



GOVERNMENT OF ODISHA

DEPARTMENT OF AGRICULTURE AND FARMERS'EMPOWERMENT

**PROJECT PROPOSAL FOR DEVELOPMENT OF
FRUIT NURSERY KALIKAPRASAD FARM OF
JASHIPUR BLOCK, MAYURBHANJ, ODISHA**

SUBMITTED BY:

**DEPUTY DIRECTOR OF HORTICULTURE,
MAYURBHANJ, BARIPDA**

THROUGH

**DIRECTOR OF HORTICULTURE,
ODISHA, BHUBANESWAR.**

PROJECT SUMMARY

Name of the Projcet :- **Development of Kalikaprasad Farm,
Block-Jashipur, Dist.-Mayurbhanj.**

**Name and Address
of the executants** :- **Asst. Director of Horticulture, Panchpir, Karanjia.**

Proposed Work :-

1. Construction of masonry Boundary wall.
2. Construction of Godown.
3. Development of internal road.
4. Repairing of existing staff quarters.
5. Electrification to the Farm & Installation of 25 KVA. Transformer/ 10KVA solar power with Inverter back up
6. Construction of poly house tubular (1000sqm)
7. Construction of graft hardening structure (Tubular Flat type) (1000sqm)
8. Bore well with Solar Energistation.

Proposed Site :- Kalikaprasad Fruit Farm .
Village- Kalikaprasad
G.P.- Dhalabani.
Block- Jashipur.

Source of fund :- **Rastriya Krishi Vikkash Yojana.**

Year of Execution :- **2017-18 to 2019-20**

Year	Amount in Lakh
2017-18	50.00
2018-19	200.00
2019-20	155.50
Total	405.50

Total Project Cost :- **405.50 Lakhs**

1. Background / Context:-

Horticulture is now considered a key area for diversification within the Indian Agricultural sector owing to its gaining commercial importance. The present scenario of depleting water and energy resources is generating interest in horticulture considering the possibility of converting arid lands into horticulture fields.

Horticulture forms an integral and important component in the economy of a nation, Horticultural crops constitute a significant segment of the total agricultural production of a country, The importance of horticulture can be substantiated by its benefits like high returns per unit area, best utilization of waste land, provision of raw material for industries, whole engagement by a grower/ labour, better use of undulating lands and stabilization of woman's empowering by providing employment. Flower harvesting, nursery maintenance seed production and tissue culture, propagation of fruits and flowers are highly remunerative employment option for women in rural areas.

The National goal for achieving 4% growth in Agriculture can be achieved through the major contribution in growth from horticulture. Quality planting material (QPM) is the key input for successful Crop-production both in terms of quality & quantity. To translate that challenge into achievement, huge quantity of QPM is on high demands of requirement. To meet such high-demands; production of QPM in an assured & reliable mode need to be planned in the arena of Public-sector in particular. On development of the existing infrastructure of Kalikaprasad Farm, Jashipur the produce in shape of Crop-production & QPM production could be augmented profitably & objectively.

The Kalika Prasad Progeny Orchard was established during the year 1971-72. It has a geographical area of 24.58Ha. It is situated near the foot hills of Similipal biosphere reserve in the village Kalikaprasad, GP-Dhalabani, Block-Jashipur of Mayurbhanj District. There is an all weather road from Jashipur to the farm. The soil type of the orchard is sandy loam. The Plantation area of the farm is 18.08Ha. The main crop in the Orchard is Mango & Litchi.

A. Basic Information

(a) Total Area - 24.58 Ha.

(b) Plantation Area- 18.08 Ha.

B. Available infrastructures in the farm is as follows.

I. Building and other Infrastructure

- Office Cum godown-700Sqft-1No (Damaged)
- Staff Quarters- 840sqft each-3Nos(Damaged)
- Existing moorum road-1000Rmt.
- Barbed wire fencing (damaged)-1700Rmt.

Besides these is a Nursery area of 1.50Ac in which the QPM production is being taken up. The supporting infrastructures for the nursery and Orchards available are;

- Borewell-1No.
- Generator set-1No.(Broken condition)
- Pipe line for river lift-50Mts.
- Shade Net house (MS Angle)-1No (60sqm) (Damaged)
- Poly house (GI Pipe) 1No(100Sqm) (Damaged)
- Power Tiller-1No.(Break down Condition)

II. Mother Plants available:

Mother Plants available:						
SL.No	Name of the Crop	Variety	Age	Area(in Ha)	Nos.	Remarks
1	Mango	Neelam	45	0.95	95	
2		Neelam	11	0.5	200	
3		Neelam	7	0.27	109	
4		Heamsagar	45	2	200	
5		Heamsagar	11	0.26	108	
6		Heamsagar	7	0.25	200	
7		Godabari	45	1.05	105	
8		Godabari	7	0.2	87	
9		Baiganpali	45	1.45	145	
10		Baiganpali	11	0.12	45	
11		Baiganpali	7	0.18	55	
12		Sadaprasad	45	0.55	55	
13		Sadaprasad	11	0.25	100	
14		Sadaprasad	7	0.25	99	
15		Sundari	45	0.5	50	
16		Sundari	11	0.15	59	
17		Sundari	7	0.18	55	
18		Latsundari	45	0.48	48	

