



Ministry of Road Transport & Highway
Government of India



Public Works Department
Government of Karnataka

Wild Life Mitigation Plan

Name of the Project: Construction of 2 Lane with Paved shoulder from Km 56.00 to Km 90.70(existing chainage) of NH-766C (complete Realignment of 13.832 Km) with 2 Major Bridges across Sharavathi Backwater on EPC mode under Annual Plan 2022-23 in the State of Karnataka –
ADUGODI TO MAVINAKOPPA

Proposal No: FP/KA/ROAD/156224/2022

Applicant/User Agency:
The Superintending Engineer-Regional Officer
KSCFL Building, Race Course Road, Ministry of Transport
and Highways, Bangalore

WILDLIFE MITIGATION PLAN

Introduction:

The diversion of forest land proposed for the Diversion of 18.844 Ha of Forest land in Hosanagara (T), Shimoga (D) for Construction of 2L+PS road from km 55.60 to km 90.70 mavinakoppa of NH 766 C with major Bridges across Sharavathi back Water in favour of Executive Engineer, National Highways Division, Shivamogga. The Proposed project requires diversion of 25.763 ha forest land in about 7 villages of Hosanagara taluk in Sagar division. The new Road National Highway project starts at Mavinakoppa Village and ends at Adagodi Village (Bekkodi) with a length of 13+832 km. This Road covers in Shivamogga district. The details of forest land involved in the proposed project are given in the following **Table-1**

Table-1: Details of Forest Land Proposed for the Construction of Audugodi To Mavinakoppa

Sl. No	District	Forest Division	Taluk	Name of Forest Area	Village	Sy. No.	Area in Ha	Length of Forest Land in (m)
1	Shimoga	Sagara Division	Hosanagara	Transferred Land from Revenue Dept.(G.O. No. RD 32 LAD 62 Dt: 01.08.1964 & 06.07.1965	Ganganakoppa	13	0.420	73.542
2	Shimoga	Sagara Division	Hosanagara	Transferred Land from Revenue Dept.(G.O. No. RD 32 LAD 62 Dt: 01.08.1964 & 06.07.1965	Ganganakoppa	21	0.337	112.364
3	Shimoga	Sagara Division	Hosanagara	Transferred Land from Revenue Dept.(G.O. No. RD 32 LAD 62 Dt: 01.08.1964 & 06.07.1965	Ganganakoppa	5	0.430	143.341
4	Shimoga	Sagara Division	Hosanagara		Kaluru	133	0.670	223.404

5	Shimoga	Sagara Division	Hosanagara		Kaluru	136	0.062	19.792
6	Shimoga	Sagara Division	Hosanagara	Transferred Land from Revenue Dept.(G.O. No. RD 32 LAD 62 Dt: 01.08.1964 & 06.07.1965	Sutta	10	1.635	577.26 2
7	Shimoga	Sagara Division	Hosanagara	Transferred Land from Revenue Dept.(G.O. No. RD 32 LAD 62 Dt: 01.08.1964 & 06.07.1965	Sutta	62	0.810	237.738
8	Shimoga	Sagara Division	Hosanagara	Transferred Land from Revenue Dept.(G.O. No. RD 32 LAD 62 Dt: 01.08.1964 & 06.07.1965	Sutta	75	0.165	55.125
9	Shimoga	Sagara Division	Hosanagara	Manasetti Section-4	Manasette	38	1.861	621.12 8
10	Shimoga	Sagara Division	Hosanagara	L.Guddekoppa Reserved Forest	L.Guddekoppa	45	0.222	73.713
11	Shimoga	Sagara Division	Hosanagara	L.Guddekoppa Reserved Forest	L.Guddekoppa	46	1.260	419.947
12	Shimoga	Sagara Division	Hosanagara	Deemed Forest	L.Guddekoppa	27	2.070	691.476
13	Shimoga	Sagara Division	Hosanagara	Deemed Forest	Hebburli	204	3.141	1045.35 4
14	Shimoga	Sagara Division	Hosanagara	Hebburuli Reserved	Hebburli	221	3.612	1,194.71
15	Shimoga	Sagara Division	Hosanagara	Hebburuli Reserved	Hebburli	51	3.289	1,094.15 3
16	Shimoga	Sagara Division	Hosanagara	Hebburuli Reserved Forest	Hebburli	44	1.517	502.222

