

## **AGRICULTURE ,FOREST & WILDLIFE AND CDA SECTORS**

Traditionally, the Agriculture Section deals with the various disciplines of agriculture and its related sectors and sub- sectors at micro and macro level. The Section comprises the following: plant protection; agriculture research; agriculture education; agriculture mechanization; agriculture extension; animal husbandry; food storages; fisheries; marketing; cooperation; wildlife and forests.

For performing its functions, the Section comes into contact with various provincial departments and organizations such as, Agriculture, Livestock, Food and Fisheries Department; Wildlife and Forest Department; Bureau of Supply and prices ; Rice Research Institute, Dokri ; Agriculture Research Institute, Tando Jam ; Horticulture Research Institute, Mirpurkhas; Sindh Seed Corporation, Sakrand; Karachi Fish Harbour; Poultry Research Institute ; Directorate General of Agriculture Engineering; Directorate General of On-Farm Water Management; Directorate of Animal Husbandry; Directorate of Fisheries; Directorate of Food; Directorate General of Agriculture Extension and a number of other agencies dealing with specific projects.

### **A. AGRICULTURE SECTOR**

Agriculture is the back bone of the economy of the country and the province. The development of the country largely depends on the growth of Agriculture sector which contributes 25% of the GDP, provides livelihood to 68% of the country's population living in rural areas, employees 48% of the labour force and its share of export earnings accounts to 60% from processed and unprocessed agricultural products.

2. the Province of Sindh contributes, significantly towards overall national Agricultural Production in major crops with 32.7% in Rice, 23% in sugarcane, 16% in wheat and 21.75% in cotton.(Federal Govt latest communication dated 2.5.2008) It contributes about 67% in marine fish, 60% in inland fish and 100% in brackish water fish. Its contribution in Livestock is about 24% ,

3. Realizing the importance of agriculture, Sindh Govt has increased the development budget of this Sector for the next financial year 2008-09 by about 36.34% and above the current financial year 2007-08 and that of the Forest, wildlife and CDA sector by 43.5% . The comparative statement position of two years is as follows :

**Rs in million**

A. Agriculture sector	ADP.2007-08 Allocation	ADP 2008-09 Allocation	%age Increase
- Agriculture proper(Agri.Deptt)	1724.777	2292.500	32.91%
- Food Department	49.500	175.00	253.53%
- Livestock & Fisheries Deptt	<u>1800.00</u>	<u>2405.676</u>	<u>33.65%</u>
Total Agriculture Sector	<b><u>3574.272</u></b>	<b><u>2405.676</u></b>	<b><u>36.34%</u></b>

B. <u>Forest ,Wildlife and CDA Sector</u>			
- Forest	153.000	296.00	93%
- Wildlife	22.096	40.00	81%
- CDA	<u>210.904</u>	<u>218.00</u>	<u>3%</u>
	<b><u>386.00</u></b>	<b><u>554.00</u></b>	<b><u>43.5%</u></b>

## **DEVELOPMENT ACHIEVEMENT DURING 2007-08**

### **AGRICULTURE DEPARTMENT**

- Certified nurseries have been developed and 5000 plants of Mango, 1960 of Chiku, 2000 of Jaman, 2000 of Guava and 3775 of Jujube have been produced and provided to farmers for cultivation on nominal charges..
- 34.000 bales of clean cotton produced in Sindh and Rs.23.580 million were provided as premium to growers @ Rs.50/- per maund equally shared by Federal and Provincial Govt.
- 700 tubewells have been installed on 50% subsidized rates to explore underground water
- 6000 watercourses are being improved / lined in Sindh.
- 17000 acres of land has been developed for cultivation through Bulldozers.
- For water conservation 22 sprinkler system has been installed on farmers field Govt provides 80% cost and 20% by farmers.
- 108 watercourses are being lined 100% under the project "Additional lining of already improved watercourses in Sindh".
- Work on establishment of two modern New Sabzi Mandies in Karachi one at Northern by Pass and other near Ghagar Phatak has been started during the year.

### **Food Department**

The work continued on the scheme "Rehabilitation/Special Repairs of SGG-I,II & III Landhi Karachi".

