



GOVERNMENT OF ODISHA
Department of Agriculture & Farmers Empowerment

**Project proposal for development of High Density,
Progeny Orchard, Podadiha Farm, Rairangpur**

Submitted By:
Dy. Director of Horticulture,
Mayurbhanj

Through
Director of Horticulture,
Odisha , Bhubaneswar

PROJECT SUMMARY

Name of the Project:- Development of HDPO, Podadiha Farm ,
Rairangpur, Mayurbhanj.

Name and Address
Of the executants :- Assistant Director of Horticulture ,
Bamanghaty , Rairangpur

Proposed Work :-

Sl No	Items	Unit	Qty.	Total Cost in (Lakhs)	Cost Norm
1	Land Development	Ac.	1	10.00	PWD
2	Const. of Masonry Compound Wall	RMT	1035	51.75	PWD
3	Const. of Murum Road (width 4MT x Height 0.3Mt.) with Brick Masonry drain	RMT	475	9.50	PWD
4	Construction of Poly House	Sqm	500	5.3	MIDH
5	Electrification to the farm & installation of 25KVA Transformer / 10KVA Solar power with inverter back up	Nos	1	10.00	Electricity Department
6	Const. of Godown (60ft x 12ft.)	Sqft.	720	9.72	PWD
7	Renovation of Farm Pond and Const. of earthen bund	1	1	1.5	PWD
8	Bore Well with Solar Energy	Nos	1	7.00	Agriculture
9	Conts.of Graft hardening Structure	Sqmt	500	3.00	MIDH
10.	Cont. of overhead tank with pipeline	1	1	4.00	PWD
11	Misc. & Unforeseen items	LS		1.11	
				112.88	

Proposed Site :- High Density Progeny Orchard ,
Podadiha Farm , Rairangpur , Mayurbhanj

Source of fund :- Rastriya Krishi Vikash Yojana

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

Total Project Cost :- **Rs. 112.88 Lakhs**

Year	Amount
2017-18	12.00
2018-19	50.00
2019-20	50.88
Total	112.88

1. Context and Background

In Pre-Independent India Horticulture was almost a pleasantry of elite society. After independence it has emerged as the core –Sector in Agriculture of Late it has transformed as a credible sector for productivity, employment generation & export-promotion. Domestic demand coupled with the Overseas –market has augmented the growing economic importance of horticultural crops especially fruits, vegetables & flowers.

The domain of domestic demand is influenced by the boom in income; population – growth, Changing Consumption –pattern & growing awareness for better nutrition.

Currently Horticulture – sector has emerged as a Potential – player in the National economy , contributing

30 % to G.D.P in Agriculture as well as a means of diversification in overall development of Agriculture. The contribution of Agriculture to NSDP in Odisha has declined significantly from 64% in 1951 to around 28 % in 2005 , whereas the workforce engaged in agriculture has remained relatively unchanged(57%) . Horticulture has brought improvement in the economic – standard of general – farmers . Availability of fruits as seasonal – produce has been transformed as year – round – produce , with visible impact of increased per – capita consumption of fruits & vegetables . Due to its typical characteristics , Horticulture – sector has been playing a significant –role in women – empowerment & employment – opportunity through cultivation of different Horticultural Crops.

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 quality of QPM are 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 HDPO Podadiha Farm , Rairangpur , Mayurbhanj the produce in shape of crop – Production & QPM Production could be augmented profitably & objectively.

The projects is feasible as activities is taken up in the Govt. Horticulture Farm and is located adjacent to N.H-49 Near Rairangpur .

A. Basic Information

The farm is under the administrative –control of Asst. Director of Horticulture ,Bamanghaty , Rairangpur since 1980-81 stretching over an area of 3.0 Hectare. The category of land was found to be as Gachar. The Tahasildar , Rairangpur has been moved for conversion and alienation of the entire land of 3.0 Hectare . The Farm has ample scope for increasing the production capacity with additional plantation area & enhancement of other activities.

B. Present Status

- a) Total area-3.0 ha.
- b) Plantation area -2.16 ha.

C. Details of Infrastructure available

a. Existing Infrastructures

- i) One no of farm pond (Required renovation)
- ii) 2 no of staff quarters (Required repairing)

b. Mother Plants

- i. Mango(Local)- 30 nos
- ii. Mango(Elite)- 710 nos
- iii. Litchi(Muzafferpur)-8 nos
- iv. Guava(Allahabadsafed)- 10 nos
- v. Coconut (East- coast tall)- 3 nos
- vi. Cashew (V-4)-12 nos

PROPOSED REVENUE GENERATION FROM QPM PRODUCTION(Mango)

Year wise QPM production					Year wise expenditure on QPM production				
20-21	21-22	22-23			20-21	21-22	22-23		
50000	60000	80000			900000	1080000	1440000		

Year wise total sales proceeds on sale of QPM					Net income from QPM Production				
20-21	21-22	22-23			20-21	21-22	22-23		
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/- per graft.