17	Shimoga	Sagara Division	Hosanagara	Transferred Land from Revenue Dept.(G.O. No. RD 32 LAD 62 Dt:01.08.1964 & 06.07.1965	Hosuru	43	0.530	161.428
18	Shimoga	Sagara Division	Hosanagara	Adugodi Reserved Forest	Adugodi	74	1.992	681.37
19	Shimoga	Sagara Division	Hosanagara	Adugodi Reserved	Adugodi	79	1.740	490.952
Total							25.763	12654

The proposed Diversion area inhabits wild animals like Indian Gaur (*Bos gaurus*), Sambar (*Cervus unicolor*), Munt Jack (*Muntiacus muntjac*), Wild Boar (*Sus scrofa*), Hanuman Langoor (*Macaca semnopethicus*), Giant squirrel (*Ratufa indica*), King Cobra (*Ophiophagus hannah*) and other reptiles and Birds like Peacock (*Pavo cristatus*), Malabar Grey Hornbill (*Ocyrceros birostris*). Animals move through the landscape 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 National Highway 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 road collision is substantial and is one of the causes of wildlife mortality in our country. The location and timing of WVC are influenced by the location of the NH road in the landscape, traffic volume, vehicle speed and infrastructure provided to the wildlife to cross over and improvement of their habitats etc. understanding all the factors that influence their occurrence are essential to avoid high risk areas and designing effective mitigation plans and adaptive measures.

Need for wildlife Management Plan

Wildlife habitat is considered as the environment used by an animal and is essential for food, mating, cover and other requirements for survival. Any disturbance or loss of such habitat will have adverse effect on the overall population of the animals which live in that area. Whereas, linear projects such as irrigation canal is important to the country for economic growth and to meet the demands of basic needs of the people. Hence, incorporating the ecological considerations into modern design techniques will result in favourable win to win approach to safeguard the interests of both wildlife and people.

In this context, the objectives of the present Wildlife Management & Mitigation plan are as follows:

- To provide a plan to mitigate the impacts due to construction of track inside the forest areas.
- To provide wildlife-crossings at suitable places, which are comfortable and conducive for wildlife movement across the proposed canal.
- To provide structures such as crossings, overpass bridges, culverts, water holes, etc so as not to disrupt the wildlife behavior and its activities.
- To improve the habitat factors by augmenting the availability of water to wildlife during pinch period and by carrying out plantation of suitable species.
- To ensure the safety of wildlife by erecting Road fence along the track to prevent road kills and accidental falls on the track.
- Monitor of wildlife crossings and study the long – term impacts.

ANTICIPATED IMPACTS

Habitat Fragmentation

Habitat fragmentation is defined as a process during which 'a large area of habitat is transformed into a number of smaller patches of smaller total area, isolated from each other by a matrix of habitats unlike the original' (Wilcove *et al.*, 1986).

Construction of the track acts as a physical barrier for wildlife, the species belonging to the area proposed for track construction will lose their habitat and fragmentation will take place. Animal movement will be blocked and chances of animals fall into the canal result in death or injury.

Loss of Habitat

The area proposed for diversion is a habitat for antelopes and sloth bears along with other species. Habitat loss has direct negative effect on genetic diversity and population growth rate. Habitat loss occurs when an area of suitable habitat is altered and becomes unsuitable leading to displacement of resident species. However, landscape as a whole, the area proposed for diversion is small and any changes occurred would be recoverable with appropriate mitigation measures.

Disturbance during project implementation

Impacts due to labour force for construction activities will lead to establishment of campsites, generation of sewage, waste water and solid waste. Further, they may engage in activities that are detrimental to natural habitat such as hunting, illegal extraction of timber for fuel wood and non-timber forest products.

Air and noise pollution will arise due to activities such as excavation, cutting, drilling and filling and compaction work, as well as operation of construction related vehicles during the construction phase will cause disturbance to the wild animals. This can be avoided by following appropriate mitigative measures.

National Highway Road kills/accidental fall on to track

The alignment of Road at isolated stretches of 6.293km in forest area may lead to National Highway road kills of wildlife during its movement to the other side of the track. Accidental fall of animal's especially small and medium sized animals on to the track will result in death or injury to these animals. This can be avoided with erection of Road fencing on either sides of the track.

WILDLIFE MANAGEMENT PLAN

The impacts stated earlier can be minimized through several mitigation measures which are a part of the Wildlife Management Plan. The mitigation measures are as follows:

Provision of Wildlife crossings

Wildlife, like any other living species require the primary needs of food, shelter, water and territory to roam, hunt, search for food etc., the construction of canal in the WLS may pose as a barrier restricting the movement of animals. Daily, weekly or seasonal movements across landscape are necessary for the most terrestrial species.

