I. Introduction:

Gulmarg Wildlife Sanctuary:

Gulmarg Wildlife Sanctuary falls 26 Kms to the South-West of District Baramulla of Jammu & Kashmir Nearest Airport lies at 95 Km's and Railhead stands 24 Kms away. Location:-

Altitude: 2400-4300 MSL. Longitude 74°.17' to 74°.79' N , Latitude 34°.55' to 34°.60' E

Area:-

Area of Gulmarg Wildlife Sanctuary of 180 Sq. Kms.

Rationale:

Gulmarg Wildlife Sanctuary abodes rich faunal and floral bio-diversity with variegated species like Musk Deer, Common Leopard ,Barking Deer, Asiatic Black Bear, Himalayan Black Bear, Indian Wolf, Snow Cock, Chakoor etc.Since the area is connected with the lower planes of Indian sub-continent ,sometimes presence of certain Wildlife species are also visible in the sanctuary who usually migrate from the lower planes e.g Barking Deer. Large number of Musk Deer's are seen in the gushing nalla of Ferozpora in areas of Afferwat, Botapathri, Babareshi, Gulmarg bowl etc. To ensure survival of highly endangered Musk Deer(*Moschus crysogater*),Gulmarg Wildlife Sanctuary was upgraded from Man and Bio-sphere Reserve in the year 1987.The area is one of the best world renowned tourist destination for its famous meadows ,rocky cliffs, dense birch forests and a home for bird watcher.

Boundary:-

The area is surrounded in North by Jehlum valley Forest Division-Baramulla, South by Forest Division of Poonch and Pir-Panchal .East is flanked by village of Drang and Badrakoot forests of Special forest Division-Tangmarg and on the West by Special Forest Division Tangmarg and Baba Reshi,village

II. Legal Status:

Gulmarg Wildlife Sanctuary : Notified vide S.R.O.147, Dated: 14-03-1987

III. Biodiversity: FLORA:

The Gulmarg Wildlife Sanctuary shows varied vegetation types determined according to the habitat from any denisity of dominant floral species. The vegetation communities are under the influence and control of various physical nd biological factors like altitude,aspect,habiat conditions and above all biotic interference .The spurs and grooves exhibit opurely natural vegetation and are dominant by coniferious crop,ranging between 85% tio 90% of thnetotal wood cover.Flowing major forest types have been distinguished in the area.

1.Blue pine:

Kail(*Pinus griffithii*) is the dominant constituent of this community ,whichat places get intermixed with the stands of spruce(*Picea smithiana*),yew (*Taxus wallichiana*)maple (*Acer cappadocicum*)and horse chest nut (*Aesculus indica*).The under story of indigofera heterantha,rose webbina and viburnum cappadocicum is poor..It occurs in small patches at lower altitudes on dry aspect of the slopes.

2. Silver Fir Forest:

The fir(*Abies pindrow*) crop is restricted on mountains grooves and moist aspects at heights .At lower limits it is associated at some places with Kail(*Pinus griffithii*),yew (*Taxus wallichiana*) ,spruce(*picea simithiana*) horse chest nut(*Aesculus indica*)etctogerthe witn an under growth of viburnum grandiflorum,Skimmia lawereola,when at heights juniperus communis patches,Betula utilis stands and coniferous regenartion come into isolation.

3. Brich:

This assemblage is characterized by a good stratification of birch (Betula utillis) extending between 3,000 to 3,5000 M and is distributed in the mountain grooves and shady places The fir(*Abies pindrow*)

4. Sub Alpine Forest:

Main associates of this forest type are fir(*Abies pindrow*),kail(*Pinus griffthii*) spruce(*Picea simithinana*),yew(*Taxus wallichiana*) and brich (*Betula utilis*). It has been further divided into following communities:

5. Alpine Pasturs

The vast pastures above tree line luxuriantly support herbaceous ground layer of *inula-grandiflora,primula* elliptica,potentilla gelida,coryidalis ,cornuta,gentian venusta,Anemone obtusiloba,Aquilegia nivales,ploygonum affine,P.alpinum,Rumex aceetosa.:

Fauna

S.No	Species	Zoological Name
1.	Kashmir Musk Deer	Moschus crysogater
2.	Asiatic Black Bear	Ursus thibetanus
3.	Himalayan Brown Bear	Ursus arctos
4.	Common Leopard	Panthera pardus millardi
5.	Grey Langur	Presbytis entellus
6.	Rhesus Macaque	Macaca mulatta
7.	Red Fox	Vulpes vulpes
8.	Jungle Cat	Felis chaus
9.	Leopard Cat	Felis bengalensis
10.	Brown Musk Shrew	Crocidura murina
11.	Small Indian Mangoose	Herpestes auropunctatus
12.	Yellow Throated	Martes flavigula
	Martin	
13.	Kashmir Vampire	Mergaderma spectrum
14.	Kashmir House rat	Rattus rattus
15.	Short-Tailed Bandicoot	Nesolia indica
	Rat	
16.	Birch Mouse	Sicista indica
17.	Small Kashmir Flying	Eoglaucomys fimbriat us
	Squirrel	
18.	Tibetan Wolf	Canis leupus