19		Latsundari	11	0.18	70	
20		Latsundari	7	0.17	65	
21		Langra	45	1.37	137	
22		Langra	11	0.24	93	
23		Langra	7	0.075	30	
24		Amrapali	11	0.063	25	
25		Amrapali	7	0.067	25	
26	Litchi	Muzafurpur	45	0.38	38	
27	Guava	seed less	45	0.29	29	
28		Banaras	45	3.99	399	
29		L 49	45	0.72	72	
			Total	17.135	2798	

PROPOSED REVENUE GENERATION FROM QPM PRODUCTION(Mango)

Year wise QPM production					Year wise expenditure on QPM production				
		19-20	20-21	21-22			19-20	20-21	21-22
		50000	60000	80000			900000	1080000	1440000

Year wise total sales proceeds on sale of QPM					Net income from QPM Production				
		19-20	20-21	21-22			19-20	20-21	21-22
		1200000	1440000	1920000			300000	360000	480000

N.B.- The expenditure to be incurred per graft has been calculated @ Rs.18/-
The sales proceeds have been calculated @ Rs.24.00/- per graft.

2. Problems to be addressed

As the orchard is situated Kalikaprasad, GP-Dhalabani, Block-Jashipur of Mayurbhanj District. Entry of wild animals like elephant, bear, cattle damaging mother plants and QPM is very common to the farm. Sometimes domestic animals like cows, goats and calves enter inside the farm from the nearby villages. Besides, during summer local people set fire in the Jungle which engulfs the orchard causing lots of damage to the farm properties.

3. Aim and Objective

The proposal for Development of Kalikaprasad farm, Jashipur, Mayurbhanj is with following objective.

- i. To develop the farm as a center of model Horticultural activities in the district.
- ii. To disseminate advanced technologies up to the door step of farmers of the district.
- iii. To create new avenues for QPM production of different fruit plants, hybrid vegetables and flower seedlings as per requirement of public.
- iv. To enhance the capacity building and skill development of the farmers and entrepreneurs.
- v. To make the farm profitable through farm-produce and production of QPM.
- vi. To create a congenial-atmosphere for discharge of diligent-duty.
- vii. To protect the farm and mother plants by construction of compound wall.
- viii. To increase the farm revenue receipts.
- ix. To provide employment to the rural labourers and to discourage migration.

4. Strategy

The following works will be done for improvement of the farm.

Sl. No.	Items	Unit	Qty.
1	Construction of Boundary wall	Rmt	4000
3	Electrification to the Farm- Electrification to the farm 3 phase with 25KVA transformer & single phase electric line with poles./Solar power unit of 10KVA capacity with inverter battery back up	Nos.	1
4	Repair of existing poly house of 100 sqm.	Sqm	100
5	Repair of existing shadenet house of 100 sqm.	Sqm	100
6	Provision of Power Trailer with trailer & rotavator	Nos	1
7	Provision of power sprayer & other small implements	Nos	2
8	Construction of one new godown	Nos	1(1500sft)
9	Development of internal road 500rmt with drain (C.C.	Rmt	500

	road)		
10	Development of internal road 1500 morum road.	Rmt	1500
11	Masonry Boundary wall around the Nursery & mother block (Part-2)	Rmt	2200
12	Bore well with solar energisation	Nos	1
13	One over head tank with 500 rmt pipe line	Rmt	500
14	One new poly house (Tubular) of 1000 sqmt	Sqm	1000
15	Graft Hardening structure(Tubular Flat) 1000sqm	Sqm	1000
16	Bed preparation for grafting variety wise including polythene laying , tagging, board fixing etc.	Sqm	1000
17	Rejuvenation old orchard 200nos.	Nos	200

5. Target Beneficiaries

- As envisaged the targeted beneficiaries are farmers, young entrepreneurs, KVK scientists as well as the students of educational institutions.
- The quality planting materials so produced will cater the need of the local farmers.

6. Management :

The Farm is under the control of Asst. Director of Horticulture, Panchpir, Karanjia and is maintained by efficient skilled manpower. The revenue generated by selling the quality planting materials (QPM) is utilized for making the farm sustainable. The farm after development can be managed with existing manpower.

Staff Position:- Horticulture Extension Worker 1No. Gardener 1 No.