It may not be a serious threat for the smaller mammal and other terrestrial species but the large mammals may get highly affected. This leads to habitat fragmentation and the major impacts are as follows (Jaeger *et. al.*, 2005):

- Limits the availability of habitat for any wild species
- Prevents access to water and other resources on the other side of the canal
- Subdivide wildlife populations into smaller and more vulnerable sub-populations.
- Affects the regular movement path of the wildlife.

Hence it is necessary to construct wildlife crossings in order to facilitate the smooth movement of animals all through its natural habitat. The crossing over construction is necessary for the following elements:

- To restore pre-development wildlife movement pattern
- To reduce wild life physical barrier due to canals

These structures allow animals to cross human – made barriers safely. These crossings

may include: underpass tunnels, viaducts and overpasses (mainly for large or herd-type animals) amphibian tunnels, tunnels and culverts (for small mammals) green roofs (for butterflies and birds) (Bank *et al.*, 2002). All of these structures are designed to provide semi-natural corridors above and below human constructed barriers like canals so that animals can safely cross without endangering themselves.

Wildlife crossings are a practice in habitat conservation, allowing connections or reconnections between habitats, combating habitat fragmentation. They also assist in avoiding falling on the track.

Conservation Measures

- i) Green belt/plantation will be developed all along the roads and other places for control of air, odour, and fugitive dust emission in the proposed expansion project area as well as in study area where suitable land is available.
- ii) Green shelter belt will be developed along the roadside.
- 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 won't spread from road into the forest. Sparks from 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 of Wildlife

- Plantation will be developed near the water bodies and water availability and its quality will be maintained regularly.
- Underpasses will be created at selected sites so that animals can easily cross from one side of the road to other freely. This is very essential to ensure easy passage of animals and also safety of the passengers on the road. The locations of underpasses have been shown in the map below.
- Only indigenous species will be preferred for plantations and grasslands.
- Public awareness will play a major role in conservation of any wildlife. So, various public awareness activities like seminars, conferences, nature club, poster presentation at school and gram panchayath, nature education camps for students and villagers around wildlife habitation.
- Wildlife signage will be used on a very large scale along the road to create awareness.

- 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.
- 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.

SL No.	Conservation Activities
1	Planting of buffer plantation along the National Highway Road inside the forest area.
2	Construction of underpasses for movement of wild animals across the National Highway Road.
3	At under passes (animal crossing) fencing to be provided for 200 mtr on four sides & also on either side of forest land.
4	Erection of display boards at vantage points to bring awareness among commuters

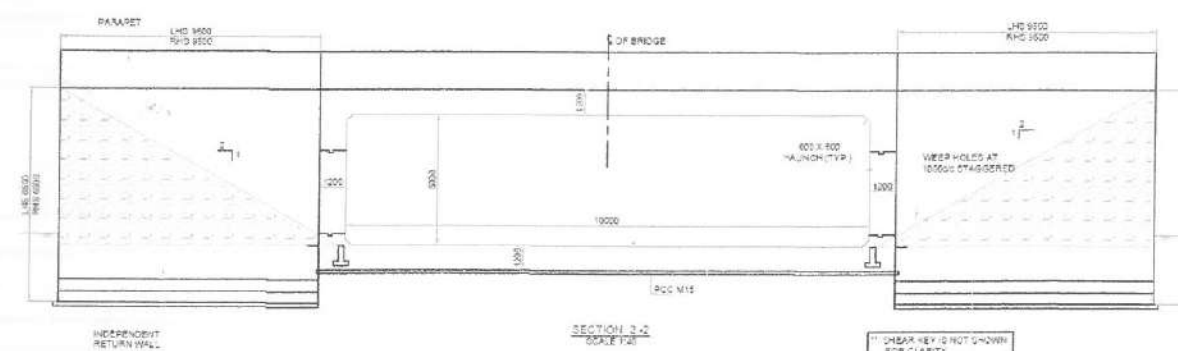
CONSERVATION ACTIVITIES PROPOSED BY DCF SAGAR

Considering the Wildlife movements in the proposed stretch of National Highway Road DCF Sagar have proposed following physical structures which facilitate the easy movement of wildlife across the National Highway Road and avoid any wildlife casualties due to road accidents.

