



**DETAILED PROJECT PROPOSAL**  
**FOR**  
**RENOVATION OF**  
**PROGENY ORCHARD - PAIKMAL**  
**IN**  
**PADAMPUR SUB - DIVISION**  
**OF BARGARH DISTRICT (ODISHA)**

**PREPARED BY:**

**ASSISTANT DIRECTOR OF HORTICULTURE, PADAMPUR**

**PROJECT PROPOSAL AT A GLANCE**  
**(Executive Summary)**

NAME OF THE PROJECT	RENOVATION OF P.O. PAIKMAL
PROPOSED WORK	RENOVATION OF P.O. PAIKMAL
PROJECT AREA	PROJENY ORCHARD, PAIKMAL
PROJECT DURATION	1 YEAR
SOURCE OF THE FUND	RASTRIYA KRUSHI VIKAS YOJNA
PROJECT COST	RS 59,00,000.00
EXECUTING AGENCY	ASSISTANT DIRECTOR OF HORTICULTURE, PADAMPUR

ASSISTANT DIRECTOR OF HORTICULTURE  
PADAMPUR

**PROJECT PROPOSAL FOR RENOVATION OF P.O.**  
**PAIKMAL IN PADAMPUR SUBDIVISION OF**  
**BARGARH DISTRICT**

**CONTEXT & BACKGROUND:**

Odisha is the 10<sup>th</sup> largest and 11<sup>th</sup> populous state accounting for about 5% of the geographical area and 4% of the population of the country. It has about 64 Lac ha i.e. about 40% of the land fit for agriculture. Agriculture provides directly or indirectly employment to about 64% of the total population contributing about 28% of the net state domestic product. Kharif is the main cropping season and Paddy being the principal crop of the state. Food grains constitute about 76% of the gross cropped area and Paddy alone shares about 67% of all the food grain taken together. The average fertilizer consumption in the state is very low (54Kg/ha as against national average of 104 kg/ha. The state has a larger population of SC & ST.

Bargarh District formed on the 1st April 1993 being divided from Sambalpur District. It is one of the illustrious District of Odisha. Bargarh District lies on the western most corner of Odisha between 20 degree 43' to 21 degree 41' north latitude and 82 degree 39' to 83 degree 58' east longitude. The District is surrounded by Chhatisgarh state on the north, Sambalpur District on the east, Balangir and Subarnapur on the south and Nuapada District on the west.

Divided into Bargarh plain, Borasambar and Ambabhona and Lakhanpur, Bargarh District is densely populated. The District covers an area of 5837 sq km consisting total population of 1,478,833 as per 2011 census. Total male population of the District is 748,332 and female population is 730,501. Rural population is 1,242,795 and urban population is 103,541. Total SC population of the District is 260,719 and more than total ST population of 260,691.

As per administrative set ups are implicated, Bargarh is the headquarters of the District. There are two sub divisions in the District, Bargarh and Padampur. Total number of Tahasils is 12 viz. Attabita, Bargarh, Barpali, Bhatli, Bheden, Padampur, Paikmal, Sohella, Bijepur and Gaisilet.

There are 12 CD Blocks in the Bargarh District viz. Ambabhona, Attabira, Bargarh, Barpali, Bhatli, Bheden, Bijepur, Gaisilet, Jharbandh, Padampur, Paikmal and Sohella. Bargarh Municipality is the one Municipality in the District and 3 N.A.Cs are Barpali, Padampur and Attabira. There are total 248 Gram Panchayats and 1208 Revenue villages in the District.

The Bargarh District experiences extreme type of climate with hot and dry summer followed by humid monsoon and chilling winter. The temperature varies between 10 degree

Celsius to 46 degree Celsius. The winter season lasts between November to February. The hot season follows thereafter and continues till the second week of June. The south-west monsoon season is from mid June to the end of September. The average annual rainfall in the District is 1440 mm.

Agriculture acts as the backbone of the economy of the Bargarh District. Most of the indigenous inhabitants in Bargarh District mainly practice crop cultivation. Because of the presence of natural drainage facilities, the District plain supports the growth of large agricultural products and is free from insects and pests.

Padampur Subdivision comes under DPAP area where farmers are mainly depended on rain for their agricultural livelihood. Hence, there is a tremendous scope for horticultural crops. Fruit growing is one of the important and age old practices, practiced in India since ancient times. Cultivation of fruit crops plays an important role in overall status of the mankind and the nation. The standard of living of the people of a country is depending upon the production and per capita consumption of fruits. Fruit growing have more economic advantages.

