

**GOVERNMENT OF SINDH  
AGRICULTURE DEPARTMENT**

**(SOCIAL SECTORS)  
AGRICULTURE RESEARCH**



PC-I

**Development of Skill Manpower Particularity in  
Promotion of Flower and Fruit Nurseries.**

**DIRECTOR  
PLANNING & MONITORING CELL  
AGRICULTURE DEPARTMENT**

# PC-1

## (SOCIAL SECTORS) AGRICULTURE RESEARCH

1. **Name of the Project:** **Development of Skill Manpower Particularity in Promotion of Flower and Fruit Nurseries**
2. **Location:**  
• **Indicate name of District/Province.** District Mirpurkhas, Khairpur Province Sindh.
3. **Authorities Responsibilities for:**
- (i). **Sponsoring:** Secretary,  
Agriculture Department,  
Government of Sindh,  
Karachi.
- (ii). **Execution:** Director General,  
Agriculture Research Sindh,  
Tandojam.
- (iii). **Operation & Maintenance:** 1.Horticulturist  
Sindh Horticulture Research Institute,  
Mirpurkhas  
2. Horticulturist  
Date Palm Research Station  
Khairpur
- (iv) **Federal Ministry:** Ministry of Food, Agriculture and Livestock  
(MINFAL)
4. **(a) Plan Provision**
- (i) **If the project is included in the medium term / five years plan specify actual allocation.** Project is included ADP 2008-2009 with an allocation of Rs. 15.000 million.
- (ii) **If not included in the current plant, what warrants its inclusion and how is it now proposed to be accommodated.**
- (iii) **If the project is proposed to be financed out of block provision indicate.**

Total block Provision	Amount committed	Amount proposed for this Project	Balance available
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(b) **Provision in current year PSDP / ADP** **Rs: 15.000 Million**

**5. Project Objectives**

The objectives of the Sector / Sub Sector as indicate in the medium term / five years plan be reproduced. Indicate objectives of the project and sectoral objectives.

- i. To train adult Sons/ Daughters of Farmers Growers for latest Horticulture production for flower and Fruit Nurseries
- ii. To train the Post Harvest Technologies which greatly influence the level of post harvest losses and quality of produce include grading, packing, pre-cooling, storage, transportation, cleaning, curving disease or insect control, waxing and repairing technology.
- iii. To increase the Horticulture Crops production by adoption of new production techniques.
  - a) By the introduction of the new high yielding varieties.
  - b) By Advanced production technologies.
  - c) By Advance plant protection technologies.

**6. Description and justification of the project.**

- (i) Describe the project an indicate existing facilities in the area and justify the establishment of the project.

The farmers have little knowledge to maintain their nurseries due to which the required result could not achieved due to lack of knowledge. The trained manpower will be engaged in Flower and Fruit Farms and will also start nursery for production of better verities of Flower and Fruits.

The Agriculture Department will arrange training

to 640 trainees as per training in Flower & Fruit Nurseries and Post Harvest Technologies, grading, packing, pre-cooling, storage, transportation, cleaning, curving disease or insect control, waxing and repairing technologies.

15 Resource person (Horticulturist) Officer nominated from SHRI, Mirpurkhas and DPRS, Khairpur arrange the training to trainees, they will be paid Rs.8000 per month duration two years.

The training programme consist of two batches, each batch contained 160 trainees out of which 100 trainees will be trained in Mirpurkhas and remaining 60 in Khairpur for period of six months. This programme will be continued for other six months above whole programme will be repeated for second year total persons 640 will be trained in two years, selected from whole province of Sindh below matric and they will be paid Rs.4000 per month per trainees.

- (ii) Provide technical parameters and discuss technology aspect of the project. It is an established fact that many diseases spreads through new nurseries. Which attacks on the young trees/plants or crops. It needs to train the youngsters of the nation to grow, healthy nurseries, to save the plants from diseases. There are some flowers and fruits which can produce more money but still not introduced in the province. The saving of picked fruits and flowers and keeping them fresh is also a technique. By the adaptation of those techniques one can earn more money in the market. In this regard this project is proposed to transfer the developed advanced technologies.

