

**PROPOSED PROJECT PLAN
FOR DEVELOPMENT OF
SUB STATION ORCHARD,
HARISHANKAR**

Under RKVY for the Year

2017-18 to 2019-20

Project Cost: Rs.147.09 Lakh.

Submitted by:

Asst. Director of Horticulture, Patnagarh

**Directorate of Horticulture
Odisha, Bhubaneswar**

EXECUTIVE SUMMARY

Name of the Project	Infrastructure Development of Sub Station Orchard, Harishankar		
Implementing Agency	Directorate of Horticulture, Odisha, Bhubaneswar		
Name and address of executants	Assistant Director of Horticulture, Patnagarh		
Proposed Work	Qty.	Cost in Lakh Rs.	Norm followed
1. Construction of Boundary wall with RRC pillar of an Av.ht. 1.8m	1980 RMT	89.1	PWD
2. Construction of internal RCC Road of 4 m width	500 RMT	38.00	PWD
3. Installation of Transformer	One	1.00	Electric Deptt.
4. Installation of Solar Pump	One	3.188	OREDA/NABARD
5. Construction of Office cum Training Hall	One	10.00	PWD
6. Construction of Pump House with electrification	One	0.50	PWD
7. Installation of Drip Irrigation System	2 Ha	0.651	PMKSY
8. Repairing of Poly House	One	1.80	DH(O)
9. Installation of Mini Sprinkler, Fogger at QPM production centre	Ls.	0.50	PMKSY
10. Purchase of Farm Implements	Ls.	0.50	Agriculture
11. Cleaning wild bushes, uprooting stumps	Ls.	0.40	PWD / DHO
Total		145.639	
Contingencies (1%)		1.451	
Total		147.09	

(One Crore Forty Seven Lakh Nine thousand) only.

Source of fund : RKVY

Project cost : Rs. 147.09 Lakh

Project duration : 3 years

Year	Amount
2017-18	50.00
2018-19	50.00
2019-20	47.09
Total	147.09

1. BACK GROUND:

Substation orchard, Harishankar in Khaprakhol Block is situated at 3 K.m. away from Harishankar temple which is a famous tourist place of Odisha. Every year more than 40,000 tourists come from different places of Odisha and outside the state. The orchard wears different flora species like mango, litchi, oranges, papaya and K.Lime. Horticulture Department provide wage employment to the local poor people of the nearby area by engaging them year round in different activities of the farm. It provides healthy and aesthetic value to the people as well as the environment. Above all this will be a model farm for the area. The overall development of the farm as proposed will not only increase the QPM production into many folds but also make the farm as a **Technology Dissemination Centre** (Model farm) for educating the farmers during their visit.

a. BASIC INFORMATION:

ii.	Name of the farm / nursery	:	Sub Station Orchard, Harishankar
iii.	Name of the ADH	:	Patnagarh
iv.	Year of establishment	:	1979-80
v.	Mode of acquire of land	:	Site selection committee
vi.	Ownership of land	:	Revenue(under process of transfer)
vii.	Geographical area	:	9.4 Ha
	Village	:	Kuthurla
	G.P.	:	Nandupalla
	Block	:	Khaprakhol
	District	:	Balangir
	Distance from block headquarters	:	13 Km
	Distance from district headquarters	:	85 Km
viii.	Road communication	:	All weather road facility available

b. PRESENT STATUS:

i.	Land use	
a.	Area under orchard (in Ha)	: 9.00 Ha
b.	Area under fallow (in Ha)	: 0.00 Ha
ii.	Length of Periphery (M)	: 1980 RMT
iii.	Length of Road (M)	: 542 M
iv.	Soil type	: Sandy loam

c. INFRASTRUCTURE AVAILABLE:**i. Building**

Type of building	Area(Sqm)	Used / unused	Present condition	Remarks
RCC Building	36' x 21'8"	Used	Not in good condition	No electrification
Asbestos	38' x 21'	Used	Not in good condition	Needs repair

ii. Roads

Type of road	Length(m)	Present condition	Remarks
Non-Morum	542 RMT	Not good	Needs renovation

iii. Irrigation

Item	Existing(No./M/Area)	Present Condition	Remarks
Borewell	3 nos.	2 functional	
Any other source	Nala lift	Functional	
Pipe line	Not available	-	To be
Drip irrigation	3.00Ha	Not functional	To be repaired
Sprinkler	Not available		To be installed

iv. Mother plants available

S.N.	Name of the crop	Variety	Age in Yrs.	Area(Ha)	Nos.	Remarks
1	Mango	Banganpalli	36	0.21	105	
2		Langra	37	0.3	50	
3		Neelum	38	0.12	41	
4		Bombay green	8	0.3	120	
5		Bombay green	7	0.5	200	
6		Kalabanshi	36	0.03	13	
7		Madras Alphanso	36	0.05	19	
8		Amrapalli	8	0.13	50	
9		Amrapalli	7	0.48	195	
10		Yuvraj	36	0.001	1	
11		Baramasi	36	0.007	3	
12		Do.	8	0.125	50	
13		Do.	7	0.1	40	
14		Local	36	0.015	6	
15		Gopalbhog	36	0.065	26	
16		Jahangir	36	0.028	11	
17		Totapuri	36	0.007	3	
18		Malgoa	36	0.22	9	
19		Do.	8	0.2	80	
20		Do.	7	0.137	55	
21		Dusheri	36	0.005	2	
22		Do.	8	0.2	80	
23		Do.	7	0.55	220	
24		Cherukesar	7	0.175	70	
25		Subarnarekha	7	0.1	40	
27	Litchi		23	0.2	32	
28	Orange		29	0.3	36	