Avi-Fauna:

S.	Name of the Species	Zoological Name.
NO.		
1.	Grey Heron	Ardea cinera
2.	Pond Heron or Paddy Bird	Ardeota grayil
3.	Night Heron	Nycticorax nycticorax
4.	Blackeared Kite	Milvus migrans linetus.
5.	Eurasian Sparrow Hawk	Accipiter nisus melaschistos
6.	Golden Eagle	Aquila chrysaetos
7.	Himalayan Griffon	Gypsy Himalayensis
8.	Beared Vulture or	Gypaetus barbatus

	Lammergeier	
9.	Marsh Harrier	Gypaetus barbatus
10.	Hobby	Falco subbuteo
11.	Kestrel	Falco tinnunculus
12.	Himalayan snow cock	Tetraogallus
		himalayenis
13.	Chukar Partridge	Alcetoris chukar
14.	Monal Pheasant	Lophophorus
		impejanus
15.	Koklas Pheasant	Catreus wallichii
16.	Common Sandpiper	Triga hypoleucos
17.	Whiskered Tern	Childonias hybrida
18.	Snow Pigeon	Columba leuconota
19.	Rock Pigeon	Columba livia
20.	Rufous turtle Dove	Strptopelia orientalis
21.	Indian Ring Dove	Strptopelia decaocto
22.	Slatyheaded Prakeet	Psittacula
		himalayana
23.	Eurasian Cuckoo	Cuculus canorus
24.	Small Cuckoo	Cauculus polio
05	Dist.	cephalus Correla la malaria
25.	Himalayan Pied Kingfisher	Ceryle lugubris
26.	Lesser Pied Kingfisher	Ceryle rudis
27.	Common Kingfisher	Ceryle rudis
28.	White Breasted	Halcyon symmensis
	Kingfisher	
29.	European Bee-Eater	Meropsapi aster
30.	European Roller	Coracias garrulous
31.	Hoopoe	Upupa epops
32.	Blackthroated Jay	Garrulus lanceolatus
33.	Yellowbilled Blue Magpie	Cissa flavirostris
34.	Spotted Nutcracker	Nucifraga
		Caryocatactes
35.	Yellowbilled or Alpine	Pyrrhocorax graculus
	Chough	
36.	Redbilled Cough	Pyrrhocorax
37.	Eurasian Jackdaw	pyrrhocorax Corvus monedula
37.	Large-billed crow	Corves macrohynchos
		-
39.	Long tailed Minivet	Pericrocotus ethologus
40.	Himalayan Bulbul	Pycnonotus
10,		leucogenys

41.	Black Bulbul	Hypsipetes
10		madagascariensis
42.	Variegated Laughing Thursh	Garrulax Variegatus
43.	Streaked Laughing Thrush	Garrulaz lineatus
44.	Sooty Flycatcher	Muscicapa sibirica
45.	Rufoustailed Flycatcher	Muscicapa ruficauda
46.	Kashmir Flycatcher	Muscicapa
	5	Superciliari
47.	Little Pied Flaycatcher	Muscicapa
		leucomelanura
48.	White browed Blue	Muscicapa
	Flycatcher	superciliaris
49.	Stay Blue Flycatcher	Muscicapa
		superciliaris
50.	Grayheaded Flycatcher	Culicicapa celonensis
51.	Paradise Flycatcher	Terpsiphone paradise
52.	Brown flanked Bush warbler	Cetti Montana
5 3.	Clamarous reed warbler	Acrocephalus
		stentoreus
54.	Lesser Whitethroat	Syliva curruca
55.	Plain Leaf Warbler	Phylloscopus
		neglectus
56.	Tytler's Leaf Warbler	Phylloscopus tytleri
57.	Tickell's Leaf warbler	Phylloscopus affinis
58.	Yellow-bowed Leaf	Phylloscopus
	Warbler	inornatus
59.	Grey headed Flycatcher-	Seicerus
	Warbler	xeinthoschistos
60.	Gold crest	Regulus regulus
61.	Himalayan Ruby throat	Erithacus pectoralis
62.	Orange flanked Bush Robin	Erithacus cyanurus
63.	Black redstart	Phoenicurus ophoenicuroides
64.	Guldenstadt's Redstart	Phoenicurus erthrogaster
65.	Plumbeous Redstart	Rhyacornis fuliginosus
66.	Little Forktail	Enicurus scouleri
67.	Spotted Fork tail	Enicurus maculates
<u>68.</u>	White capped Redstart of	Chaimarrornis
00.	River Chat	leucocphalus