(iii) Provide details of civil works, equipment, machinery and other physical facilities required for the project.	Item	Existing	Required
	Computer with Laser Printer	Nil	1 No.
	Electric Water Cooler	Nil	2 Nos.
	Hand Sprayer	Nil	150 Nos.
	Power Sprayer	Nil	4 Nos.

	Tractor	2 Nos.	needs repair
	Vehicle	1 No.	needs repair
(iv)	Indicate Government issues of the sector relevant of the project and strategy to resolve them.		

7. **Capital cost estimates**

**July 2008**

- (i) Indicate date of estimate of project cost.
- (ii) Basis of determining the capital cost be provided. It includes market survey, schedule rates. Estimation on the basis of previous work done etc.

- (iii) Provide year-wise estimates of Physical activities by main components as per following.

**1<sup>st</sup> year 2008-09**

- i. 15 Resources person will be nominated from Sindh Horticulture Research Institute, Mirpurkhas and Date Palm Research station Khairpur will train to trainees for Pesticide, Post Harvest in Flower & Fruit Nursery Management. They will be paid Rs: 8,000/- per month for two years.
- ii. Advertisement & Publicity.
- iii. 320 trainees will be appointed from 23 districts. The trainees have nominated below Matric for six months training course.
- iv. 75 Hand sprayer will be procurement
- v. 320 kits of field tools will be procurement.
- vi. Seeds, Fertilizer, Pesticide will be procurement.

**2<sup>nd</sup> year 2009-10**

- i) Advertisement & Publicity
- ii) 320 Trainees will be appointed from 23 Districts the trainees have nominated below Matric for six months training course.
- vii. 75 Hand sprayer will be procurement
- viii. 320 kits field tools will be procurement.
- iii) Seeds, Fertilizer, Pesticide will be procurement.

- (iv) Phasing of Capital cost be worked out on the basis of each item of work as stated above and provide information as per following.

S.#	Particulars	1 <sup>st</sup> Year			2 <sup>nd</sup> Year			Total		
		Total	Local	FEC	Total	Local	FEC	Total	Local	FEC
1.	Trainees Stipend Cost	7.680	7.680		7.680	7.680		15.360	15.360	
2.	Training Cost	6.420	6.420		6.420	6.420		12.840	12.840	
3.	Admin: Cost 5%	0.750	0.750		0.750	0.750		1.50	1.50	
	<b>Sub-Total</b>	<b>14.850</b>	<b>14.850</b>		<b>14.850</b>	<b>14.850</b>		<b>29.700</b>	<b>29.700</b>	
4.	Monitoring Cost 1%	0.150	0.150		0.150	0.150		0.300	0.300	
	<b>Grand Total:</b>	<b><u>15.00</u></b>	<b><u>15.00</u></b>		<b><u>15.00</u></b>	<b><u>15.00</u></b>		<b><u>30.000</u></b>	<b><u>30.000</u></b>	

8. **Annual operating cost**  
Item-wise annual operating cost for 5 years and sources of financing.

**As this one is the training program thus there will be no Recurring cost after completion of project.**

9. **Demand supply analysis**

10. **Financial plan**  
**Sources of financing**

**(a) Equity:**

Sponsors own resources

Federal Government

Sponsors own resources

Federal government

Provincial government

Funded by Sindh Government through ADP 2008-09

DFIs/ banks

General public

Foreign equity ( indicate partner agency)

NGO's/beneficiaries

Others

**(a)** Debt

**(b)** Grants along with sources

**(c)** Weighted cost of capital

**11. (a) Project benefits and analysis**

Financial	The Trained below matriculate in flower and fruit nurseries field which may be required by public and private sector in coming days
Social	When the trained person will be hired by the growers they Will pay attention on healthy nurseries and adopt post Harvest technologies. So that we can produce the healthy Flowers and fruits and Vegetables. And the growers will More money.
Environment:	There will be no hazard to the environment. But due to this Project use of pesticide will be decreased through management.



