

**GOVERNMENT OF ANDHRA PRADESH  
FOREST DEPARTMENT**

**From**

Sri. Y. Madhusudhana Reddy, I.F.S.,  
Prl. Chief Conservator of Forests (WL) &  
Chief Wildlife Warden,  
Andhra Pradesh, Aranya Bhavan,  
Mangalagiri – 522503.

**To**

The Project Director,  
Project Implement Unit,  
D.No.1-69/6,  
Near Sai Baba Temple,  
Ganesh Nagar,  
Chinamushidiwada,  
Visakhapatnam 530051

**Rc.no. 3307/2023/WL-2 , Date:23.05.2023**

**Sub:-** Andhra Pradesh Forest Department – Wildlife – Diversion 60.06 ha. of forest land for rehabilitation and up-gradation to two lane with paved shoulder configuration of Koyyuru – Chaparathipalem – Lammasingi, Paderu section of NH-516E - Bio-diversity Impact Assessment and Wildlife Mitigation Plan – Approved - Reg.,

**Ref:-** CCF, Visakhapatnam Rc.no. 3956/2020/TO Dated 12.04.2023

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Under the circumstances reported by the CCF, Visakhapatnam in the reference cited, the Bio-diversity Impact Assessment and Wildlife Mitigation Plan is hereby approved for the proposed rehabilitation and up-gradation of two lane with paved shoulder configuration of Koyyuru – Chaparathipalem – Lammasingi, Paderu Section of NH-516E. The details are as follows:

- The Project road is located in erstwhile Visakhapatnam District (presently in Alluri Seetharama Raju and Anakapalli Districts) of Andhra Pradesh and starts from Koyyuru (17°38'9.47"N Latitude, 82°13'58.49"E Longitude) and ends near Paderu (18° 5'58.52"N Latitude, 82°40'20.65"E Longitude) connecting to Rajahmundry to Vizianagaram highway. The length of project highway is 133.974 Km.
- Forest jurisdiction: The project road covers two (2) Forest Divisions viz., Paderu and Chinthapalli Divisions. The total forest land required for the project is 60.06 ha, which comprises 59.82 ha in Chinthapalli (Erstwhile Narsipatnam) Division and 0.24 ha in Paderu Division.
- The proposed project location 82.25 km away from Kambalakonda Wildlife Sanctuary.
- The study of the proposed project carried out core and buffer zones (up to 10 km radius) in the following RFs. i.e., Bointhi RF, Sarugudu - VI RF, Chinthapalli RF, Wangasara RF, Lammasingi –I RF, Krishnapuram RL and Sirasapalli RF.
- From the secondary data and indirect evidence during the site visit, the predominant species found are Sloth bears, Deers, Wild boars etc, Bonnet macaque (*Macaca radiate*), Rhesus macaque (*Macaca mulatta*), Wild boar (*Sus scrofa*), Indian hare (*Lepus nigricollis*), Grey House shrew (*Suncus murinus*) and Indian Tree shrew (*Anatha elioti*).
- Birds are very common near the aquatic habitats and terrestrial habitats. Peafowls are found near the ponds. Among the reptiles, Skinks, Geckos,

lizards are commonly sighted. Snakes such as Krait, Common Tree Snake, Saw scaled wiper, Russell's earth boa, Johns earth boa, Common wolf snake, Indian Cobra, Common Rat snake and Green pit viper are present.

- The following mitigation measures are suggested:
  - Plantation and other Habitat Improvement activities within the Forest Areas.( Avenue Planation /Greenbelt plantation)
  - Development of Infrastructure.
  - Habitat enrichment works.
  - Wildlife Research and Monitoring works.
  - Protection of Wildlife
  - Publicity and Awareness
  - Species specific general Mitigation measures.
  - Under Passes (Animal Passages)
- 28 no. of new structures and 63 no. existing structures are being improved as animal passages proposed by the User Agency cost of User Agency.
- Financial Plan.

Management intervention in the impact area	Estimated cost(Rs.in lakh)
Raising Avenue plantations/ Greenbelt plantations along the road.	The cost is to be included in the project cost and to be borne by User agency)
Underpasses and Rumble strips on the road to be constructed by User Agency in Consultation with DFO.	
Hoardings and signage's (Animal crossing, Don't feed animals, No horn zone etc.,) in every 400 m (at straight path) and in every 100 m (at the turns) on the road where it passes through forest.	
Wildlife Conservation Plan for Schedule -I fauna observed in the Study area. (Habitat improvement)	200.00
Wildlife Mitigation works proposed within project area. (Protection and Mitigation)	86.00
<b>Total</b>	<b>286.00</b>

Encl: - Bio-diversity Impact Assessment and Wildlife Mitigation Plan

**Sd/- Y.Madhusudhana Reddy**  
Prl. Chief Conservator of Forests (WL) &  
Chief Wildlife Warden

Copy to the PCCF (FCA) O/o PCCF & HoFF, AP, Mangalagiri for information and necessary action.

Copy to the Chief Conservator of Forests, Visakhapatnam for information and necessary action.

Copy to the Divisional Forest Officers, Chintapalli and Paderu for information and necessary action. He is request to submit detailed plan for the Conservation & Management of Langurs and get approval from the competent authority before utilizing funds under the relevant head.

Copy to the Curator, IGZP, Visakhapatnam for information and necessary action. She is requested to submit detailed plan before utilization of funds in IGZP, Visakhapatnam for conservation of Schedule-I fauna.