7. Finance

Sl. No.	Items	Unit	Qty.	Rate(Rs)	Total cost in Lakhs.	Norms Adopted
1	Construction of Boundary wall	Rmt	4000	5000	200.00	PWD
2	Electrification to the Farm- Electrification to the farm 3 phase with 25KVA transformer & single phase electric line with poles./Solar power unit of 10KVA capacity with inverter battery back up	Nos.	1	1500000	15.00	Electricity Department
3	Repair of existing poly house of 100 sqm.	Sqm	100	500	0.50	MIDH
4	Repair of existing shadenet house of 100 sqm.	Sqm	100	400	0.40	MIDH
5	Provision of Power Trailer with trailer & rotavator	Nos	1	500000	5.00	Agriculture
6	Provision of power sprayer & other small implements	Nos	2	40000	0.40	Agriculture
7	Construction of one new godown	Nos	1(1500sft)	1200/sft	18.00	PWD
8	Development of internal road 500rmt with drain (C.C. road)	Rmt	500	2000/rmt	10.00	PWD
9	Development of internal road 1500 morum road.	Rmt	1500	1000/rmt	15.00	PWD
10	Masonry Boundary wall around the Nursery & mother block (Part-2)	Rmt	2200	5000	110.00	PWD
11	Bore well with solar energisation	Nos	1	500000	5.00	Agriculture
12	One over head tank with 500 rmt pipe line	Rmt	500	400000	4.00	PWD
13	One new poly house (Tubular) of 1000 sqmt	Sqm	1000	1060	10.60	MIDH
14	Graft Hardening structure(Tubular Flat) 1000sqm	Sqm	1000	700	7.00	MIDH
15	Bed preparation for grafting variety wise including polythene laying, tagging, board fixing etc.	Sqm	1000	200	2.00	PWD / DHO
16	Rejuvenation old orchard 200nos.	Nos	200	300	0.60	MIDH
17	Misc. & Unforeseen Items				2.00	
	G.Total				405.5	

8. Time Line :

Year	Amount
2017-18	50
2018-19	200
2019-20	155.5
Total	405.5

ADH Konaika

Asst. Agriculture Engineer
Office of the Dy. Director
of Horticulture, Baripada

Deputy Director of
Horticulture, Mayurbhanj
Baripada

9. Cost Benefit Analysis:

Infrastructure development will help in increasing the QPM production capacity of the farm. The farm can be protected from damage / loss due to forest fire, stray cattle & wild animal menace. Increase in farm income out of QPM production as well as production of fruits. There will be significant improvement in Horticulture Sector in the area as well as increase in employment generation from the nearby villages.

Different quality planting materials produced will be sold to the farmers as per approved cost norm. Year wise tentative graft production and sale proceeds will be as follows;

A. Existing production of QPM, Expenditure, Sale proceed and net profit.

Sl.No	Name of the QPM produced	Qty. produced during 2016-17	Expenditure (in Lakh)	Sell Proceed	Net Profit
1	Mango	40000	5.2	Not sold	
2	Litchi	3000	0.03		
3	Guava	3000	0.15		

B. Income from Auction of Fruits in the Farm 2016-17 :

Year	Amount
2014-15	1.2lakhs
2015-16	0.5lakhs
2016-17	2.0lakhs

C. Other Income please specify :

D. Proposed production of QPM, Expenditure, Sale proceed and net profit after execution of the project.

Year	Nos. of graft to be produce	Expenditure @ Rs. 18/graft (in Lakh Rs)	Sell proceed @ Rs. 24/graft (in Lakh Rs)	Net Profit (in Lakh Rs)
2019-20	50000	9.0	12.0	3.0
2020-21	60000	10.8	14.4	3.6
2021-22	80000	14.4	19.2	4.8

10. Risk Analysis

- Unavailability of skilled and unskilled laborers may affect during implementation. This can be overcome by providing minimum amenities and incentives to them. Local JE / AE of the block would be requested to guide for the civil works. NABARD / OREDA would be contacted for installation of solar pump.

b. Legal / Contractual Risks

Contractual labourers shall submit undertaking to avoid claims beyond their term of engagement.

c. Environmental Risks

Insurance to be made against the Environmental Risks.

d. Project Management Risks

Any risk on management shall be monitored by the Director of Horticulture, Odisha, Bhubaneswar.

11. Outcomes


The QPM produced will cater the need of the area. Farmers of the area will be educated in the area of new development in horticulture. Wage employment can be created regularly which will reduce migration of laborers. There will be increase in generating government revenue. It will act as demonstration center for the farmers.


12. Evaluation


Directorate of Horticulture, Odisha, Bhubaneswar will monitor the project from time to time. It will also be evaluated by the RKVY Cell of the Government. Success of scheme deliverables / outcomes shall be evaluated by the third party i.e. any other body directed / instructed by Govt.

Check list

- a. Funds available under other schemes of the State/ Govt. of India for the proposed projects have been accessed and utilized before it is proposed under RKVY.
- b. There will be no duplication or overlapping of assistance/ area coverage through other State/ Central Govt. Schemes.
- c. The funds under the project are not proposed as additional or top-up subsidy to other ongoing schemes/programme of State/ Central Govt.
- d. DPR includes contingency.


Asst. Director of Horticulture,
Panchpir, Karanjia


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