Forestry and Fisheries

Forestry and Fisheries Sector comprises of the following sub-sectors;

- A) Forestry
 - i. Demarcated Forests
 - ii. Watershed/Social Forestry
- **B)** Fisheries and Wildlife
 - i. Wildlife
 - ii. Fisheries

Salient Features of ADP:

Forestry and Fisheries Sector's projected development outlay for the year 2014-15 is planned at Rs. 365.000 million, which constitutes about 3.48 % of the core ADP 2014-15. The Sector's approved schemes' portfolio comprises of 19 schemes; with an estimated cost of Rs. 2319.457 million, expenditure ending June 2013 was Rs. 787.209 million and the revised allocation for 2013-14 was Rs. 372.966 million. Therefore, throw forward of the approved projects' portfolio beyond 2014-15 is worked out to be Rs. 812.312 million.

A. Forests Department

1. Vision

Scientific management of forestry resources on sustainable basis, ensuring environmental amelioration, checking sediment inflow into water bodies to increase useful life of irrigation infrastructure, to conserve hydro power potential & biodiversity leading to poverty alleviation.

2. Goals

- Increasing tree cover through planting on degraded forest as well private lands.
- Efficient management of existing forests to satisfy the needs of people.
- Optimizing the production of forestry goods and services.
- Ensuring clean and sustainable water supply from watershed for drinking, hydro power generation, sports, irrigation and other purposes.
- Promoting aesthetic / spiritual values and eco-tourism.
- Carbon sequestration and resource generation.
- Scientific management of rangelands for increasing production of forage and fodder through development interventions and controlled grazing regime.

3. Economic/ social potential

- Area under the control of the Forest Department extends over 5,670 km2 that makes 42.6% of the total land mass. Commercial forests, however, extend on about 11% only. There is another 17.5% area that has the potential to become forested area. Of the rest, 14.2% is Protected Forests, while 14.7% consists of alpine pastures, barren rocks, water-bodies, and snow-covered mountain peaks.
- The demarcated forests area also includes 150,000 ha area of pasture/ range lands, another 50,000 ha is privately owned, together constitute 18% of total land area.
- Natural forests of AJ&K consist of Sub-Tropical Pine Forests having Chir pine (Pinus roxburghii) forests mixed with some broadleaved species. In Moist and Dry Temperate Regions, Bluepine (Pinus wallichina), Deodar (Cedrus deodara), and Spruce (Picea smithiana) are the main conifers

interspersed with certain broadleaved associates (Maple, Horsechestnut, Birdcherry, Palach, Walnut, etc.).

- Medicinal Plants Section of Pakistan Forests Institute has listed 43 commercial / medicinal plant's species in AJK. Important herbs/ mushrooms used by pharmaceutical industry found in the area are Kuth (Saussurea lappa), Kanis (Dioscoria deltoides), Ban Kakri (Podophyllum emodi), Belladona (Atropa aumenta), Mohri (Aconitum chasmanthum), and Guchi (Morchella sp.)
- Kuth/Kashmir castus roots this plant has been declared as "endangered" due to its over exploitation. Oil extract of this plant is used in Bodh temples. Previously it was exported mainly to Japan. It is found in temperate region of Azad Kashmir and Northern Areas at high altitude. Azad Kashmir has sustainable production of 20,000 kg/annum from Neelum Valley, Jhelum Valley and Bagh Divisions. Under CITIES agreement we are banned now to export it. The temperate region of AJ&K has vast potential for its propagation to meet the demand in Bodh Region.
- Growing stock of commercial forests is 34.440 million m3 with a potential to annual yield of 0.200 million cubic meters.
- Eighty eight % of our population lives in rural areas, which has large dependence on forest for their daily basic needs and livelihood.
- Eighty nine % of households in AJK use wood for cooking and space heating, 94.12% in rural areas and 50.47% in urban areas.
- Ninety eight % of rural population depends on forests for grazing animals partially or completely, while 87% completely.
- Compared to Pakistan's average of 0.03 ha/capita forest area and world's average of 1 ha/capita, the people of AJ&K have 0.18 ha/capita.