2 . Problems to be addressed

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 HDPO, Podadiha farm , Rairangpur , Mayurbhanj is with Following Objectives .

- i. To Develop the Farm as a centre of model Horticultural activities in the Subdivision.
- ii. To disseminate advanced technologies up to the door step of farmers of the sub division .
- iii. To create new avenues for QPM production of different fruit plants , hybrid vegetable and flower seedlings as per requirement of the 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.

4. Strategy:

The following activities are proposed to strengthening the Farm.

Sl No	Items	Unit	Qty.
1	Land Development	Ac.	1
2	Const. of Masonry Compound Wall	RMT	1035
3	Const. of Murum Road (width 4MT x Height 0.3Mt.) with Brick Masonry drain	RMT	475
4	Construction of Poly House	Sqm	500
5	Electrification to the farm & installation of 25KVA Transformer / 10KVA Solar power with inverter back up	Nos	1
6	Const. of Godown (60ft x 12ft.)	Sqft.	720
7	Renovation of Farm Pond and Const. of earthen bund	1	1
8	Bore Well with Solar Energy	Nos	1
9	Conts.of Graft hardening Structure	Sqmt	500
10.	Cont. of overhead tank with pipeline	1	1
11	Misc. & Unforeseen items	LS	

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 Assistant Director of Horticulture , Bamanghaty , Rairangpur , Mayurbhanj and is maintained by one Gardener. The revenue is generated by selling the quality planting materials(QPM) & for sell of fruits. For making the farm sustainable. The farm after development can be managed with existing manpower.

Staff Position: Horticulture Overseer 1 No., Gardener: 1 No.

7. Finance

Sl No	Items	Unit	Qty.	Rate (Rs)	Total Cost in (Lakhs)	Cost Norm
1	Land Development	Ac.	1	1000000	10.00	PWD
2	Const. of Masonry Compound Wall	RMT	1035	5000	51.75	PWD
3	Const. of Murum Road (width 4MT x Height 0.3Mt.) with Brick Masonry drain	RMT	475	2000	9.50	PWD
4	Construction of Poly House	Sqm	500	1060	5.3	MIDH
5	Electrification to the farm & installation of 25KVA Transformer / 10KVA Solar power with inverter back up	Nos	1	1000000	10.00	Electricity Department
6	Const. of Godown (60ft x 12ft.)	Sqft.	720	1350	9.72	PWD
7	Renovation of Farm Pond and Const. of earthen bund	l	1	150000	1.5	PWD
8	Bore Well with Solar Energy	Nos	1	700000	7.00	Agriculture
9	Conts. of Graft hardening Structure	Sqmt	500	600	3.00	MIDH
10.	Cont. of overhead tank with pipeline	l	1	400000	4.00	PWD
11	Misc. & Unforeseen items	LS			1.11	
Total					112.88	

(Rupees One Crore Twelve Lakh and Eighty Eight thousand) Only


N.B: The inter componential changes may be made as per requirement.


8. Time Frame

Year	Amount
2017-18	12.00
2018-19	50.00
2019-20	50.88
Total	112.88

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.


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Raerangpur


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Deputy Director of
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The QPM production will increase in double under fruit crops and 2 lakhs of hybrid vegetable seedlings will be produced annually which will generate revenue . It will also act as a training centre to provide technical knowledge to the farmers and entrepreneurs to grow vegetables and fruit crops in scientific manner. Around 20,000 Papaya & 10,000 Drum Stick seedlings will be raised annually. The revenue receipt would be increase 20% per annum.

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.

In Lakh

Sl.No	Name of the QPM produced	Qty. produced during 2016-17	Expenditure	Sell Proceed	Net Profit
1	Mango Graft	15000	1.74674	3.82500	2.07826

B. Other Income please specify :Gate Sale of Mango Fruits

Year	Amount (Rs.)
2015-16	9500
2016-17	30000

C. 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)
2020-21	50000	9.00	12.00	3.00
2021-22	60000	10.8	14.40	3.60
2022-23	80000	14.4	19.20	4.80

9. Risk Analysis :

- a. 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

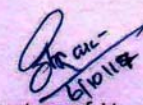
Directorate of Horticulture, Odisha, Bhubaneswar will monitor the project from time to time. It will also be evaluated by the RKVY Cell of the Government. Success of scheme deliverables / outcomes shall be evaluated by the third party i.e. any other body directed / instructed by Govt.

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.


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