1. Construction of under passes

Total of 13 underpasses/overpasses are planned to be constructed in the proposed project. That includes below 2 structures proposed by DCF Sagar (Table 2). Some of the sketches along with ID no. of the underpasses are attached with this report Annexure-1

Typical Cross Section of Animal Underpass



Bridge No.	Forest Area Chainage	Underpass Chainage	Structure for wildlife crossing (No. of openings× width×height)	GPS Readings of the proposed Bridges	Remarks
1	4+330 To 5+024	4+430	1x2mBOX RCC	13.906°N 75.037°E	For passage of wild life from one side of alignment to other side (Manasatte - Sy.No.38)
2	5+450 To 5+904	5+460	1x3m SLAB RCC	13.905°N 75.0284°E	For passage of wild life & water from one side of alignment to other side (L.Guddekoppa Sy.No.27 & 46)
3	8+290 To 8+960	8+640	1x2mBOX RCC	13.899°N 75.0005°E	For passage of wild life & water from one side of alignment to other side (Hebburuli - Sy.No.221)
4	9+02 To 9+240	9+100	1x2mBOX RCC	13.899°N 74.996°E	For passage of wild life & water from one side of alignment to other side (Hebburuli - Sy.No.221)
5		9+240	1x2mBOX RCC	13.899°N 74.995°E	For passage of wild life & water from one side of alignment to other side (Hebburuli - Sy.No.221)
6		9+420	1x2mBOX RCC	13.8999°N 74.993°E	For passage of wild life & water from one side of alignment to other side (Hebburuli - Sy.No.221)
7		10+200	2x1.2m PIPE CULVERT	13.902°N 74.986°E	For passage of wild life & water from one side of alignment to other side (Hebburuli - Sy.No.51)
8		10+400	2x1.2m PIPE CULVERT	13.902°N 74.984°E	For passage of wild life & water from one side of alignment to other side (Hebburuli - Sy.No.51)

9	9+965 To 11+286	10+680	2x1.2m PIPE CULVERT	13.903°N 74.982°E	For passage of wild life & water from one side of alignment to other side (Hebburuli - Sy.No.51)
10		11+170	1x2m BOX RCC	13.905°N 74.978°E	For passage of wild life & water from one side of alignment to other side.(Hebburuli Sy.No.44)
11		11+220	16mx10m RCC BOX	13.906°N 74.978°E	For passage of wild life & water from one side of alignment to other side. This underpass is proposed by DCF Sagar (Hebburuli - Sy.No.44)
12	12+660 To 13+832	12+760	16mx10 mRCC BOX	13.908°N 74.959°E	For passage of wild life & water from one side of alignment to other side. This underpass is proposed by DCF Sagar (Adgodi - Sy.No.74)
13		12+960	1x2m RCCBOX	13.907°N 74.955°E	For passage of wild life & water from one side of alignment to other side (Adgodi - Sy.No.79)

2. Construction of Chain link Mesh Fencing

Construction of Chain link mesh Fencing is proposed on either side of the National Highway Road which passes through Forest area. The Chain link mesh Fencing prevents wildlife crossing across the Roads and guides them towards the underpasses which are proposed to be constructed.

The above conservation activities proposed by DCF Sagar have been included in the Mitigation plan for movement of wild life across the road. Along with that voluntarily few more under passes are provided and Chain link Mesh Fencing will be provided on either side of road to prevent wild animals crossing on entire length of the Road passing through forest area except at the proposed wild life crossing structures. The details of chain-link fencing points is shown in Table-3.

Proposed Road Chain Link fencing along the alignment on either side of the road (Table-3)

SL No.	Chainage		Length in Km	Remarks
	From	To		
1	0+000	0+073	0.073	Chain link Mesh Fencing will be provided on either side of road to prevent wild animals crossing except at the proposed wild life crossing structures
2	0+327	0+440	0.112	
3	0+619	0+762	0.143	
4	1+941	2+055	0.113	
5	2+100	2+210	0.110	
6	2+333	2+353	0.019	
7	2+738	2+793	0.055	
8	2+980	3+218	0.237	
9	3+462	4+039	0.577	
10	4+326	4+947	0.621	
11	4+947	5+165	0.217	
12	5+450	5+905	0.453	
13	6+293	6+807	0.513	
14	7+321	9+263	1.940	
15	9+307	9+606	0.299	
16	9+972	11+299	1.326	
17	11+532	11+630	0.098	
18	11+782	11+953	0.171	
19	11+953	12+114	0.161	
20	12+173	12+183	0.009	
21	12+659	13+832	1.172	
Total Length			8.419	

3. Installation of Signboards and Speed Breakers

The construction highway results in the increase in the cruising speed of the oncoming vehicles. In order to reduce the speed of vehicles and to create awareness, specialized signboards must be installed in the forest patches and speed breakers also to be installed to decrease the speed of the coming vehicles in specific paths of highway. The location details for these proposed signboards and speed breakers are given as below.

