

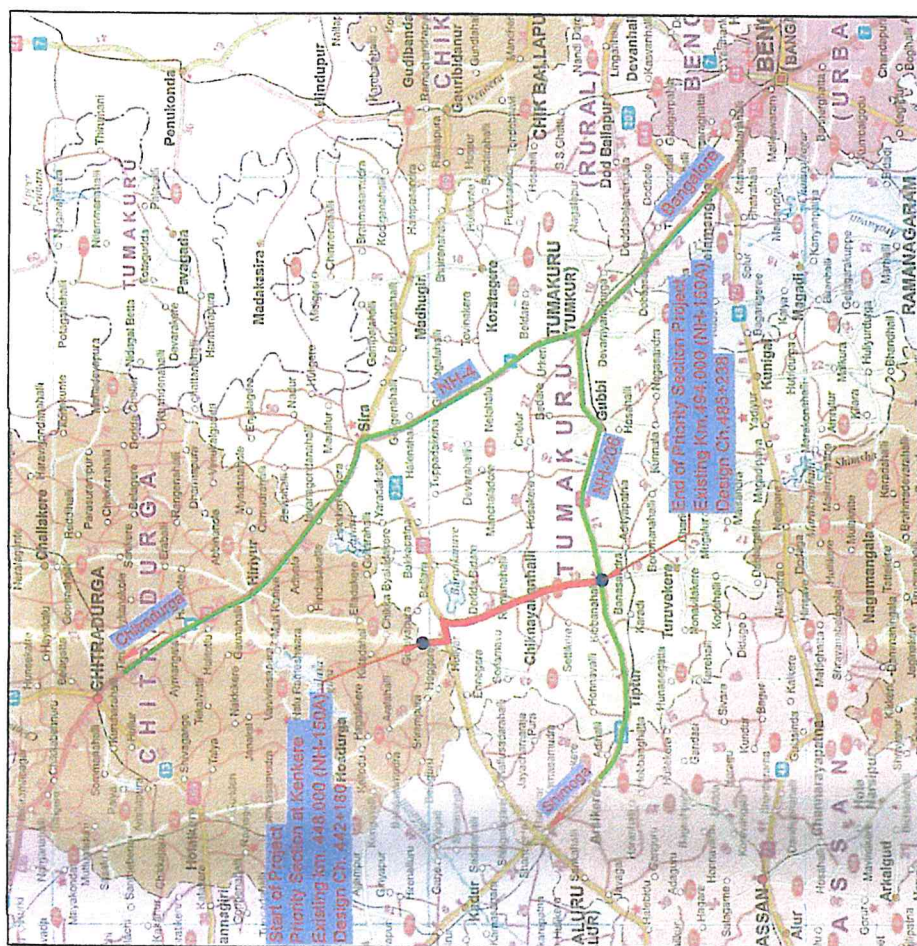
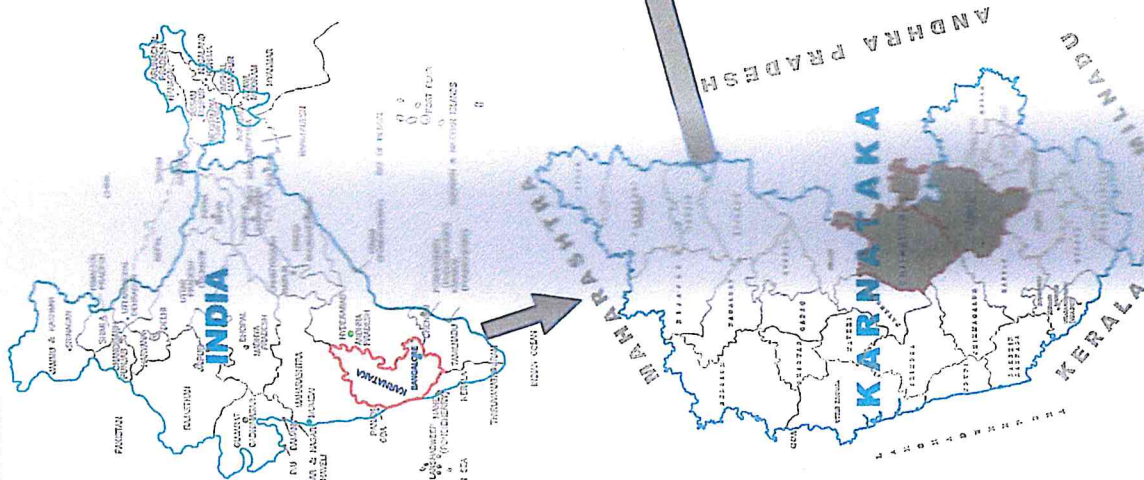


GOVERNMENT OF KARNATAKA
(PUBLIC WORKS, DEPARTMENT)
(NATIONAL HIGHWAYS)

WILDLIFE MITIGATION PLAN

Division of 2.5254 Ha of forest land in Forest Division Tumkur, Kenkere village Chiknayakanahalli Taluk, Tumkur District for Reconstruction of two-lane road with Paved shoulders from Huliyaar to K.B.Cross section and from K.B.Cross to Nelligere section of NH-150A in the State of Karnataka on EPC Mode".
under forest conservation Act 1980.

