

REVISED PROJECT PROPOSAL

**FOR ASSISTANCE TO THE FARMERS TO TAKE UP
INTEGRATED FODDER PRODUCTION & FEEDING MANAGEMENT
UNDER RKVY (STREAM – I)**

FISHERIES & ANIMAL RESOURECES DEVELOPMENT DEPARTMENT, ORISSA

PROJECT PROPOSAL FOR ASSISTANCE TO THE FARMERS TO TAKE UP INTEGRATED FODDER PRODUCTION & FEEDING MANAGEMENT UNDER RKVY.

Introduction:

Agriculture is the main source of livelihood for most of the rural population in the state of Odisha. Agricultural byproducts are inputs for livestock rearing which brings supplementary income to rural poor. The feeding management of the crossbred dairy animal in rural area is becoming uneconomical as the productivity of the animal depends on nutritionally balanced feed. Although cereals are produced by the rural farmer their by-products come back as feed ingredients to livestock farmers with added costs through a series of middle men and traders. On the other hand the feed ingredients are also in demand from the Poultry feed & Fish feed manufacturers.

This production input sourcing situation forces the livestock keepers to rear their crossbred milch animals by allowing them to graze in common property resources (CPR) like Gochar, waste land, barren land and current fallows and by feeding them on nutritionally poor crop residues subjecting the cross bred livestock to a nutritionally unbalanced feeding regime resulting in sub - optimal production.

Animal productions being a labour intensive enterprise, 80% of the crossbred animals are reared either by small & marginal farmers or land less labourers who can spare family labour. This advantageous situation can be exploited for fodder production & feeding management at individual Cross Bred livestock rearer level to balance the nutritional requirements for optimum productivity by eliminating the dependence on external input & reducing the production cost of milk.

In Orissa, the estimated availability of green fodder and the dry fodder per year from all sources is 16121.750 TMT and 31203.66 TMT respectively. The present short fall is 48.4 % for green fodder and 23.5 % for dry fodder.

Feed stuffs	Supply in '000 MT	Demand in '000MT	Short fall in '000MT	Percentage of shortfall
Green Fodder	16121.750	31203.66	15081.91	48.4 %
Dry fodder	10620.831	13891.44	3270.609	23.5%

The present feeding management practices adopted by farmer for animals is grazing & feeding on crop residue. Additionally grain by-products are provided only to the lactating animal during milking stage. However, the nutritional availability for attaining the true genetic potentiality in terms of milk production is much below the requirement.

The state budgetary provision during 2009-10 for fodder development programme was Rs 12.63 lakhs under non plan & Rs 1.00 lakh under state plan. With this limited support perennial fodder cultivation was organized over 80 Ha. in irrigated area & 1300 Ha. Seasonal fodder cultivation in rain fed area through Central Minikit Testing programme for a breedable crossbred animal population of 464494 in the State.

The intensive milk production zone is mainly in irrigated area with a breedable crossbred population of 323587 having a net work of 1387 MPCS. The potential milk production zone with a breedable crossbred population of 140907 comes under rain-fed condition with a net work of 655 MPCS.

A perspective plan of ARD sector for ten years up to 2020-21 has been prepared by the F & ARD Department, Government of Orissa. This plan targets to cover an area of 60,000 hectare under Fodder Production over a period of ten years to meet the green fodder requirement of 813257 breedable crossbred animals. Under the perspective plan it has been programmed to assist farmers for enrichment of crop residue and ensiling of seasonal excess to the tune of 50000Mt per year.

The seed and planting materials availability needs to be increased multifold by 2020 by strengthening of 20 existing fodder farm of the state under RIDF to produce 640 lakh numbers of perennial root slip and 58000 Nos, of fodder tree seedling & 2350 Qtls. of certified fodder seed. In addition to it under CSP schemes. 2568 Qtls of Certified fodder seed will be produced per year through registered seed grower.

Perspective Plan Physical Outlay proposed

Sl. No	Activities	1st Yr	2nd Yr	3rd Yr	4th Yr
1.	No of Fodder Farms to be strengthened	1	14	5	
2.	Farm Area to be covered in Hectors.	200	86.6	71.2	
3.	Production of Root slips in lakhs nos. in Farms	200	340	100	
4.	Production at Farm- Seed in Quintal	1440	420.8	489.6	
5.	Production at Farm - Sapling in thousand nos.	20	28	10	
6.	No of Fodder Seed Growers units to be set up	30	30	30	30
7.	No of farmers to be involved in seed growing	300	300	300	300
8.	Certified Seeds to be produced each Year in Qtls	642	642	642	642

Extension of fodder cultivation in Orissa can contribute significantly to the growth of agriculture and allied sector by enhancing the CB animals' average milk production from 5.117Kg per day to 7 Kg per day i.e. the national average by ensuring fodder availability at farmer's level for the existing breedable crossbred animals.