4. Strategy

Objectives of "Green Kashmir Vision" would be realized through;

- Implementation of a massive afforestation program to achieve 5% target of increase in tree cover within MDGs commitment period.
- Protection of existing forest resources by adopting different measures like; implementing ban on green trees felling, promoting Joint Forest Management (JFM), amending existing forest laws for enhanced community participation and promoting wood alternatives etc.
- Accessing the carbon credits through the CERs generation; fund established under UNFCC to retrieve carbon emission receipts, which shall be distributed in Govt. and private / local community on equity basis i.e. 50-50%.
- Protecting integrity of critical watersheds.
- Involvement of women as development partner.
- Launching mass awareness on large scale both on print and electronic media to ensure public participation.
- Promoting public private partnership in forestry resource management and development.
- Reducing deforestation because of a variety of reasons the Government of AJ&K has imposed 9-year ban on commercial logging of green trees for commercial purposes, effective from 2001.

5. Salient Features of ADP

State Forests

Forestry Sub- Sector's projected development outlay for the year 2014-15 is planned at Rs. 176.985 million, which constitutes about 1.69 % of the core ADP 2014-15. The Sector's approved schemes' portfolio comprises of 10 schemes; with an estimated cost of Rs. 1319.517 million, expenditure ending June 2013 was Rs. 410.980 million and the revised allocation for 2013-14 was Rs. 193.986 million. Therefore, throw forward of the approved projects' portfolio beyond 2014-15 is worked out to be Rs. 550.566 million.

Watershed

Watershed Sub- Sector's projected development outlay for the year 2014-15 is planned at Rs. 128.015 million, which constitutes about 1.22 % of the core ADP 2014-15. The Sector's approved schemes' portfolio comprises of 4 schemes; with an estimated cost of Rs. 543.818 million, expenditure ending June 2013 was Rs. 294.425 million and the revised allocation for 2013-14 was Rs. 121.393 million. Therefore, throw forward of the approved projects' portfolio beyond 2014-15 is worked out to zero. Main physical targets and achievements are as follows;

S#	Description	T	FY 201	FY 2014-15	
5#	Description	Unit	Target	Progress	Target
1	Seedling production	Million #	7.000	7.000	8.000
2	Plantation establishment	Acre	8871	871	8000
3	Soil conservation works	Million ft ³	0.134	0.134	0.00
4	Boundary pillars	#	15,000	15,000	10,000
5	Sowing/ Dibbling	Acre	500	500	500
6	Ex-closures	Acre	10,000	10,000	15,000
7	Training	Person day	1500	1500	1500
8	Pasture development	Acre	500	500	500

B. Wildlife & Fisheries Department

1. Vision

Protect, conserve and manage terrestrial and aquatic wild genetic resources to satisfy need of ecosystems and communities, on sustainable basis, present and for the future, through setting of a protected areas network, habitat protection/ development, eco-tourism promotion and public private partnership development.

2. Economic and Social Potential

The territory has got variety of climates, habitats and ecosystems of two main ecological regions i.e. Subtropical and Temperate Himalayan Regions. The Wildlife Department of Azad Kashmir is intending to establish a network of protected areas to improve the population status of key wildlife species in general and to protect endangered, rare and unique species in particular. Eighteen protected areas covering an area of 113355ha including one Machiara National Park (area 13532ha) has been established. The important wildlife found in the area is given below:

i) Temperate Himalayan Region / Machiara National Park.

٠	Big Game:	Snow leopard, Common Leopard, Himalayan
		Ibex, Grey Goral, Musk Deer, Monkey, Black Bear etc.
٠	Small Game:	Western Horned Tragopan, yellow Throated
		Martin, Cheer Pheasant, Koalas Pheasant, Monal Pheasant.

ii) Subtropical Region/Vatala Game Reserve

- Bige Game Nile Gai, Barking Deer,
- -Small Game: Black Partridge, Grey Partridge, Indian Peacock, Hare.