#### **I. Economic importance:**

- High productivity: High yield per unit area: From a unit area of land more yield is realized from fruit crops than any of the agronomic crops. The average yields of Papaya, Banana and Grapes are 10 to 15 times than that of agronomic crops.
- High net profit: Through, the initial cost of establishment of an orchard is high, it is compensated by higher net profit due to higher productivity or high value of produce.
- Source of raw material for agro based industries: Fruit farming provides raw materials for various agro based industries- canning and preservation (fresh fruits), pharmaceutical industry (Aonla, Papaya, Jamun) Transporting and packaging industries etc.
- Efficient utilization of resources: Growing of fruits being perennial in nature, enables grower to remain engaged throughout the year in farm operations and to utilize fully the resources & assets like machinery, labour, land water for production purpose throughout the year compared to agronomic crops.
- Utilization of waste and barren lands for production: Although, most of the fruits crops require perennial irrigation and good soil for production, there are many fruit crops of hardy in nature, Mango, Ber, Cashew, Custard apple, Aonla, Phalsa, Jamun etc. which are grown on poor shallow, undulated soils considered unsuitable for growing grain/ agronomical crops.
- Foreign exchange: Many fresh fruits, processed products and spices are exported to several countries earning good amount of foreign exchange.

#### **II. Nutritional importance**

- Importance of fruits in human diet is well recognized. Man cannot live on cereals alone.
- Fruits and vegetables are essential for balanced diet and good health.
- Nutritionist advocates 60-85g of fruits and 360 gm.
- Vegetables per capita per day in addition to cereals, pulses, egg etc.

- Fruits and vegetables are good sources of vitamins and minerals without which human body cannot maintain proper health and develop resistance to disease they also contain pectin, cellulose, fats, proteins etc.

### **About Progeny Orchard Paikmal:**

For the development of horticulture in right direction, adequate availability of quality planting material to the farmers is of importance, keeping in view that the Progeny Orchard Paikmal was established for production of quality planting material of specific horticultural crops.

### **Details of P.O. Paikmal:**

**Year of establishment:** 1978

**Area of the Orchard:** 7.3 ha

**Name of the QPM produced:** Mango, Drum Stick, Papaya & Guava etc.

**Optimal production potential:** 30,000.00 per annum

**Additional Feature:** Block Level Training and Extension Centre, Paikmal is also located inside the campus.

### **PROBLEMS TO BE ADDRESSED:**

- IRRIGATION PROBLEM DUE TO DISFUNCT BOREWELL.
- CATTLE MANCE DUE TO BROKEN BARBED WIRE.
- IMPROPER ROAD CONNECTIVITY HELPS LOT OF WOOS DURING TRANSPORTATION OF GRAFTS.
- DUE TO NON AVAILABILITY OF WORKING SHED IT IS DIFFICULT TO ACCOMMODATE THE GRAFTS & LABOURS.
- NON PRUNNING & UN MAINTAINED ORCHARD CAUSES WOOS TO THE WORKING LABOURS.

### **AIM AND OBJECTIVES:**

The main objectives can be summed up as under:

- Therealize the potential of supplying standardized QPM of horticultural crops.
- Commercialization of Hi-tech horticulture in the Sub-division.

- To educate farmers and entrepreneurs in the principle of “Seeing is Believing” through exposure visit inside & outside the state.
- Best utilization of agri-horticultural waste.
- To practice modern farming in a profitable way.
- Development of aesthetic value of the farm & balancing the ecosystem there by increasing the overall profitability of the farm.

## **FEASIBILITY & BASIC INFORMATION OF THE PROJECT:**

### **SWOT ANALYSIS:**

#### **STRENGTH**

- Adequate land resources.
- Proper road connectivity of road to P.O. Paikmal
- Proper Marketing Facilities.
- BLT&E center is also present inside the campus.

#### **WEAKNESS**

- Vast operational area
- Insufficient Man Power for production of QPM & maintenance of the farm.
- Water scarcity due to defunct Borewell.
- Connecting road is very tricky & muddy.
- Cattle menace throughout the year.
- No storage/shed for graft during rainy & summer season.

#### **OPPORTUNITY**

- Land can be used multifariously.
- Model farm can be prepared.

#### **THREAT**

- Monkey Menace
- Die out of grafts & QPM due to water shortage.

### **PRESISE LOCATION:**

**Latitude:**20°53’51” N

**Longitude:**82°49’13” E

## **STRATEGY:**

As Progeny Orchard is one of the oldest & revenue generating farm of Dept. of Horticulture under the jurisdiction of Assistant Director of Horticulture, Padampur. After the implementation of the project the average revenue of the farm will increase by 10-15%. The farmers will also be motivated & trained with modern package of practices including PHM in the BLT&E centre.