With this background the project proposal for assisting the farmers to take up an integrated fodder production & feeding management demonstrations at grass root level through Interest Groups or MPCS for wider adoption of proven technology is formulated under RKVY, for 19 districts. The numbers of MPCS and their members involved in milk production and its marketing through OMFED is indicated below. Out of this 1000 MPCS area will be covered over a period of 5 years in clusters under the programme.

The other districts will be covered by selected agency as decided by the Govt. to take up fodder development programme. There will be 100 centers in the **operational** area.

DISTRICTWISE SOCIETY AND MEMBERSHIP (OMFED as on March 2010)

SL.NO	Milk Union	Functional Society	Farmers Membership
1	CUTTACK	1250	80284
	Cuttack	490	31436
	Jagatsinghpur	499	33248
	Kendrapada	201	11508
	Jajpur	60	4092
2	DHENKANAL	18	6590
	Dhenkanal	18	6590
3	KEONJHAR	123	8256
4	PUMUL	633	49225
	Puri	481	38546
	Khurda	104	6795
	Nayagarh	48	3884
5	SRMUL	36	1282
	Jharsuguda	32	1184
	Deogarh	4	98
6	BBAMUL	292	22395
	Balasore	141	10727
	Bhadrak	151	10668
7	Mayurbhanj	26	5214
8	GGGMU	150	8845
	Ganjam	119	6358
	Gajapati	31	287
9	KMNR	118	3751
	Malkangiri	72	2325
	Rayagara	46	1426
10	SUNDERGARH	1	6250
11	KANDHAMAL	0	0
		2647	192092

Need for assistance to farmers to popularize fodder cultivation

The present cost of milk production is mainly driven by the cost of concentrates an external inputs for productivity. The farmers' expenditure on feeding of the productive animal is influenced by the comparison of the sale price of milk with the cost of concentrate feed. This compels the farmers to adopt sub-optimal feeding practices which lead to malnutrition resulting in a longer inter-calving period and retardation of the production potentiality of the crossbred animals.

A cost effective feeding practice for productive crossbred animal can be achieved by decreasing the dependence on external input i.e., concentrates & increasing the

internal input system through fodder production at farmer's level for nutrient availability & its balancing for optimum productivity by assisting farmers through an integrated approach by organizing;

1. Lead Demonstration plot in cluster.
 - a. For Perennial fodder production in irrigated area.
 - b. For Seasonal fodder production in the existing grain cropping of irrigated & rain-fed area and ensiling of seasonal excess for use in the lean period.
2. On field training of farmers within the cluster
3. Support service to lead farmers to raise nursery for planting materials
4. Motivation of farmers' to take up fodder farming in their own lands

RKVY is a holistic programme covering skill development, infrastructure, technology up-gradation and marketing. The present project proposal under 'Stream-I' aims to assist the farmers in adopting fodder cultivation in their own lands. This envisages focused attention on the special need to develop feed resources by improving availability of green fodder. In view of this, it is required to take up the project particularly in intensive dairy zones for enhancing milk production.

Proposed Assistance to be extended to Farmers:

- Supply of Certified Planting materials to farmers for raising fodder plot in their own field
- On farm production of nutrient rich material like Azolla, use of byproducts of forest origin
- Introduction of feeding systems which will ensure optimum utilization of available resources like chopping and soaking, mixing with greens and/or concentrates, strategic supplementation etc.
- Provision of Chaff Cutter for each cluster
- Provision of 200 CFT polythene lined silo pit and other ingredients to farmer for demonstrating ensiling of seasonal excess
- Capacity development of farmers and other stake holders

Objectives of the proposed schemes:

1. To create fodder demonstration plot & lead trainer at village level for dissemination of fodder production & its utilization technology.
2. To enhance the capacity of farmers for adoption of fodder production technology through field level training
3. To support expansion of the fodder area to additional 60,000 hectares of land
4. To support fodder and planting materials availability in the area