## **Livestock & Fisheries Department**

Attention was paid towards improvement & development of Animal Husbandry. During the current financial year Rs.8.350 million animal are likely to be vaccinated and 5.25 million , animals would be treated through the net work of Hospital /Dispensaries / Veterinary centers in the Province. Besides 70000 artificial inseminations are to be carried out in Cattle and Buffaloes and 60000 samples are to be collected from diseased animals for diagnosis purpose. The Deptt started the process for purchase of 300 Koka Sheep and 08 Kooka Ram for Koka sheep Farm Sukkur and the work continued on Establishment and Breeding farm of Pateri Goat Farm . Kooka sheep farm and Bari goat Farm . Besides 345 private fish farms were established 3.3 million fish fries/ finger lings were provided to the Fishermen and 1000 fish farmers were provided the trainings in their fields

## **FOREST WILDLIFE AND CDA**

Sindh Forest Deptt initiated number of programmes for bridging the gap between demand and supply of wood improving the socio-economic conditions of rural population of rural population , protection of environmental and conservation of wildlife and Bio-diversity.

Coastal Roads, water supply etc. schemes were initiated for the benefit of the Coastal belt of Sindh.

List of Schemes to be completed by 30.6.2008 is attached as Annex-I.

**MAJOR INITIATIVES UNDER ADP-2008-09 PERTAINING TO AGRICULTURE, FOREST, WILDLIFE & CDA SECTOR**

The salient features of ADP-2008-09 are attached as Annex-II. The implementation of these major schemes would have a positive impact on the agrarian Society of the Province and would help improving there socio-economic conditions. Besides the following targets are expected to be achieved during ADP 2008-09 :-

<b><u>SR.NO</u></b>	<b><u>NAME OF SECTOR / SUB SECTOR</u></b>	<b><u>UNITS</u></b>	<b><u>ACHIEVE MENTS 2007-08</u></b>	<b><u>TARGETS FOR 2008</u></b>
<b>A.</b>	<b><u>Agriculture Department.</u></b>			
<b>1</b>	Installation of Tube wells	<b>No</b>	<b>900</b>	<b>539</b>
<b>2</b>	Water course Improvement	<b>No</b>	<b>6000</b>	<b>7000</b>
<b>3</b>	Area Dev. by Bulldozers	<b>Hectare</b>	<b>6868</b>	<b>7000</b>
<b>4</b>	Installation of Micro/ Drip Bubbler	<b>Acres</b>	<b>550</b>	<b>650</b>
<b>5</b>	Sprinkler Irrigation system	<b>No</b>	<b>22</b>	<b>20</b>
<b>B.</b>	<b><u>Livestock &amp; Fisheries Department</u></b>			
<b>1</b>	Animals Vaccinated	<b>Million</b>	<b>8.350</b>	<b>8.800</b>
<b>2</b>	Artificial Insemination in Cattle & Buffaloes	<b>No</b>	<b>70,000</b>	<b>75,000</b>
<b>3</b>	Animal Treated	<b>Million</b>	<b>5.25</b>	<b>5.700</b>
<b>4</b>	Samples collected from diseased animals	<b>No</b>	<b>60,000</b>	<b>70,000</b>
<b>5</b>	Establishment of private fish farms	<b>No</b>	<b>345</b>	<b>375</b>
<b>6</b>	Supply of fish fries / fingerlings	<b>Million</b>	<b>3.300</b>	<b>3.680</b>
<b>7</b>	Training of private fish farmers	<b>No</b>	<b>100</b>	<b>1100</b>
<b>C.</b>	<b><u>Forest &amp; Wildlife Department</u></b>			
<b>1</b>	<b><u>New Planting</u></b>			
	a. Inland	<b>Acres</b>	<b>4041</b>	<b>4445</b>
	b. Riverine	<b>Acres</b>	<b>1350</b>	<b>1485</b>
	c. Mangroves	<b>Acres</b>	<b>8649</b>	<b>9514</b>
<b>2.</b>	<b><u>Container Plants :</u></b>			
	a. Raising of Container Plants	<b>M.Nos</b>	<b>0.52</b>	<b>0.57</b>

	b. Raising of Mangroves Container Plants	<b>M.Nos</b>	<b>0.38</b>	<b>0.418</b>
<b>3.</b>	Canal side /Road side plantation	<b>Av.Kms</b>	<b>275</b>	<b>302.5</b>
<b>4.</b>	Coconut plantation	<b>Acres</b>	<b>200</b>	<b>--</b>