//True copy//

Bhej  
25/5/23

Dy. Conservator of Forests (WL)

25.05.2023



## 6.2. FINANCIAL PLAN

Sl.no.	Management intervention in the core area	Estimated cost(Rs.in lakh)
1	Raising Avenue plantations/ Greenbelt plantations along the road.	It is a part of scope of work and to be taken up by EPC Contractor of MoRTH.
2	Underpasses and Rumble strips on the road to be constructed by User Agency in Consultation with DFO.	
3	Hoardings and signage's (Animal crossing, Don't feed animals, No horn zone etc.,) in every 400 m (at straight path) and in every 100 m (at the turns) on the road where it passes through forest.	
4	Wildlife Conservaiton plan for Schedule -I fauna observed in the Study area. (Habitat improvement)	200.00
5	Wildlife Mitigation works proposed within project area. (Protection and Mitigation)	86.00
	<b>Total</b>	<b>286.00</b>

*Sanishet*  
14/12/2022  
Project Director,  
Project Implement Unit  
Visakhapatnam

*28/3/2023*  
District Forest Officer,  
Chintapalli

*1/2/2023*  
Divisional Forest  
Officer, Paderu

*12/4/23*  
Chief Conservator of Forests,  
Visakhapatnam

*[Signature]*  
Prl. Chief Conservator of Forests (WL) &  
Chief Wildlife Warden

**Wildlife Conservation Plan for Schdule-I Fauna observed in the Study Area.**

S.No	Particulars	Nos	Unit cost (Rs in Lakhs)	Total amount (Rs in Lakhs)
1	Conservation and Management of Langurs	LS	LS	10.00
2	Habitat improvement works in the forest areas	LS	LS	20.00
3	Solar based automatic water filling system with borewell and storage pit	10	5.00	50.00
4	Establishing Salt licks	LS	LS	4.00
5	Detailed study to understand the long-term impact on wildlife due to expansion of project	LS	LS	25.00
6	Ecological monitoring at a gap of every 4 to 5 years to understand the wildlife population and effectiveness of mitigation.	3 times	2.00	6.00
7	Soil and moisture conservation measures in RF areas in Zone of influence a) CCTs b) RFDs Small Check dams	LS	LS	50.00
8	Equipment for wildlife monitoring and research	LS	LS	10.00
9	Development of Waterholes/ small ponds in RF areas	30 No	0.50	15.00



10	Water storage and retention structure / Saucer pits	20	0.50	10.00
	<b>Grand total</b>			<b>200.00</b>

**Note:** Part of the above Conservation plan amount will be utilized at Indira Gandhi Zoological Park, Visakhapatnam which is nearest Zoo Park for conservation of Schedule -I fauna in consultaion with the Chief Wildlife Warden, Andhra Pradesh.

**Wildlife Mitigation works proposed within project area. (Protection and Mitigation)**

S.No	Particulars	Total amount (Rs in Lakhs)
1	Cost of drones 2 no. for monitoring wild animal movement @ 3,00,000/ drone	6.00
2	For protection and anti-depredation activity in Chinthapalli Forest Division with 2 no of squads with 10 persons.	70.00
3	Corpus fund/ emergency fund	10.00
	<b>Grand total</b>	<b>86.00</b>

**Note:** The entire mitigation plan amount will be utilized on the impacted areas in and around the project area for mitigation of fauna.

**Table: 6.2 YEAR WISE FINANCIAL PLAN\* (Rs. In Lakhs)**

Year	1	2	3	4	5	6
	2022-2023 (Rs in Lakhs)	2023-2024 (Rs in Lakhs)	2024-2025 (Rs in Lakhs)	2025-2026 (Rs in Lakhs)	2026-2027 (Rs in Lakhs)	Total (Rs in Lakhs)
Conservation and Management of Langurs	5.00	3.00	2.00	0.00	0.00	10.00
Habitat improvement works in thre	5.00	5.00	5.00	5.00	0.00	20.00
Solar based automatic water filling system with borewell and storage pit	20.00	20.00	10.00	0.00	0.00	50.00
Establishing Salt licks	1.00	1.00	1.00	1.00	0.00	4.00
Detailed study to understand the long-term impact on wildlife due to expansion project	5.00	5.00	5.00	5.00	5.00	25.00
Ecological monitoring at a gap of every 4 to 5 years to understand the wildlife population and effectiveness of mitigation.	2.00	1.00	1.00	1.00	1.00	6.00
Soil and moisture conservation measures in RF areas in Zone of influence c) CCTs d) RFDs Small Check dams	10.00	10.00	10.00	10.00	10.00	50.00

Equipment for wildlife monitoring and research	2.00	2.00	2.00	2.00	2.00	10.00
Development of Waterholes/ small ponds in RF areas	3.00	3.00	3.00	3.00	3.00	15.00
Water storage and retention structure / Saucer pits	2.00	2.00	2.00	2.00	2.00	10.00
Cost of drones 2 no. for monitoring wild animal movement @ 3,00,000/ drone	6.00	0.00	0.00	0.00	0.00	6.00
For protection and anti-depredation activity in Chinthapalli Forest Division with 2 no of squads with 10 persons.	14.00	14.00	14.00	14.00	14.00	70.00
Corpus fund/ emergency fund	10.00	0.00	0.00	0.00	0.00	10.00
<b>Grand total</b>	<b>115</b>	<b>46</b>	<b>45</b>	<b>43</b>	<b>37</b>	<b>286.00</b>