Modalities of implementation: undertaken for

- The farmers having CB animals and willing to spare land or arrange land of their own effort for fodder production will be selected for the programme.
- The members selected under self employment programme for dairy, will have to start a demonstration unit prior to their selection for dairy unit under bank finance
- Selection will be made by a joint committee including OMFED/dairy organizations through their DCS by involving local NGOs working in Animal Husbandry sector / Pani Panchayat / SHG & the AH departmental fodder staff / CDVO of the district.
- Priority will be given to the area, where milk marketing has been organized and the bankers supported dairy finance entrepreneurs without any fodder programme will be included under this programme.
- Awareness on the proposed programme will be created in the selected villages for expression of interest by farmers to avail assistance under this programme.
- At least 5% of the house holds having CB animal will be selected per year through village meeting to take up fodder area expansion in the cluster of 50 farmers per year & every year new farmers will be brought within the ambit of programme.
- The selection of member will be divided in to two groups consisting of 25 members each. One group will be selected among the members of the society and other 25 members from non members having CB animals beyond the MPCS network but residing in the cluster. However changes can be made within the area by the selection committee to achieve better result.

- Due care will be taken to involve the non members of the MPCs having CB animal to increase the source of fodder for the total population.
- One lead farmer for each MPCs / Groups will be selected for creating & maintaining demonstration plot and will be trained as trainer for organizing field training at the lead demonstration plot to disseminate fodder production and feeding management practices to 25 members of each cluster.
- The fodder cropping plan for the cluster will be prepared by the fodder officer and the lead farmer will be trained to develop nursery point in his own area to supply and support fodder production system.
- Supply of the certified planting materials will be ensured from the departmental fodder farms on cost basis. If not available at Departmental farms then certified fodder seed will be purchased from the fodder seed growers & from reliable seed agencies on recommendation of the Fodder Development Officer.
- The minimum area under lead demonstration will be 0.20 ha, for perennial & for seasonal the maximum area will be 0.50 ha. and for groups there will be no limitation of area for availing assistance and the members will be eligible for assistance by covering at least with an area of 0.06 Ha for irrigated area and 0.13 Ha in non irrigated area.
- The assistance will be provided to the farmers in shape of kinds, not in cash by the recommendation of the field fodder staff.
- The assistance will be transferred in phases by the implementing agency as per progress of field work by the farmer.
- Assistance will be extended to all the govt. sponsored dairy schemes including CRP in cluster area to check their failure.
- All the new fodder technology dissemination programmes will be implemented by this committee.
- Farmers involved in marketing of green fodder can also taken into consideration till establishment 1st fodder crop.

Fodder crop demonstration and interaction:

Departmental fodder officers at the grass-root will organize the lead demonstration of different fodder crops as per existing situation & requirement of animals. The trained lead farmer will take up day long training for further dissemination and adoption of different fodder production & utilization technologies by other farmers

within the cluster. The proposed demonstration at cluster level will lead to expansion of both perennial and seasonal fodder cultivation in the farmers' field as envisaged in the perspective plan.

Perspective Plan Physical Outlay proposed for fodder cultivation in farmers' field

Sl. No	Activities	2010-11	2011-12	2012-13	2013-14	2014-15
i.	Perennial - Area in Ha under demonstration per year	300	600	900	900	1200
ii.	Seasonal (Kharif+Rabi Area in Ha under demonstration per year	650	1300	1300	1300	1950
iii.	No of Farmers to be involved for demonstration (perennial +Seasonal)	5000	10000	10000	10000	15000
iv.	Requirement of Root slips in lakh	90	180	180	180	270
V	Requirement of Seed in Qtl	260	520	520	520	780

The proposed demonstration at cluster level will lead to expansion of both perennial and seasonal fodder cultivation in the farmers' field as envisaged in the above Perspective plan.

Village level training for Dairy farmers

The following 8 nos. field training one day each will be imparted in successive manner on the following technology at the lead farmers' demonstration site at cluster level. 24 farmers of the cluster those who are willing to cultivate fodder in their own land will attend the training on a prefixed date. The training will cover the following aspects at the demonstration site. The farmers will receive the training and try out the learning in their own field. The green fodder produced in their field will be fed to their dairy cows and farmers' will observe the effect on green feeding spreading over an inter - calving period of the cow.

1. Training on establishment of Seasonal fodder crops in irrigated & rain-fed condition. (Kharif)
2. Training on establishment of Seasonal fodder crops in irrigated & rain-fed condition. (Rabi)
3. Training on establishment of Perennial fodder crops.
4. Training on Cutting management of different fodder crops for appropriate nutrient level.
5. Training on Ensiling of fodder crop and utilization of crop residues.