Fisheries

Surface water resources consist of three main rivers the Jhelum, the Neelum and the Poonch with their tributaries draining into the Mangla Reservoir. These rivers originates from glaciers of ice cap mountains of occupied Kashmir, travel hundreds of KM to reach Punjab and Sindh offering great potential for inland fisheries in private sector and in big water bodies beside rivrine fisheries. This sweet and clean water contains bio-diversity fertile soils and other riches. State is rich in surface water resources (inland) which offered an excellent habitat for fish. Important types of the fish available in various rivers are as under:

- The Neelum River: Snow Trout, Gulfam, Brown Trout, Rainbow Trout,
- The Jhelum River: Gulfam, and Snow Trout.
- The Poonch River: Mahasheer, Gulfam, and Snow Trout.
- Mangla Lake: Mahasheer and Rohu, Malli, Singhara, Grass carp, Silver Carp, Common carp, Big head, Mohri, Thalla, Tilapia

3. Strategy & developmental interventions

Wildlife

- Promote eco-tourism through development of sufaries, trophy hunting and checking illegal hunting;
- Enhancing the technical capabilities of the department by reorganizing and providing the technical staff in each district of AJK by the end of FY2010.

- Identifying more potential areas of biodiversity hotspots and establishing new protected areas fro proper conservation and management
- Preparation of Management Plans for each Protected Area and their effective implementation.
- Setting up of a well designed monitoring system based on the measurable impact and performance indicators to ensure the sustainability of the biological diversity
- Identification of the custodian communities dependent on the natural resources of the protected areas, organize them and involve them in the conservation and management practices
- Reduce the pressure of the custodian communities on the natural resources through the provision of alternate livelihood resources and reduce the poverty by initiating activities of income generation.

Fisheries

- Initiate the extension work to persuade the potential private sector in fish farming
- Establish extension unit at each district level
- Establish at least 50 fish farms each year in the private sector
- Provide technical help to all farmers at least once in two months
- Help the farmers in harvesting and marketing the fish as per demand of the farmer
- Frequent supply of fish seed to the private fish farmers.
- Introduction of cage and pen culture in low income areas around natural water bodies.
- Establishment and up gradation of hatcheries network to meet expended development needs.
- Alternate energy and livelihood resources are the basic component of the future conservation and management plan of the wildlife and fisheries department.
- Socio-economic uplift through village level infrastructural development interventions in and around protected areas of the State.
- Increase in forested areas and wildlife species that ultimately boost the ecotourism in the State.
- Survey of fish diseases and establishment of diagnostic laboratory
- Introduction of trophy hunting concept by involving local communities that provide ample money to local people for their socio-economic development.
- New developmental programs for Human Resources Development and Capacity Building
- Introduction of new aquaculture interventions (Cage & Pen Fish culture)
- Fish farming in mini dams
- Integrated fish farming
- Establishment of Fish Seed Production and Distribution Center in Mirpur
- Provision of Extension Services in all districts of AJK
- Establishment of Model Trout Farms in Private Sector
- Publicity and awareness campaign about the importance of the bio-diversity of the State
- Formulation of Fisheries and wildlife policy
- Adopting modern techniques of reforestation like, aerial seed broadcasting etc. for habitat improvement
- Strengthening & Reorganization of the Department
- Conservation, protection and establishment of Mahasheer and Trout fish hatcheries for stock replenishment in semi cold and cold waters of State.

4 Salient Features of ADP:

Wildlife

Wildlife Sub- Sector's projected development outlay for the year 2014-15 is planned at Rs. 30.00 million, which constitutes about 0.29 % of the core ADP 2014-15. The Sector's approved schemes' portfolio comprises of 2 schemes; with an estimated cost of Rs. 213.607 million, expenditure ending June 2013 was Rs. 18.604 million and the revised allocation for 2013-14 was Rs. 35.841 million. Therefore, throw forward of the approved projects' portfolio beyond 2014-15 is worked out to be Rs. 129.177 million.

Fisheries

Fisheries Sub- Sector's projected development outlay for the year 2014-15 is planned at Rs. 30.00 million, which constitutes about 0.29 % of the core ADP 2014-15. The Sector's approved schemes' portfolio comprises of 3 schemes; with an estimated cost of Rs. 242.515 million, expenditure ending June 2013 was Rs. 63.200 million and the revised allocation for 2013-14 was Rs. 21.746 million. Therefore, throw forward of the approved projects' portfolio beyond 2014-15 is worked out to be Rs. 132.569 million.