## **STRATEGIES:**

- By implementing the project via Tender call it will help to get the desired outcome within a short period & help in harmonizing the PPPartnership.
- Time & Labour Problems will be overcome.
- Also full transparency will be maintained due to e-tender process & proper utilization of government fund.

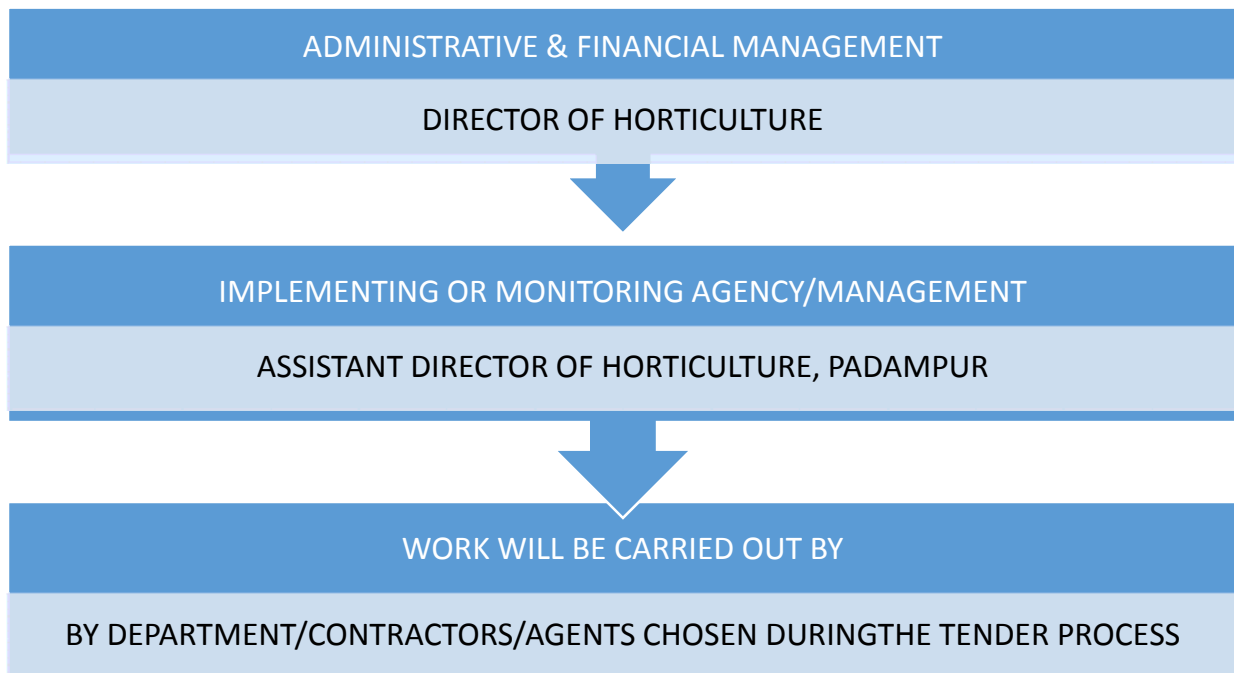
## **Implementing agency:**

The project will be implemented by the Assistant Director of Horticulture, Padampur of Bargarh district.

## **TARGET BENEFICIARIES:**

Production of quality planting material is the sole purpose of P.O.Paikmal so in order of this remodeling will ultimately cater the need of our fellow farmer society & to our department as a whole.

## **MANAGEMENT:**



**ADMINISTRATIVE & FINANCIAL MANAGEMENT –(Directing & Planning)**

- To help in according the administrative & financial approval after proper scrutiny.

**IMPLEMENTING OR MONITORING AGENCY/MANAGEMENT–(Monitoring & Evaluation)**

- To help monitoring the project during all its phases & report return of the same.

**WORK PROCESS -**

- By the Department/contractors/agents chosen during the e-tender process.

**FINANCE:**

The project will come under Infrastructural development of R.K.V.Y.