6. Training on top feed fodder trees and trees of medicinal value for livestock.
 7. Training on non-conventional fodder resources. (Azolla production, Enrichment of crop residue)
8. Training on nutritional balancing & feeding management.

The training modules, reference handouts, IEC materials will be developed by associating Orissa University of Agriculture & Technology, BBSR, AICRP (Forage Crop), Nutrition Department of Orissa Veterinary College, Bhubaneswar, the KVKs of the state & SMILE. A standard module will be used in order to impart the training programme in the field.

The Lead Farmer of each cluster will be imparted with a trainers' training programme at the District/Milk Union level covering 20 clusters. Twenty such programme per annum will be organized to cover 400 clusters. The training programme will be coordinated through Society for Management of Information Learning & Extension (SMILE), which is constituted under the aegis of F & ARD Department to facilitate all trainings of the Department.

Department fodder staff, Milk Union personnel and other agencies involved in the programme will be imparted with one day orientation training before launching the scheme. 2 such orientation training will be organized.

Requirement of Planting Material:

Departmental fodder farms will produce the required quantity of certified planting materials for perennial fodder crops. The root slip requirement is assessed to cover 100 cluster per year covering 300 hectares @ 30,000 root slips/ hectare. Perennial crop need replacement of new root slips in 3rd yr. Similarly, seed requirement is assessed to cover 650 hectares per year @ 40 kg seed/ hectare. The seasonal seed is required every season. The farmers will be assisted only once with the planting materials. They have to purchase / arrange seeds in subsequent years to adopt fodder cultivation. The Department will take necessary measures to ensure the availability of certified fodder seeds by strengthening the fodder seed farms and through registered Seed Growers' Programme.

Year wise requirement of planting materials.

Planting materials / Seeds	2010-11	2011-12	2012-13	2013-14	2014-15
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Perennial root slips in lakh nos	90	180	180	180	270
Seasonal Fodder Seed in Quintals	260	520	520	520	780

Components under the programme

Each cluster will be assisted with two lead demonstration plot with 48 extension fodder production plots covering a total area of 9.5 Ha, 10 silage pit of 200 cft. ten chaff cutter, 50 azola pits, 100 feeding troughs and 10 demonstration for enrichment of crop residues. All the cluster will be trained on fodder production and its utilization.

Level of monitoring & Evaluation:

There will be two level of monitoring i.e. at District level by District Authority and state level by the Directorate. The progress report of the programme will be submitted by field officials to District Offices and the District Authority will submit the consolidated report to Directorate every month for review and suggestion. The Directorate will compile the reports of the District Offices and report to the Govt. in each quarter. The Deputy Director (FD) and the attached technical staff will make field verification of the programme.

Period of implementation:

The programme shall be implemented during 2010-11 to 2014-2015.

Implementation of the programme:

This entire activity will be done by 20 departmental Fodder Officers (FO) each stationed at centrally located around 5 cluster points. These officers will be implementing the programme in association with DCS. The officers will utilize one motor cycle for mobility and provided with Rs 1000/- as fuel contingency on production of their approved tour diary at the end of each month. The officer will be accommodated in one of the suitable office space to be provided by AHD / OMFED in absence of suitable accommodation rented house will be taken for the purpose. Each FO will be responsible for 250 farmer's demonstrations of various interventions. The other supervising officers will be provided with hire vehicle for their supervision work as per the requirement. One or two lead farmer may be attached for the demonstration programme under the guidance

of the FO to execute the field work and will be provided with Rs 500/- towards conveyance charges for close supervision of the demonstration.

Geographical coverage:

The programme will be implemented in the intensive & potential milk production zone of all the Districts focusing on the cluster of available CB animals.