S#	Description	Unit	FY 2013	3-14	FY 2014-15
			Planned	Actual	Target
1.	Construction of Kail Seri Trout	Task	Completion of	Completed	-
	Hatchery		remaining Works		
2.	Construction of Captive Breeding	Task (%)	20	20	75
	Center Mirpur				
3.	Construction of Captive Breeding	Task (%)	10	10	50
	Center Pirchanasi				
4.	Construction of Captive Breeding	Task (%)	20	20	50
	Center Banjosa				
5.	Construction of Mahasheer	Task (%)	20	20	50
	Hatchery and Office Kotli				
6.	Construction of Trout Hatcheries	Task (%)	20	20	50
	Tao Butt and Dawarian				
7.	Construction of Fish Ponds	No.	-	-	50
8.	Fish Farmers Trainings (event)	No	-	-	5

SUMMARY ANNUAL DEVELOPMENT PROGRAMME 2014-15, AZAD JAMMU & KASHMIR

ANNUAL	DEVELOF	MENT PROC			-			v pees in Million
Sector/Sub-Sector	No. of Schemes	Approved(Rev.)/ Estimated Cost	Fir Budget Estimates 2013-14	Revised Estimates 2013-14	Expected Expenditure Upto June 2014	Allocation 2014-15	Expected Progress Upto June 2015 (%)	Throw Forward as on 01-07-2015
1	2	3	4	5	6	7	8	9
Forestry/Fishries								
a.) Forestry								
On Going	10	1,319.517	177.400	193.986	604.966	163.985	58%	550.56
New	2	400.000	0.000	0.000	0.000	13.000	3%	387.00
Total	12	1,719.517	177.400	193.986	604.966	176.985	45%	937.56
b.) Watershed								
On Going	4	543.818	117.600	121.393	415.818	128.000	100%	0.00
New	3	530.000	0.000	0.000	0.000	0.015	0%	529.98
Total	7	1,073.818	117.600	121.393	415.818	128.015	51%	529.98
c.) Wildlife		<u>+</u>	<u>.</u>					
On Going	2	213.607	28.754	35.841	54.445	29.985	40%	129.17
New	1	30.000	0.000	0.000	0.000	0.015	0%	29.98
Total	3	243.607	28.754	35.841	54.445	30.000	35%	159.16
d.) Fishries		1	I				11	
On Going	3	242.515	26.246	21.746	84.946	25.000	45%	132.56
New	1	20.000	0.000	0.000	0.000	5.000	25%	15.00
Total	4	262.515	26.246	21.746	84.946	30.000	44%	147.56
Forestry/Fishries	1	1					11	
Ongoing	19	2,319.457	350.000	372.966	1,160.175	346.970	65%	812.31
New	7	980.000	0.000	0.000	0.000	18.030	2%	961.97
Total	26	3,299.457	350.000	372.966	1,160.175	365.000	46%	1,774.28

ANNUAL DEVELOPMENT PROGRAMME 2014-15, AZAD JAMMU & KASHMIR

(Rupees in Million)

SECTOR: Forestry/Fishries SUB-SECTOR: Forestry **Financial Progress** Expected Date of Throw Progress Expected Name of the Project Ser. No. Approval/ Approved(Rev.)/ Allocation Forward Budget Revised Upto June Expenditure Ref.# with Status & Location Completion Estimated Cost 2014-15 as on Estimates Estimates 2015 Upto June App. Forum 01-07-2015 2013-14 2013-14 2014 (%) 4 2 8 9 10 1 3 5 6 7 **ONGOING PROJECTS** Preparation of Scientific Forests 01 Sep 2009 176.086 20.000 14.187 40.348 35.000 78% 20.652 1 Management Plans in AJK 31 Aug 2012 96.000 **FOR-10** AKDWP U.Rev. Establishment of Permanent Forests 27 Mar 2012 394.722 21.000 37.027 65.008 34.000 25% 295.714 2 26 Mar 2017 Nurseries in AJK FOR-15 AKCDC 3 Protection of Forests from Fire in AK 29 Apr 2011 182.000 2.042 2.542 10.232 2.477 16% 67.291 30 Jun 2016 80.000 (Phase-II) FOR-117 AKDWP U.Rev. 4 Demarcation of Forests in AJK 10 May 2007 149.817 22.000 26.014 136.309 13.508 100% 0.000 30 Jun 2012 FOR-119 AKCDC 5 Support to Natural Regeneration in 01 Apr 2011 321.534 40.000 46.455 118.814 51.000 53% 151.720 Demarcated Forests in AJK 30 Jun 2016 FOR-125 AKCDC Range Management Project in AJK 01 Feb 2007 39.917 2.000 2.600 30.497 0.000 100% 0.000 6 31 Jan 2012 30.497 FOR-127 AKDWP C.C. Provision of Staff for Implementation of 04 Sep 2008 158.559 27.000 25.255 115.370 28.000 90% 15.189 7 Project"Development of Forestry Sector 03 Sep 2014 FOR-143 Resources for Carbon Sequestration in AKĊDC AJK" (AJK Component) 8 Special Planting Program for Spring 2012 29 Feb 2012 98.600 40.000 37.983 86.465 0.000 100% 0.000 to Spring 2013 30 Jun 2013 86.465 FOR-152 AKDWP C.C. Propagation of Walnut in Potential Areas 9 14 Jun 2013 109 303 2 000 1 823 1 823 0.000 100% 0.000 of Nothern AJK. 30 Jun 2014 1.823 FOR-153 AKDWP C.C. Strengthening of Forestry Research & Development in AJK 10 Jun 2013 151.737 0.100 0.000 1 358 0 100 100% 0.000 10 30 Jun 2014 0.100 FOR-159 AKDWP C.C. Total On Going Forestry 1.319.517 177.400 193.986 604.966 163.985 58% 550 566