### **Annexure-I**

#### **List of ADP 2007-08 Scheme likely to be completed by 30.06.2008.**

#### **Sr.No. Name of Department**

##### **A. Agriculture Department**

1. Strengthening of Pesticide Laboratories to Provide Essential Amenities in Sindh (Hyderabad, Rohri, Larkana & Mirpurkhas).
2. Research on Organic Farming, Management of Asian Brassica Disease of Mango and Impact of Boron Application on Rice Crop.
3. Capacity Building of Research Workers by Providing Short Training in NIBJI, NARC and Ayub Agriculture Institutes.
4. Research on Mushrooms cultivation in Sindh.
5. Development & Propagation of Post Harvest Technology to increase shelf life of fruits & vegetable.
6. Inclusion of Malhi Training Course at ATI Sakrand.
7. Increase in the Knowledge of the Field Extension Workers by Providing in service Training and Refresher Courses.
8. Feasibility Study of Desalination Plants using Wind Solar Bio Gas System.

9. Pilot Project for Promotion of Water Conservation Technologies through Introduction of High Efficiency Irrigation System in Sindh.
10. Establishment of Booh Based Agro Industry (Feasibility Study).

**B. Livestock & Fisheries Sector.**

11. Ensuring High Quality inputs through Artificial Insemination Extension ` Extension Services in Sindh.
12. To Protect Rural Poultry against Deadly Diseases through Mass Vaccination to Minimize Losses caused by Diseases.

**C. Forest & Wildlife**

13. Establishment of Coconut and Oil Palm Farms in Coastal Zone of Sindh.
14. Afforestation of New Area and Rehabilitation of Existing Irrigated Plantation Over 4122 acres in Sindh.
15. Afforestation of 6655 acres of Harvested Areas of Ghotki, Shikarpur and Jacobabad Districts.
16. Afforestation in Riverine Forest through Participatory Forestry Over an Area of 1500 ha.
17. Planting of Rhizophora Mucronata Over 10000 ha of Indus Delta Mangroves Phase-II.

**D. Coastal Development Authority.**

18. Marine Fisheries Surveillance in the Coastal Areas of Sindh.
19. Aquaculture Development in the Coastal Areas of Sindh.
20. Improvement of Livestock in the Coastal Areas of Thatta and Badin Districts.

21. Shrimp Breeding in the Coastal Areas of Thatta and Badin Districts.
22. Increasing the Communication Access to the Coastal Belt of Sindh.
23. Drinking Water Supply to Five Villages of Coastal Areas of Badin District.
24. Drinking Water Supply to Five Villages of Coastal Areas of Thatta District.
25. Rehabilitation and Propagation of Drought Affected Coastal Mangroves of Thatta District.

**Annexure-II.**

**List of important Projects included in ADP 2008-09**

**A. AGRICULTURE DEPARTMENT**

**i) On-GOING SCHEMES**

Sr. No	Name of the Project	Cost	Exp. Upto June 2008	ADP 2008-09 Allocation
01	Agriculture Sector Professional Development Center Sakrand.	121.284	20.000	29.202
02	Installation of 1500 Tube wells in Sindh	310.318	158.625	25.00
03	Procurement of Agricultural Implements	150.00	100.00	50.00
04	Procurement of Wheat, Paddy and Sunflower Threshers for Providing to Farmers on 50% Subsidy.	156.700	106.750	50.000
05	Replacement of Earth moving machinery in Sindh	800.00	277.87	50.000

06	Programme for Water Conservation & Productivity Enhancement through high efficiency agriculture system	693.846	-	150.000
07	Establishment of Agro-Export Processing zone for Fruits, vegetables, Flowers, & allied Processing units products from local farms / processing to overseas	370.846	226.412	144.434
08	Revival/ Rehabilitation of Sindh Seed corporation	247.000	189.500	57.500
09	Development of internal road water supply, drainage and other modern facilities and liabilities of KESC in New Subzi Mandi Karachi	294.482	30.300	150.000
10	Establishment of New Sabzi Mandies / Cold Storage at Karachi (2Nos.) Mirpurkhas, Tando Allahyar & Shahpur Jehania	3491.588	53.314	150.000
11	Construction of Mirch mandi, Kunri, (Kunri District Umerkot).	195.878	0.00	35.000