Sl No	Village	Locality (Sy. No.)	GPS Reading	Proposed Structure
1	Ganganakoppa	21	13.908° N 74.955° E	Signboards/ Speed breaker
2	Sutta	10	13.907° N 75.042° E	Signboards/ Speed breaker
3	Sutta	75	13.907° N 75.054° E	Signboards/ Speedbreaker
4	Manasette	38	13.906° N 75.039° E	Signboards/ Speed breaker
5	L.Guddekoppa	27	13.906° N 75.016° E	Signboards/ Speed breaker
6	L.Guddekoppa	46	13.906° N 75.025° E	Signboards/ Speed breaker
7	L.Guddekoppa	45	13.907° N 75.033° E	Signboards/ Speed breaker
8	Hebburli	44	13.907° N 74.975° E	Signboards/ Speed breaker
9	Hebburli	51	13.901° N 74.988° E	Signboards/ Speed breaker
10	Hebburli	221	13.901° N 74.992° E	Signboards/ Speed breaker
11	Hosuru	43	13.909° N 74.971° E	Signboards/ Speed breaker
12	Adgodi	74	13.909° N 74.965° E	Signboards/ Speed breaker
13	Adgodi	79	13.908° N 74.955° E	Signboards/ Speed breaker

4. Providing one Mahindra-Bolero Vehicle for rescue of Wild Animals in Sagar Division:

To take-up rescue and rehabilitation of wild animals during conflict situation one Mahindra-Bolero vehicle will be provided for division from user agency.



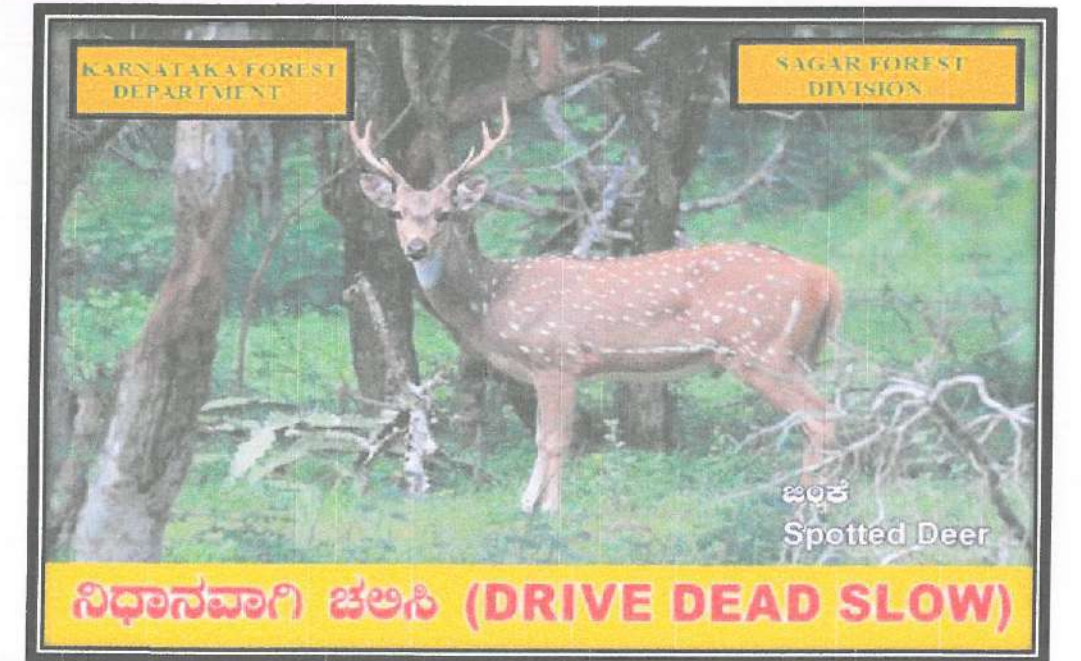
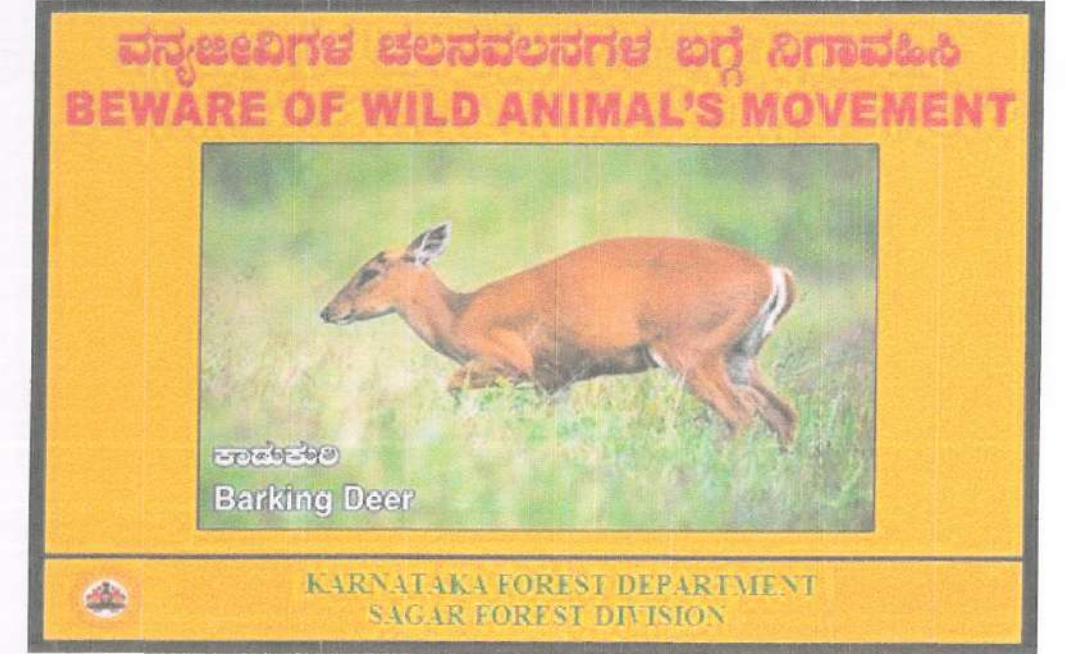
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RANGE FOREST OFFICER
HOSANAGAR RANGE