(b) **Project analysis**

**Quantifiable output of the project**

**Unit cost analysis**

**Employment generation (direct and indirect)**

**SKILLED**

**Impact of delays on project cost and viability**

Assumptions for affecting the implementation of the project as under.

Less release of funds  
Late release of funds

**(12) Implementation of the project:**

Indicate starting and completion date  
Of the project

Starting: August 2008  
completion: June 2010

Item-wise/year-wise implementation schedule in the line chart co-related with the phasing of phasing of physical activities.

S.#	Particulars	1 <sup>st</sup> Year				2 <sup>nd</sup> Year				3 <sup>rd</sup> Year			
i)	Resources person												
ii)	Training for trainees												
iii)	Training cost												
iv)	Monitoring Cost												

**13. Management structure and manpower requirements**

i) Administrative arrangements for implementation of the project.

Director General Agriculture Research Sindh, Tandojam will be team leader and Director S.HR.I Mirpurkhas will be the co-team leader for implementation of the project as technical experts. The project will be supervised by the Horticulture Mirpurkhas.

ii) Manpower requirements during execution and operation of the project be provide by skills/profession

Computer Operator one person.

iii) Job description, qualification, experience, age and salary of each job be provided.

Two year Diploma in Information Technology Salary os Rs: 10,000 P.M for temporary basis.

**SUMMARY OF THE PROJECT COST**

**(Amount in Millions)**

Sr. No.	Particular	Qty:	1 <sup>st</sup> year 2008-09	Qty:	2 <sup>nd</sup> year 2009-10	Qty:	Total
c	Trainees stipend cost Rs: 4000 per training per month:  Mirpurkhas (100x2) batches Khairpur (60x2) batches (320x2) = 640 trainees	200 120 320	7.680	200 120 320	7.680	400 240 640	15.360
	<b>Sub total: A</b>		7.680		7.680		15.360
B	<b>Training Cost</b>						
1.	Resources person 15 (Rs: 8,000/- Pm for		1.440		1.440		2.880
2.	Training material & Stationary for Resources persons(Rs: 300 p.m		0.054		0.054		0.108
3.	Sets of Field Tools Rs: 2,200 per trainees		0.704		0.704		1.408
4.	Hand spray (75+75 =150) Rs: 5000		0.375		0.375		0.750
5.	Power Spray 2X2=4 Rs; 50,000		0.100		0.100		0.200
6.	Cost of other stores (Seed, fertilizer, Pesticide, Polythene bags, FYM, Sand		3.097		3.597		6.694
7.	Advertisement & Publicity		0.100		0.100		0.200
8.	Printing Charges		0.050		0.050		0.100
	Sub Total: B		5.92		6.420		12.340
C.	<b>Admn Cost</b>						
10	Computer Operator 1person Rs: 10,000 per month		0.120		0.120		0.240
11	Computer/ Laser Printer (1 No)		0.080		--		0.080
12	Electric Water Cooler (2 Nos.)		0.080		--		0.080
13	Repair & Maintenance, transportation and Machinery		0.100		0.150		0.260
14	POL		0.100		0.100		0.200
15	Stationery & Dispatch		0.050		0.050		0.100
16	TA & DA		0.050		0.050		0.100
17	Miscellaneous		0.120		0.200		0.320
18	Furniture & Fixture		0.550		0.080		0.630
	Sub total : C		1.25		0.750		2.000
	Total A+B+C		14.850		14.850		29.700
19	Monitoring Cost 1%		0.150		0.150		0.300
	<b>Grand Total:</b>		<b>15.00</b>		<b>15.00</b>		<b>30.00</b>

## Justification

S.No	Particular	Justification
i)	Resources persons	Fifteen Resources Persons will be nominated from Sindh Horticulture Research Institute Mirpurkhas, and Date Palm