Budget Estimate:

1. **Estimate on Perennial fodder Plot - 1.00 Ha.**

(Hyb. Napier, Humidicola, Signal, Congosignal, Guenae intercropped with legume)

Sl. No	Particulars	Amount in Rs.
I	Cost of seed/planting materials; Perennial Grass root slip 30000Nos & other inputs	9,000.00
II	Intercrop with seasonal legume Rice bean, Cowpea -40 kg (Rs.1000), Berseem - 10Kg (Rs.1500)	2500.00
III	perennial legume Centro, Desmanthus, Stylo guinensis 10 kg	1500.00
IV	Input for production maximization Bio fertilizer PSM & Azospirillum each @ 2 Kg per Hac	240.00
V	Culture for legume crop	70.00
VI	Transportation of inputs to farmer level	1690.00
	Total	15000.00

2. **Estimate for Kharif seasonal fodder crops (Maize, M.P.Chari, Bajra, Cowpea, Rice bean) / Rabi fodder crops. (Oats, Berseem, Chinese cabbage, Rape seed, Bajra) - 1.00 Ha.**

Sl. No	Particulars	Amount in Rs.
I	Cost of planting materials (seed) @ Q1 for Oats & 30 Kgs for rest crops with other inputs	3500.00
II	Input for production maximization Bio fertilizer PSM & Azospirillum each @ 2 Kg per Hac & others	1240.00
III	Cost of seed treating chemical & Bacteria culture	100.00
IV	Transportation on inputs to farmer level	260.00
	TOTAL	5100.00

3. **Estimate for cluster level training per batch of 25 farmers**

Sl. No	Particulars	Amount in Rs.
I	Organizing meeting	100.00
II	Awareness and reference materials @ Rs. 20 per farmer	500.00
III	Training cost @Rs.50.00 per participant and its logistics	1250.00
IV	Unforeseen(Resources person/trainer & transport and documentation of the event)	650.00
	TOTAL	2500.00

4. **Total Financial Outlay of the Project**

Sr. No.	Item of expenditure	Unit cost (Rs. in lakhs)	Total Units	Finan cial	TOTAL
1	Seed/ planting material cost (50 demos under irrigation RS.900/ demo) 3.0 Ha@15000/-	0.45	1000	450	3000Ha
2	Seed/ planting material cost (50 demos under rain fed condition Rs. 660/demo) 6.5Ha @5077/-	0.33	1000	330	6500Ha
3	Inputs for Azolla production (50 demos Rs. 500/demo)	0.25	5000	250	5000
4	Cost of Hand Chaff cutters and transport (10 units/ yr. Rs. 6500 /no.)	0.65	1000	650	10000
5	Feeding troughs (100 units/ yr. Rs. 200 /no.)	0.20	10000	200	100000
6	Cost of demonstration on enrichment of roughages/ ensilage 10demos./ yr. Rs.2500/ demo)	0.25	1000	250	10000
7	Training	0.20	100	200	25000
8	Training manuals			9.25	
9	Orientation of staff			9.25	
	Input cost for 50 Centers +50 DCS area			2348.5	
10	Monitoring, Evaluation and Contingencies @ 3.5% of total cost			82.5	
	Grant Total (Rs. in lakhs)			2431	

5. **Year wise Fund requirement**

(Rs. In lakhs)

Sr. No.	Item of expenditure	Annual amount (In lakhs)	Phy.	Y1	Y2	Y3	Y4	Y5
1	Seed/ planting material cost (50 demos under irrigation RS.900/ demo) 3.0 Ha@15000/-	0.45	300Ha	45	90	90	90	135
2	Seed/ planting material cost (50 demos under rain fed condition Rs. 660/demo) 6.5Ha @5077/-	0.33	650Ha	33	66	66	66	99
3	Inputs for Azolla production (50 demos Rs. 500/demo)	0.25	500	25	50	50	50	75

4	Cost of Hand Chaff cutters and transport (10 units/ yr. Rs. 6500 /no.)	0.65	1000	65	130	130	130	195
5	Feeding troughs (100 units/ yr. Rs. 200 /no.)	0.20	10000	20	40	40	40	60
6	Cost of demonstration on enrichment of roughages (10demos./yr.Rs.2500/demo)	0.25	1000	25	50	50	50	75
7	Training	0.20	100	20	40	40	40	60
8	Training manuals			0.25	2	2	2	3
9	Orientation of staff			0.25	2	2	2	3
10	Input Cost for 50 CDCs +50 DCS area	2.29		233.5	470	470	470	705
11	Monitoring, Evaluation and Contingencies @ 5% of total cost			7.5	15	15	15	30
12	Grant Total			241	485	485	485	735

i. **Estimate for Printing and distribution of Trainer's manual, reference handout**

The Wide publicity regarding the fodder demonstration programme should be arranged. Leaflets, Posters, booklets in local language to be supplied to dairy farmers in intensive zones along with mass media programme. The training materials like Training manual and required reference materials will be supplied to each trainer.