Deputy Conservator of Forests
Sagar Division, SAGAR

1c.B. 
ASST. CONSERVATOR OF FORESTS
Hosnagara SUB. DN. Hosnagara.

Proposed Sign Boards as follows:

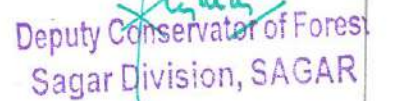


Informatory Sign Boards



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RANGE FOREST OFFICER
HOSANAGAR RANGE


Deputy Conservator of Forests
Sagar Division, SAGAR

10. B. J. J.
ASST. CONSERVATOR OF FORESTS
SUB. DN.



Cautionary Sign Boards



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RANGE FOREST OFFICER
HOSANAGAR RANGE

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ASST. CONSERVATOR OF FORESTS
Hosanagara SUB. DN. Hosanagara.


Deputy Conservator of Forests
Sagar Division, SAGAR

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 12+660 Km To 13+832 Km



MATCHLINE

MAVINAKOPPA VILLAGE .

ADUGODI VILLAGE .



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LEGEND

Proposed Road - NH 766C	-----	
Animal Under Pass	-----	
Forest Area	-----	
Chain Link Fencing	-----	
Sign Boards	-----	

NAME OF THE WORK

Construction of 2 Lane with Paved shoulder from Km 56.00 to 90.70 Km (existing chainage) of NH-766C (complete Realignment of 13.832Km) with 2 Major Bridges across Sharavathi Backwater on EPC mode under Annual Plan 2022-23 in the State of Karnataka