		Research Station Khairpur, will train to trainees for Flower, Fruit nursery Management. They will be paid Rs: 8000 per month duration for two years.																						
ii)	Training for trainees	<p>Training will be given to 400 (Four hundred trainees during two years) .</p> <table border="1"> <thead> <tr> <th>Place</th> <th>1<sup>st</sup> year</th> <th>2<sup>nd</sup> year</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Mirpurkhas</td> <td>100x2= 200</td> <td>100x2= 200</td> <td>400</td> </tr> <tr> <td>Khairpur</td> <td>60x2=120</td> <td>60x2=120</td> <td>240</td> </tr> </tbody> </table>	Place	1 <sup>st</sup> year	2 <sup>nd</sup> year	Total	Mirpurkhas	100x2= 200	100x2= 200	400	Khairpur	60x2=120	60x2=120	240										
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iii)	Sets of Field tools	640 sets of field tolls Rs: 2200/- each will be procured for 640 trainees.																						
iv)	Hand Sprayer	150 Hand Sprayer Rs: 5,000/- each will be procured for 640 trainees.																						
v)	Power Sprayer	Four Power Sprayer Rs: 50,000/- each will be procured for two places Mirpurkhas & Khairpur.																						
vi)	Seed, Fertilizer and Pesticide, FYM, Sand, Herbicides, Harmones, Polythene bags and others.	<p>Seed Fertilizer and Pesticide will be procured for 2 years for experiment. .</p> <p>And amount of Rs. 6.694 million are proposed for the purchase of necessary material, for 640 trainees. Which stands Rs. 1743 per month per trainee. The following material will be purchased for each trainees.</p> <table border="1"> <tbody> <tr> <td>DAP Fertilizer.</td> <td>Rs.650</td> </tr> <tr> <td>Potash Fertilizer.</td> <td>Rs.300</td> </tr> <tr> <td>Urea Fertilizer.</td> <td>Rs.243</td> </tr> <tr> <td>Sand</td> <td>Rs.050</td> </tr> <tr> <td>FYM</td> <td>Rs.050</td> </tr> <tr> <td>Seed of fruits and flowers</td> <td>Rs.100</td> </tr> <tr> <td>Polythene bags</td> <td>Rs.100</td> </tr> <tr> <td>Pesticide</td> <td>Rs.050</td> </tr> <tr> <td>Herbicide</td> <td>Rs.025</td> </tr> <tr> <td>Hermones</td> <td>Rs.025</td> </tr> <tr> <td>Others</td> <td>Rs.100</td> </tr> </tbody> </table>	DAP Fertilizer.	Rs.650	Potash Fertilizer.	Rs.300	Urea Fertilizer.	Rs.243	Sand	Rs.050	FYM	Rs.050	Seed of fruits and flowers	Rs.100	Polythene bags	Rs.100	Pesticide	Rs.050	Herbicide	Rs.025	Hermones	Rs.025	Others	Rs.100
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vii)	Advertisement & Publicity	For information of Public Advertisement & Publicity will be arranged in leading newspapers, Radio and Television.																						
viii)	Printing charges	Brushes, pumplets, leaflets and other related printing material with training programme.																						
ix)	Electric Water Cooler	2 Electric Water Coolers will be procured for trainees at two places Mirpurkhas & Khairpur.																						
x)	Repair & Maintenance of transportation	Old vehicle and machineries will repair & maintenance for taking them on Road for transportation purpose.																						
xi)	POL	POL for transport will also be arranged at Rate available in the local market.																						
xii)	Computer with Laser Printer	Formatting the whole record of training programme																						
xiii)	Computer Operator one person.	For operating the computer person will be appointed on purely temporary basis for two years.																						
xiv)	Miscellaneous	Any thing which is required for the trainees will also be arranged.																						
xv)	Furniture & Fixture	In accordance with requirement of Furniture & Fixture will be arranged.																						
xvi)	TA & DA	TA & DA will be allowed to horticulturist officers.																						