**A. AGRICULTURE DEPARTMENT**  
**ii) NEW SCHEMES**

<b>Sr. No</b>	<b>Name of the Project</b>	<b>Cost</b>	<b>Exp. Upto June 2008</b>	<b>ADP 2008-09 Allocation</b>
01	Promotion of Kitchen Gardening by providing Technical and Financial Support to rural women	15.000	0.000	7.500
02	Development of Skill Manpower particularly in promotion of Flower & Fruits Nurseries	30.000	0.000	15.000
03	Establishment of Controlled Atmosphere Stores and Cold Storages in Sindh.	500.000	0.000	200.000
04	Provision of Chillies Dryer and Installation of Date, Dryers & Date Processing Plants.	200.000	0.000	100.000
05	Training of Women Folk in Cotton Picking for Promotion of Clean Cotton Product.	100.000	0.000	30.000
06	Strengthening of Directorate of Crops Reporting Services in Sindh.	150.000	0.000	50.000
07	Benazir Bhutto Shaheed Sindh Youth Development Programme	300.000	0.000	300.000
08	Benazir Bhutto Shaheed Agriculture Services Centers in Sindh (8 Units/Districts)	600.000	0.000	150.000
09	Construction of Storages through Public Private Participation in the Districts.	2000.000	0.000	100.000

**B. LIVESTOCK & FISHERIES DEPARTMENT****i) On-GOING SCHEMES**

<b>Sr. No.</b>	<b>Name of the Project</b>	<b>Cost</b>	<b>Exp. Upto June 2008</b>	<b>ADP 2008-09 Allocation</b>
01	Improvement of existing Livestock Farms in Sindh.	140.447	42.382	58.417
02	Establishment of Cattle Colonies with District and Private Participation, Phase-I.	1700.00	276.883	167.799
03	Provision of Chilling Tanks through Public – Private Partnership	300.000	25.00	225.000
04	Provision of landing plate farm, chilling storages, processing facilities at zero point Badin, Keenjhar lake Thatta, Manchar lake Dadu, hora Jetty at Karachi Fish harbor.	334.836	41.388	65.331
05	Strengthening and improvement of Fish and shrimp hatcheries in Sindh.	784.013	37.881	150.000
06	Provision of Fishing Gears Modification of Boats, Provision of Ice Boxes and Plastics Crates to Fishermen in Sindh.	352.000	105.163	58.276
07	Rehabilitation & Renovation of Karachi Fish Harbour	290.271	108.910	100.000

**B. LIVESTOCK & FISHERIES DEPARTMENT****ii) NEW SCHEMES**

<b>Sr. No.</b>	<b>Name of the Project</b>	<b>Cost</b>	<b>Exp. Upto June 2008</b>	<b>ADP 2008-09 Allocation</b>
01	Construction of Taluka Veterinary Dispensaries in Sindh Phase-I	500.000	0.000	100.000
02	Public Private Partnership for Developing Livestock and Dairy Farming in Sindh.	500.000	0.000	200.000
03	Benazir Bhutto Shaheed Sindh Youth Development Programme.	377.673	0.000	377.673
04	Establishment /Promotion of Shrimp, Fin Fish and Tuna Farming with Public-Private partnership in Sindh	300.000	0.000	100.000
05	Construction of Model Fish Harbour at Ketu Bunder, Thatta	500.000	0.000	100.000

**C. FOREST, WILDLIFE & CDA**  
**i) On-GOING SCHEMES**

<b>Sr. No.</b>	<b>Name of the Project</b>	<b>Cost</b>	<b>Exp. Upto June 2008</b>	<b>ADP 2008-09 Allocation</b>
01	Establishment of Game Reserve at Sarhad Forest	71.344	5.00	55.617
02	Sindh Coastal and Community Development Project (ADB CR # 2310)	2406.000	-	35.00

**C. FOREST, WILDLIFE & CDA**  
**ii) NEW SHEMES**

<b>Sr. No.</b>	<b>Name of the Project</b>	<b>Cost</b>	<b>Exp. Upto June 2008</b>	<b>ADP 2008-09 Allocation</b>
01	Benazir Bhutto Shaheed Youth Development Programme	100.00	0.00	100.00
02	Aerial Seeding in Area of Gorakh Hill	100.00	0.00	20.00-
03	Development of khirthar Protected Area Complex (KPAC)	499.895	0.00	30.00
04	Communication access to the Coastal Belt of Sindh	300.00	0.00	50.839
05	Electrification of Villages in the Coastal Belt of Sindh	100.000	0.00	26.237