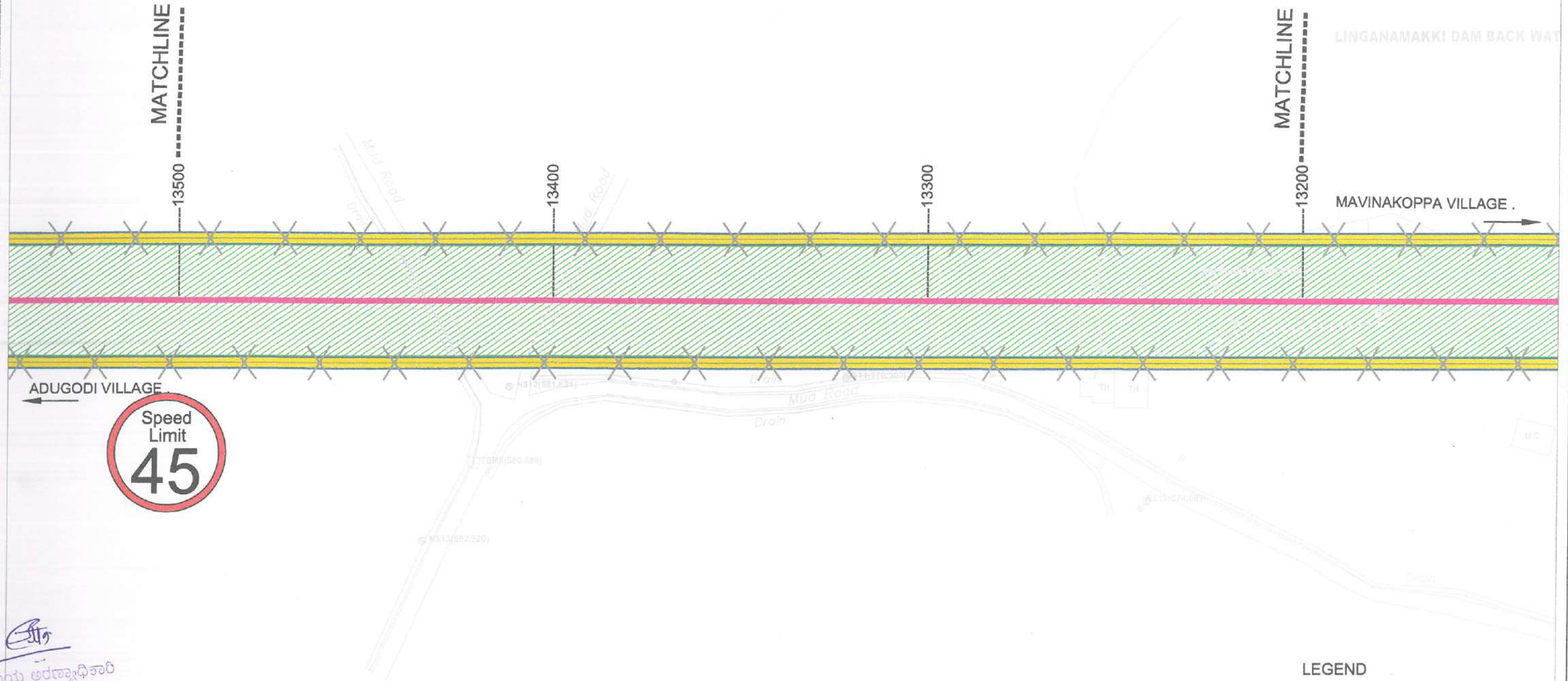
ADUGODI TO MAVINAKOPPA

10. B. ...
ASST. CONSERVATOR OF FORESTS
Hosanagara SUB. DN. Hosanagara

Deputy Conservator of Forests
Sagar Division, SAGAR

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 12+660 Km To 13+832 Km



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ASST. CONSERVATOR OF FORESTS
Hosanagara SUB. DN. Hosanagara,

Deputy Conservator of Forest
Sagar Division, SAGAR

NAME OF THE WORK
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with 2 Major Bridges across Sharavathi Backwater on EPC mode
under Annual Plan 2022-23 in the State of Karnataka
ADUGODI TO MAVINAKOPPA

LEGEND

Proposed Road - NH 766C	-----	
Animal Under Pass	-----	
Forest Area	-----	
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WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

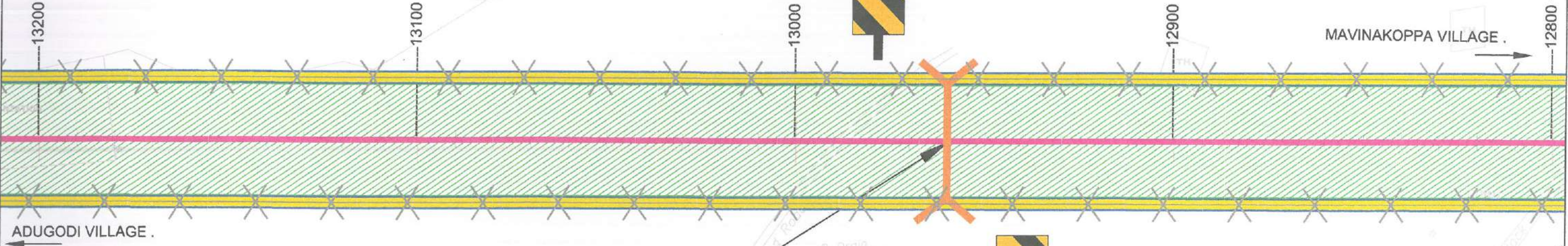
CHAINAGE : From 12+660 Km To 13+832 Km



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LINGANAMAKKI DAM BACK WATER



Design.Ch.(Km)	12+960
Prop.type of Str:-	Animal Under Pass
Prop.span arrangement:-	1x1.2m