### **ABSTRACT OF THE PROJECT COST**

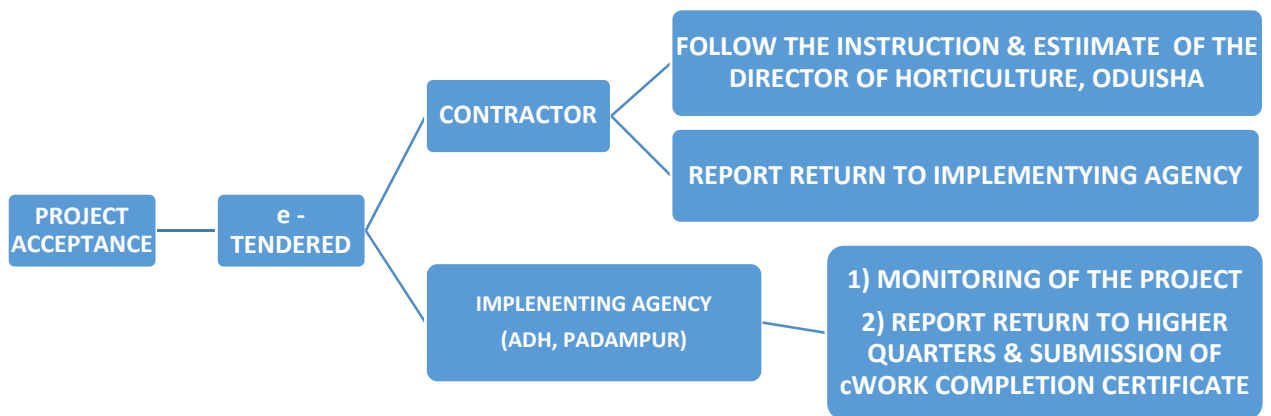
<b>SL. NO.</b>	<b>NAME OF THE ITEM/WORK</b>	<b>AREA/UNIT</b>	<b>ESTIMATED AMOUNT</b>	<b>REMARKS</b>
1	Repair of existing Barbed Wire Farm Boundary	2000 rmt	Rs 2,50,000.00	To be e-tendered
2	Digging of New Borewell	1 Unit	Rs 2,50,000.00	
3	Concrete Road of 10ft Width	1500 rmt	Rs 38,00,000.00	
4	Working Shed	1 Unit	Rs 4,00,000.00	
5	Compound Wall	2000 rmt	Rs 10,00,000.00	
6	Uprooting of stumps & cleaning operation.	7.3 ha	Rs 1,20,000.00	
7	Leveling & filling of undulated land	2.5 ha	Rs 80,000.00	
<b>TOTAL</b>			<b>Rs 59,00,000.00</b>	
<b>Rupees Fifty Nine Lakh Only</b>				

#### **TIME FRAME:**

The project will be for a period of **One Year**.

**Completion Report will be Given by:** A joint committee constituting Collector-cum-District Magistrate's Representative, the head of the implementing agency i.e. Asst. Director of Horticulture, Padampur, Asst. Agriculture Engineer, Assistant Horticulture Officer, Paikmal(Block AHO), Assistant Horticulture Officer (Nearby Block) for completion of the project.

**PERT (Program Evaluation Review & Technique) CHART**



**COST-BENEFIT ANALYSIS:**

As Progeny Orchard is one of the oldest & revenue generating farm of Dept. of Horticulture under the jurisdiction of Assistant Director of Horticulture, Padampur.

**After the implementation of the project the average revenue of the farm will increase by 10-15%.**

**The farmers will also be motivated & trained with modern package of practices including PHM in the BLT&E centre.**

**RISK ANALYSIS:**

Any legal complication will be dealt by the Director of Horticulture, Odisha. As the project will be e-tendered hence all the terms & conditions will be accepted by the contractor beforehand if any violations occur in due course the same will be escalated to higher quarters by the Implementing agency.

**OUTCOMES:**

- Production of standardized QPM materials.
- The farm will be converted to as a 'MODEL FARM'
- Farm will become profitable & revenue generating unit.

**EVALUATION:**

A evaluation team consisting of Assistant Director of Horticulture, Padampur, Assistant Horticulture Officer, Paikmal, Assistant Agriculture Engineer, Bargarh & Farm In-Charge will regularly monitor the project phases & the report will be submitted to higher quarters during concurrent, mid-term & post-project phases & as and when desired by the higher quarters.

**CHECK LIST:**

- Funds available under other schemes of the State/Govt of India for the proposed projects has been accessed and utilized before it is proposed under RKVY.
- There will be no duplication or overlapping of assistant / area coverage through other State/Central Govt. Scheme.
- The funds under the project are not proposed as additional or top-up subsidy to ongoing schemes/programs of State/Central Govt.
- DPRs included contingency.

C/s  
*Prabhat*  
14/2/17  
Asst. Agril. Engineer & A.P.D. (M.I.)  
BARGARH

*[Signature]*  
14/3/17  
ASSISTANT DIRECTOR OF HORTICULTURE  
PADAMPUR