69.	Blue Whistling Thrush	Mylophonus
03.	Dide winstning fill dsh	caeruleus
70.	Tickell's Thrush	Turdus unicolor
71.	Mistle Thrush	Turdus viscivorus
72.	White breasted Dipper	Cinclus cinclus
73.	Brown Dipper	Cinclus pallasii
74.	Great Tit	Parus major
75.	Green blacked Tit	Parus monticolus
76.	Crested BlackTit	Parus Melanlophus
77.	Firecapped Tit	Cephalopyrusflamm- flammniceps
78.	Kashmir Nuthatch	Sitta europea cashmirensis
79.	Himalayan Tree Creeprer	Certhia Himalayan
80.	Brown Rock Pipt	Anthus similes
81.	Yelow Wagtail	Motacilla flava
82.	Citrine Wagtail	Motacilla citreola
83.	Grey Wagtail	Motacilla cinerea
84.	White Wagtail	Motacilla alba
85.	Oriental White-Eye	Zosterops palpebrosa
86.	House Sparrow	Passer domesticus
87.	Tree Sparrow	Passer montanus
88.	Cinnamon Tree Sparrow	Passer rutilans
89.	Black and Yellow	Coccothraustes
	Grosbeak	icteriodas
90.	European Goldfinch	Coccothraustes
01		icteriodas
91.	Himalayan Greenfinch	Cardaelis spinoides
92.	Common Rosefinch	Carpodacus
93.	Orange Bullfinch	erythrinus Carpodacus
55.	Oralige Dullinen	erythrinus
94.	Rock Bunting	Emberiza cia
	BUTTERFLIES	
1.	Regal Apollo	Parnassius
		charltonius
2.	Common Blue Apollo	Parnassius
0		hardvricket
3.	Common Red Apollo	Parnassius epaphus
4.	Brown Argus	Dallacha hyagriva
5.	Mountain Argus	Callerebia shallada
6.	Meadow Brown	Maniola pulchara
7.	Narrowbanded Satyr	Aulocera brhamnius

8.	Large Tortoise shell	Nymphalis
		xanthomelas
9.	Blackleg Tortoise shell	Nymphalis
		polychloroas
10.	Mountain Tortoise shell	Aglais urtiacae
11.	Indian Tortoise shell	Aglais cashmirensis
12.	Chocolate pansy	Precis iphita
13.	Lemon Pancy	Precis lemoniass
14.	Orange Oakleaf	Kallima inachus
15.	Common Beak	Libythea lepita
16.	Lesser Punch	Dodona dipoea
17.	Tailed Punch	Dodona eugenes

Gulmarg Wildlife Sanctuary Area: Admiinistrative Control

The total area of the Gulmarg Wildlife Sanctuary is 180 Kms which involves the top catchment of Ferozpur Nallah and forests surrounding the Gulmarg Bowl. The Gulmarg Wildlife Sanctuary has two administrative units Ferozpora /Tangmarg and Block Gulmarg. The compartment No. 54 to 58 are treated as Upper elevations of the sanctuary whereas Compartment No. 31 to 41 are treated as Lower/Gulmarg Bowl.

The upper elevations of Compartment No. 50-58 i.e 50-53 of Drang Nalla and 54-58 of Ferozpora Nalla have been handed over to the Department of Wildlife Protection Jammu & Kashmir during the year 1984 and Compt. No.41 during the year 2003, whereas rest of the Compartments. From 31-40 (Ten Compartments) of Wildlife Sanctuary Gulmarg are still under the administrative control of Territorial Forest Division, Tangmarg.

The Map showing the administrative control by the two different departments over the Gulmarg Wildlife Sanctuary area is appended at Annexure- (). About 120 Sq.Km area consisting of Alpine and middle area managed by the Department of Wildlife Protection and about 60 Sq.Km bowl and lower area which is administrated by the Jammu & Kashmir Forest Department .

The area which is being managed by the Department of Wildlife Protection does not have any boundary dispute and there is no encroachment in that portion of the Wildlife Sanctuary area. Whereas, the Wildlife Sanctuary area falling in the bowl has boundary disputes between various stake holder organizations operating in Gulmarg area. As per the latest Court directions the delineation of the actual boundary of the Sanctuary has been started in association with Gulmarg Development Authority, Revenue and Territorial organization.

<u>Gulmarg Gandola</u>:-

The construction of Gulmarg Gandola Phase 1st was started in 1988 and was commissioned during the year 1998 and the 2nd phase of Gulmarg Gandola was started in the year 2003 and commissioned during the year 2005. The total length of the phase 1st and 2nd Gulmarg Gandola is 6000 Mtrs from base to Kongdoori and from Kongdoori to Affarwat. The number of towers supporting Cable car are 37 out of which 18 towers falls in Compartment No.38 and 19 towers in Compartment No.50. The entire Gondola route is falling within the confines of Gulmarg Wildlife Sanctuary.

Tourism related activities in Gulmarg:-

All the tourism related activities carried out by different organizations like Gulmarg Development Authority, Gulmarg Cable Car Corporation, J&K Tourism Development Corporation, Department of Tourism within the Gulmarg bowl contravene the Wildlife Protection Act 1978 amended up to 2002.

In addition to these activities various Army installations are also exiting within the confines of the Gulmarg Wildlife Sanctuary.