers for program and execute the documentation with financial institution

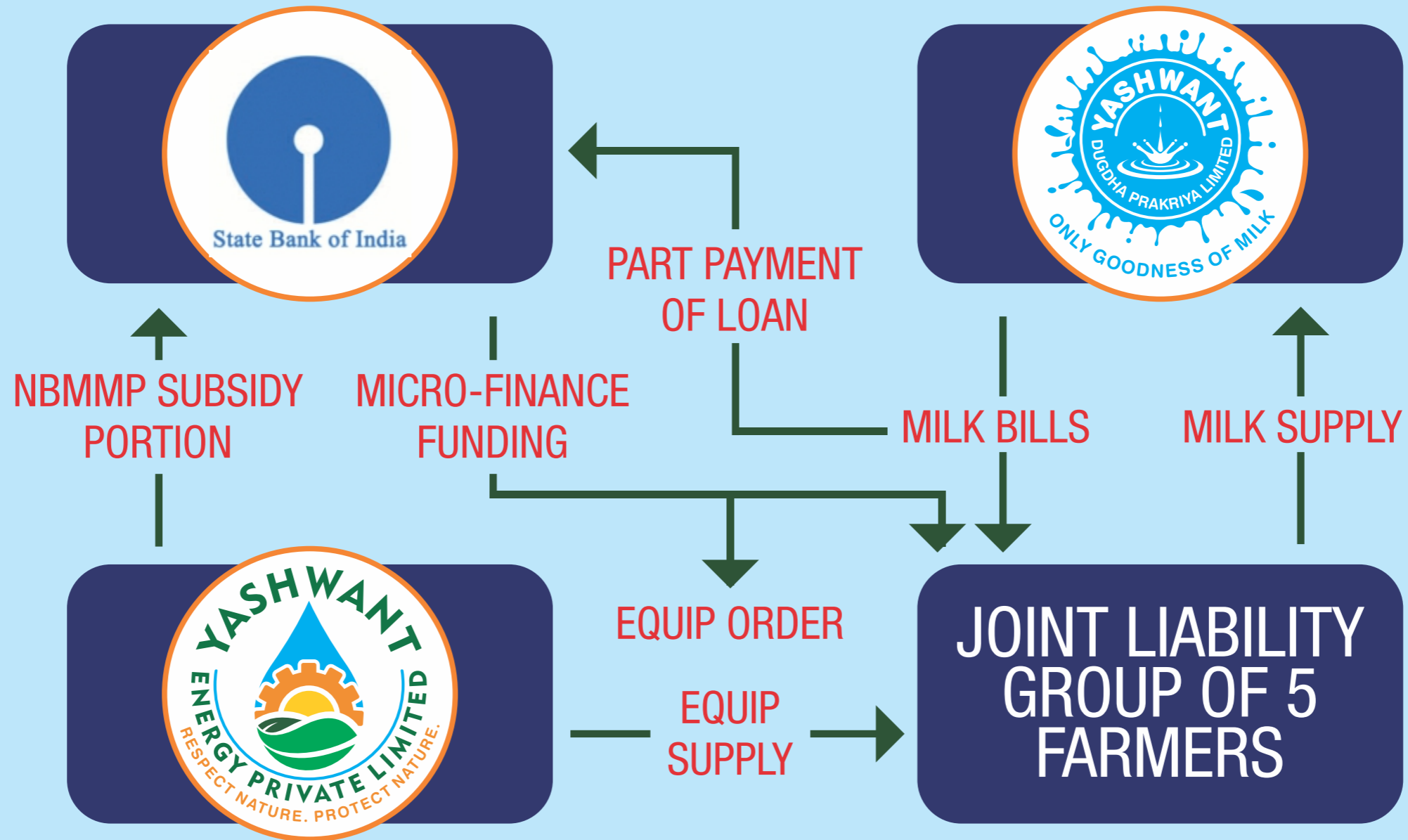
Complete the documentation required to avail financial assistance from MNRE

In collaboration with milk processing unit, train the local people to carry out basic repair work at village level

Act as one window solution for the farmers



IMPLEMENTED PROJECT STRUCTURE



A woman in a blue sari is pouring feed into a biogas digester. The digester is a large, cylindrical metal tank with a spiral staircase on top. The text "BIO GAS SYSTEM" is visible on the side of the tank. The background shows a rural landscape with trees and hills under a clear sky.

PROJECT OVERVIEW

ESTABLISHMENT OF IMPLEMENTING AGENCIES EVERY 5 DISTRICTS

Reduce transportation cost of bio-gas plants

Localized agency can handle plant issues better with participating milk processing units

Network like LGP Gramin Vitarak Scheme can be adopted

PROMOTE THE PROGRAM IN CO-OPERATIVE AND PRIVATE SECTOR MILK PROCESING UNITS

MPUs can adopt their current milking animal finance scheme

The local staff of MPUs can be given training to handle minor issues at site only

PRIORITISE THE FINANCE

Provide separate targets to financial instution for lending in the sector

Provide benefits of both renewable energy sector & rural finance sector

PROJECT OVERVIEW



FACILITATE THE IMPLEMENTING AGENCIES AS CHANNEL PARTNERS

The CFA could be directly routed to such agencies to subsidize the cost of the plant and reduce the lending burden

Follow the structure of rooftop solar water heating system

REVISE THE TARGETS UNDER NBMMP SCHEME

To achieve break even for manufacturing unit min 5000 plants needs to be installed by one implementing agency

COMPARATIVES : INDIVIDUAL

	BIO-GAS BENEFICIARY	LPG BENEFICIARY
INITIAL CONTRIBUTION	Rs.5000.00	Rs.6500.00
GOVERNMENT SUBSIDY	Rs.9000.00 (One Time)	Rs.2100.00 (Annually)
Co ₂ EMISSION REDUCTION	4 MT / YEAR	-----

Even if the subsidy is reduced by half and number of beneficiaries are increased bio-gas mission shall eventually reduce the subsidy burdon on government



COMPARATIVES : CO₂ FOOTPRINT

	BIO-GAS PLANT	SOLAR / WIND POWER
INVESTMENT	Rs.20,000.00 (per plant)	Rs.7 CR / MW
Co ₂ EMISSION REDUCTION	4 MT / YEAR	1300 MT / YEAR
COST OF Co ₂ EMISSION REDUCTION / MT	Rs.5,000.00	Rs.45,000.00

Bio-gas installations is the cheapest way to achieve post 2020 CO₂ emission reduction targets



TARGET : IMPLEMENTING AGENCY

INSTALLATION OF 4000 PLANTS PER YEAR

GENERATION OF EMPLOYMENT

20 labour for manufacturing facility

20 labour for erection and commissioning

10 labour for repairs and services

5 persons for administration etc

REDUCTION OF CO₂ EMISSION BY 20000 MT PER YEAR

200 MANUFACTURING FACILITIES THROUGHOUT INDIA

ACHIEVEMENTS

More than 800,000 families below average middle class income voluntarily giving up the right for LPG subsidy

Reduction in carbon footprint by 32,00,000 MT of CO₂ emissions every year

Sustainable development by creating employment opportunity

Benefits to rural india





Thank You...

— Team Yashwant Energy Private Limited