Executive Engineer
National Highway Division
Tumkur

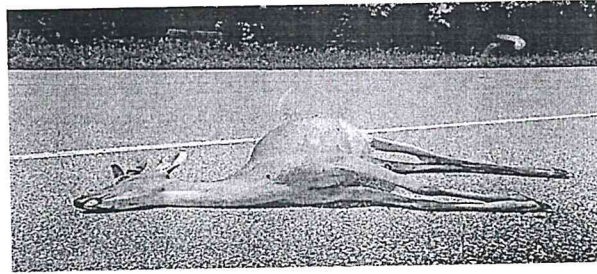
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Wildlife mitigation plan

1.0 Introduction

National Highway 150A originates from Jeevargi in Karnataka state and terminates in Chamarajnagara in Karnataka state. This National Highway is important strategic Highway linking National Highway- 4 at Hiriyur , National Highway- 234 at Huliya, National Highway -206 at K.B.Cross and National Highway-75 at Bellur cross . This National Highway passes in Tumkur National Highway Division through Huliya, Chikkanayakanahalli, K.B.Cross, Turuvekere and AdiChunchanagiri and Bellur Cross and also this National Highway passes through Srirangapattana, Mysore, Nanjangudu, towns and terminates at Chamarajnagar in Karnataka state. The total length of the road in Tumkur Division is 112.00 Km (from Km 494.00 to Km 606.00).

Animals move through the land scape for variety of reasons and often interact with roads, Traffic and other linear infrastructure. There is always a risk of collision with a vehicle if the animal attempts to cross the road, resulting in injury or death (road kill) of the animal and sometimes commuters. The rate of wildlife – vehicle collisions (WVC) has been increasing globally; the loss of wildlife from motor collision is substantial and is one of the main causes of wildlife mortality in our country. The location of the Road in the landscape, Traffic Volume, Vehicle speed, and infrastructure provided to the wildlife to cross over and improvements of their habitats etc. Understanding all the factors that influence their occurrence are essential to avoid high risk areas and designing effective mitigation measures.



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2.0 Reason for Conservation

Road that passes through reserve forest and causes lot of disturbance to the inhabiting wildlife and acts as a barrier for movement of animals from one forest patch to another so appropriate measures have to be taken to keep the disturbances to a minimum.

3.0 Observation

During survey, it was found that lot animals have been killed while attempting to cross the national highway, as the highway bisects the habitat into two. The Animals invariably cross from one part of the forest to other part in search of food and water.

4.0 Possible Impacts and its Mitigation Measures of the Project.


Possible Impact and its Mitigation Measures from Plant Operation

5.0 Conservation Measures

- i. Green belt/plantation will be developed all along the plant boundary, roads and other places for control of air, odour, fugitive dust emission in the proposed expansion project area as well as in study area where suitable land is available.
- ii. Grassland will be developed where suitable land is available in consultation with Forest Department.
- iii. Availability of water throughout the year will be maintained by artificial water holes and ponds deepening wherever required.
- iv. Fire prevention measures will be taken in the forest areas so that fire wont spread from road into the forest. Sparks form exhaust of vehicles and mischievous commuters may lead to forest fire and devastate the forest area. Hence appropriate measures have to be taken to counter this threat.

Action Plan for Conservation Wildlife

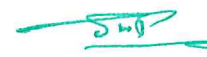
- i. Plantation will be developed near the water bodies/ water hole wild animals and water availability and it will be maintained regularly.
- ii. It is proposed to construct two underpasses at selected sites so that animals can easily cross one side of the road to other freely. This is very essential to ensure easy passes of animals and also safety of the passengers on the road.
- iii. Only indigenous species will be preferred for plantations and grasslands.
- iv. Public awareness will play a major role in coravation of any wildlife. So, various public awareness activities like seminars, conferences, natureclub, poster presentation at school and Gram Panchayat, nature education camps for students and villages around wildlife habitation .
- v. Wildlife Signage will be used on a very large scale along the road to create awareness.
- vi. To conserve the wildlife it is important to provide a wildlife rescue centre or to provide adequate facilities for treating wildlife should be made available in nearby veterinary hospital.
- vii. Various wildlife Days, Environment Days and Wildlife Week (1st to 7th Oct) will be celebrated in collaboration with forest department to create awareness among the local people for the conservation of wildlife.
- viii. It is also proposed chain link mesh on either side of underpasses upto 50 mtr so has to avoid crossing of wild life over the road.


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Sl.No	Conservation Activities	Expenditure in lakhs
1	Planting of Buffer plantation along the road inside forest area.	20
2	Desilting of Water holes/Natural ponds in the surrounding forest area (5 lakhs per year)	15
3	Soil and moisture conservation works in the surrounding forest area.	20
4	Construction of watch towers to detect fire 1 No.	05
5	Construction of water harvesting structure in surrounding forest area.	30
6	Development and management of grassland	20
7	Construction of underpass for movement of wild animals across the road	To be executed by user agency.
8	At underpass (animals crossing) fencing to be provided for 200 mts on four sides.	To be executed by user agency.
9	Erection of display boards at vantage points to bring awareness among commuters.	To be executed by user agency.
total		110




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Recommended for approval.


Deputy Conservator of Forests
Tumakuru Division, Tumakuru.