ANNUAL DEVELOPMENT PROGRAMME 2014-15, AZAD JAMMU & KASHMIR Forestry/Fishries

SECTOR SUB-SE		Forestry/F Forestry	Fishries					(Rupe	ees in Million)
000 02				Fir	nancial Progre	ess			
Ser. No. Ref.#	Name of the Project with Status & Location	Date of Approval/ Completion App. Forum	Approved(Rev.)/ Estimated Cost	Budget Estimates 2013-14	Revised Estimates 2013-14	Expected Expenditure Upto June 2014	Allocation 2014-15	Expected Progress Upto June 2015 (%)	Throw Forward as on 01-07-2015
1	2	3	4	5	6	7	8	9	10
1 FOR-281	ROJECTS Reforestation Progarm in Demarcated Forest of North AJK	Un-App	200.000	0.000	0.000	0.000	6.500	3%	193.500
2 FOR-282	Reforestation Program in Demarcated Forests of South AJK	Un-App	200.000	0.000	0.000	0.000	6.500	3%	193.500
Total New F	orestry		400.000	0.000	0.000	0.000	13.000	3%	387.000
Total Fores	stry		1,719.517	177.400	193.986	604.966	176.985	45%	937.566

ANNUAL DEVELOPMENT PROGRAMME 2014-15, AZAD JAMMU & KASHMIR Forestry/Fishries

SECTOR	र:	Forestry/F	Fishries					(Rupe	ees in Millior
SUB-SE	CTOR:	Watershe	d						
Ser. No. Ref.#	Name of the Project with Status & Location	Date of Approval/ Completion App. Forum	Approved(Rev.)/ Estimated Cost	Fir Budget Estimates 2013-14	Revised Estimates 2013-14	Expected Expenditure Upto June 2014	Allocation 2014-15	Expected Progress Upto June 2015 (%)	Throw Forward as on 01-07-20
1	2	3	4	5	6	7	8	9	10
ONGOII 1 FOR-130	NG PROJECTS Poverty Reduction Project through Participatory Watershed Development (AJK Componenet)	15 Mar 2007 31 May 2013 AKCDC	157.243 385.669 U.Rev.	52.378	57.893	310.169	75.700	100%	0.00
2 FOR-166	Integrated Land Management in District Muzaffarbad (Phase-V)	31 Aug 2012 30 Jun 2014 AKDWP	93.605 69.350 C.C.	26.622	32.000	50.850	18.500	100%	0.0
3 FOR-167	Intregrated Land Managment in District Bagh (Phase-V)	31 Aug 2012 30 Aug 2014 AKDWP	72.941 43.849 C.C.	19.100	15.500	26.849	17.000	100%	0.0
4 FOR-168	Intregrated Land Managment in District Poonch (Phase-V)	31 Aug 2012 30 Jun 2014 AKDWP	71.734 44.950 C.C.	19.500	16.000	27.950	17.000	100%	0.0
otal On Go	ing Watershed	1	543.818	117.600	121.393	415.818	128.000	100%	0.0