v. POLY HOUSE / SHADE NET HOUSE / VERMI COMPOST UNIT

S.N.	Name of infrastructure available	Nos.	Size	Remarks
1	Poly House	1	14M x 6M	Polythene roof & side wall damaged
2	Shade net House	2	25.5M X 14M 11M X 5.5M	Repaired during 17-18
3	Vermi compost unit	1	5M x 2M X 1M	Roof needs repair

vi. Fencing

S.N.	Type	Length	Present condition	Remarks
1	Barbed wire	1980 M	Good	

vii. Machineries and equipments

S.N.	Name of the machinery/Equipment	Nos.	Present condition	Remarks
1	Power tiller	1	Functional	
2	Elec. Pump	2	Functional	

viii. Staff strength

S.N.	Name of the post	Sanctioned	In position	Vacancy
1	Night watch man	1	0	1
2	Attendant	1	0	1

ix.. Electricity :Available

x.. Mango graft production & sale proceeds obtained

S.N.	Year	Name of QPM	Nos. produced	Sale proceeds obtained (Rs in Lakh)
1	2014-15	Mango	10500	2.5052
2	2015-16	Mango	9600	2.304
3	2016-17	Mango	10200	2.601

2. Problems to be addressed:

As the orchard is situated at Nandupala Village of Khaprakhhol Block adjacent to Gandhamardana Hills, entry of wild animals like 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. Aims and Objectives:

- To increase the quality & quantity of planting materials of Mango , Papaya, Drum stick, Kagzi lime etc. to meet the increased demand of the area.
- To protect the farm and mother plants by construction of compound wall.
- To increase the farm revenue receipts.
- To provide employment to the rural labourers and to discourage migration.

4. Strategy:

- a. The Farm can be protected from stray cattle, wild animal as well as forest fire by construction of boundary wall of 1980 rmt. with an amount of Rs.89.10 Lakhs.
- b. For construction of RCC road of 4mtr width, 500 mtr length in the farm an amount of Rs.38.00 Lakh, has been proposed.
- c. One old electric transformer has been installed for the entire farm which very often requires repair for which a new transformer is proposed to be installed with an approximate cost of Rs.1.00 Lakh.
- d. To ensure irrigation to the farm during power failure one solar pump with an approx. cost of Rs. 3.188 Lakh has been proposed.
- e. To make the farm demonstrative for the farmers, following works are also suggested to be taken up;
 - (i) Installation of drip irrigation system - Rs.0.651 Lakh
 - (ii) Repairing of poly house - Rs.1.800 Lakh
 - (iii) Installation of mini sprinkler, fogger at QPM production Centre - Rs.0.50 Lakh
 - (iv) Purchase of farm implements - Rs.0.50 Lakh
 - v) Construction of Office cum-Training Hall - Rs.10.00 lakh
 - vi) Construction of pump house - Rs. 0.50 lakh
 - vii) Cleaning bushes & up rooting stumps - Rs. 0.40 lakh

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 will be supervised by an Assistant Horticulture Officer stationed at Khaprakhhol block headquarter with the assistance of one Horticulture Overseer, one Horticulture Extension Worker & a Gardener.

7. Finance:

All the infrastructure development of the farm will be taken up under R.K.V.Y. and the annual management; day to day works will be met out of State Plan scheme. Besides, 25% of revenue generated will be utilized for infrastructure development of the farm when ever required.

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Total		145.639	
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N.B. : Inter componential changes can be made as per requirement.

8. Time Frame:

The Proposed Project will be taken up during 2017-18 to 2019-20.

Year	Amount
2017-18	50.00
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9. Cost Benefit Analysis:

Infrastructure development at Sub Station Orchard Harishankar 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 for 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.

Rs. In Lakh

Sl.No	Name of the QPM produced	Qty. produced during 2016-17	Expenditure	Sale Proceed	Net Profit
1	Mango	10200	1.8564	2.601	0.7446

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

Year	Amount (Rs in Lakh)
2014-15	0.14
2015-16	0.12051
2016-17	0.71

C. Other Income please specify :

D. Proposed production of QPM, Expenditure, Sale proceed and net profit after execution of the project. (in Lakh Rs)

Year	Nos. of graft to be produced	Expenditure @ Rs. 18/graft	Sale proceed @ Rs. 24/graft	Net Profit
2019-20	30000	5.40	7.20	1.80
2020-21	35000	6.30	8.40	2.10
2021-22	40000	7.20	9.60	2.40

10. Risk Analysis:

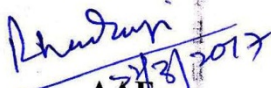
- a. Unavailability of skilled and unskilled laborers may affect during implementation. This can be overcome by providing minimum amenities and incentives to them. Local JE / AE of the block would be requested to guide for the civil works. NABARD / OREDA would be contacted for installation of solar pump.

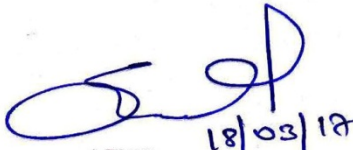
11. Outcomes:

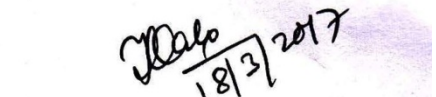
The QPM produced will cater the need of the area. Farmers of the area will be educated in the area of new development in horticulture. Wage employment can be created regularly which will reduce migration of laborers. There will be increase in generating government revenue.

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.


AAE,
Patanagarh


AHO
Patanagarh


Asst. Director of Horticulture
Patanagarh