The expenditure towards development, Printing of Trainer's manual & reference handout will be Rs. 9, 25,000/- for farmers and 200 trainer (lead farmer) during project period.

ii. **Estimate for Evaluation, Monitoring, Studies & documentation of learning.**

For evaluation, monitoring, studies and documentation of the programme 2.5% of the total project cost may be provided. This may be taken up by an independent organization outside the departmental structure.

Estimate for contingencies & programme implementation.

1% of the project cost is to be provided to meet the contingencies for implementation of the programme.

Year wise achievement in area

(In Hcs /units)

Activities	2010-11	2011-12	2012-13	2013-14	2014-15	Total
Seed/ planting material cost (50 demos under irrigation RS.900/ demo) 3.0 Ha@15000/-	300	600	600	600	900	3000
Seed/ planting material cost (50 demos under rain fed condition Rs. 660/demo) 6.5Ha @5077/-	650	1300	1300	1300	1950	6500

Field level training to farmers at cluster level @ 8 training/cluster	100	200	200	200	300	25 x 1000
Ensiling in cluster with chaff cutter & silopit(1 pit per cluster)	1000	2000	2000	2000	3000	10000
Orientation of Fodder staff/MPCS personnel in batches	100	200	200	200	300	1000
Printing of trainer's Manual	100	0	0	0	0	25000
Development of training material	200	0	200	0	0	400
Lead Farmer training at District/Milk Union level in batches	20	40	40	40	60	200

RKVY financial expenditure vrs physical achievements during 2010 – 11

Sr. No.	Item of expenditure	Annual amount (In lakhs)	Phy.	Y1	Y1 Other agency	Dept, Fd Wing
1	Seed/ planting material cost (50 demos under irrigation RS.900/demo) 3.0 Ha@15000/-	0.45	300Ha	45	22.5	22.5
2	Seed/ planting material cost (50 demos under rain fed condition Rs. 660/demo) 6.5Ha @5077/-	0.33	650Ha	33	16.5	16.5
3	Inputs for Azolla production (50 demos Rs. 500/demo)	0.25	500	25	12.5	12.5
4	Cost of Hand Chaff cutters and transport (10 units/ yr. Rs. 6500 /no.)	0.65	1000	65	32.5	32.5
5	Feeding troughs (100 units/ yr. Rs. 200 /no.)	0.20	10000	20	10	10
6	Cost of demonstration on enrichment of roughages (10 demos./yr.Rs.2500/demo)	0.25	1000	25	12.5	12.5
7	Training	0.20	100	20	0	20
8	Training manuals			0.25	0	0.25
9	Orientation of staff			0.25	0	0.25
Input Cost for 50 Centers +50 DCS area		2.29		233.5	106.50	127
Monitoring, Evaluation and Contingencies @ 3.5% of total cost				7.5	0	7.5
Grant Total Fodd.Dev.Component 2010-11				241	106.50	134.5

Output

The Scheme would create a “Model of Supporting Fodder Production” to Dairy farmers by integrating education, demonstration, fodder crop management, feeding management, ensiling of green fodder and nutrient balancing to make more efficient feeding of productive livestock. This would make dairy farming a viable and economic activity in the state.

Sl No	Particulars	Output by end of project period
1	Perennial Fodder cultivation	3000hectars
2	Seasonal Demonstration	6500 Hectors
3	Silopits (200cft each in cluster)	10000 pits
4	Hand chaff cutter	10000 nos

5	Training of Lead Farmers	200
6	Training of farmers on fodder cultivation and utilization technology	50000
7	Addl. Green fodder@ 150 MTs / Ha (perennial) production in TMTs	450 TMT/yr.
8	Addl. Green fodder@ 30MTs/Ha (seasonal) production in TMTs	195 TMT/yr.
9	CB animals to be benefited	64000/yr.

Physical and Financial output

Y1 Fina.	Y2	Y3	Y4	Y5	TOTAL Phy.,
45	90	90	90	135	3000Ha
33	66	66	66	99	6500Ha
25	50	50	50	75	5000
65	130	130	130	195	10000
20	40	40	40	60	100000
25	50	50	50	75	10000
20	40	40	40	60	1000
0.25	2	2	2	3	
0.25	2	2	2	3	
229.5	462	462	462	693	
7.5	15	15	15	42	
241	485	485	485	735	2431

This year 262 Qtls. of fodder seed will be distributed among the famers' under seed multiplication programme which will cover 2000 Acres. of land.