NEW PF	ROJECTS								
1 FOR-283	Integrated Community Based Watershed Management in Muzaffarabad Forest Circle	Un-App	175.000	0.000	0.000	0.000	0.005	0%	174.995
2 FOR-284	Integrated Community Based Watershed Management in Poonch Forests Circle	Un-App	180.000	0.000	0.000	0.000	0.005	0%	179.995
3 FOR-285	Integrated Community Based Watershed Management in Mirpur Forests Circle	Un-App	175.000	0.000	0.000	0.000	0.005	0%	174.995
Total New W	/atershed		530.000	0.000	0.000	0.000	0.015	0%	529.985
Total Water	rshed		1,073.818	117.600	121.393	415.818	128.015	51%	529.985

ANNUAL DEVELOPMENT PROGRAMME 2014-15, AZAD JAMMU & KASHMIR

(Rupees in Million)

SECTOR: SUB-SECTOR:

2 FOR-158

Total On Going Wildlife

Forestry/Fishries

15 Nov 2012 20 Nov 2015 AKDWP

Captive Breeding of Sports Species in District Mirpur.

SUB-SE	CTOR:	Wildlife							
				Fir	nancial Progre	ess			
Ser. No. Ref.#	Name of the Project with Status & Location	Date of Approval/ Completion App. Forum	Approved(Rev.)/ Estimated Cost	Budget Estimates 2013-14	Revised Estimates 2013-14	Expected Expenditure Upto June 2014	Allocation 2014-15	Expected Progress Upto June 2015 (%)	Throw Forward as on 01-07-2015
1	2	3	4	5	6	7	8	9	10
ONGOII	NG PROJECTS								
1	Captive Breeding of Sports Species in AJK	17 Jun 2011 20 May 2014		15.000	34.841	51.945	19.985	56%	56.594
FOR-137		AKCDC							

85.083

213.607

13.754

28.754

1.000

35.841

2.500

54.445

10.000

29.985

15%

40%

72.583

129.177

NEW PF	ROJECTS								
1 FOR-287	Up-gradation of Wildlife Recreational Park, Pattika, Muzaffarabad.	Un-App	30.000	0.000	0.000	0.000	0.015	0%	29.985
Total New W	/ildlife		30.000	0.000	0.000	0.000	0.015	0%	29.985
Total Wildli	ife		243.607	28.754	35.841	54.445	30.000	35%	159.162

ANNUAL DEVELOPMENT PROGRAMME 2014-15, AZAD JAMMU & KASHMIR Forestrv/Fishries (Rupees in Million)

SECTOR	२:	Forestry/F	Fishries					(Rupe	ees in Million
SUB-SE	CTOR:	Fishries							
				Fir	ancial Progre	ess		E	
Ser. No. Ref.#	Name of the Project with Status & Location	Date of Approval/ Completion App. Forum	Approved(Rev.)/ Estimated Cost	Budget Estimates 2013-14	Revised Estimates 2013-14	Expected Expenditure Upto June 2014	Allocation 2014-15	Expected Progress Upto June 2015 (%)	Throw Forward as on 01-07-201
1	2	3	4	5	6	7	8	9	10
1 FOR-108	Conservation of Mahasheer in AJK	21 Jan 2011 30 Jan 2014 AKDWP	86.973	10.000	3.000	34.341	10.000	51%	42.63
2	Establishment of Modern Trout Fish Hatcheries in District Neelum	05 Mar 2009 04 Mar 2014	62.070	14.046	18.546	50.405	7.000	92%	4.66
FOR-150 3	Promotion of Commercial Fish Production on Public-Private Partnership in AJK	AKDWP 27 Jan 2014 26 Jan 2017	93.472	2.200	0.200	0.200	8.000	9%	85.27
FOR-151		AKDWP							

NEW PROJECTS											
1 FOR-290	Fish Farming Extension Support Services in AJK	Un-App	20.000	0.000	0.000	0.000	5.000	25%	15.000		
Total New F	ïshries		20.000	0.000	0.000	0.000	5.000	25%	15.000		
Total Fishr	ies		262.515	26.246	21.746	84.946	30.000	44%	147.569		
Total Fores	stry/Fishries		3,299.457	350.000	372.966	1,160.175	365.000	46%	1,774.282		