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LEGEND

Proposed Road - NH 766C	-----	
Animal Under Pass	-----	
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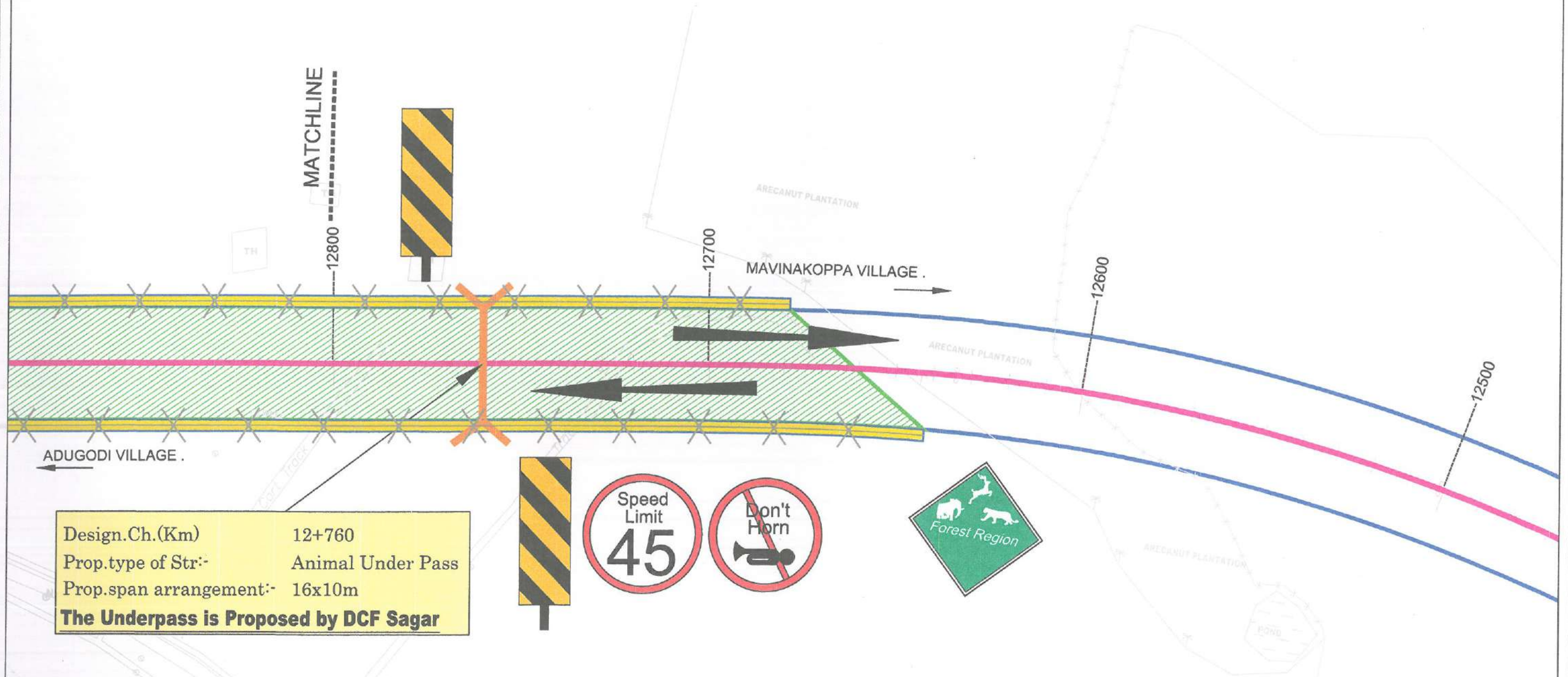
ADUGODI TO MAVINAKOPPA

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ASST. CONSERVATOR OF FORESTS
Hosangam SUB. DN. Hosangam
Deputy Conservator of Forests
Sagar Division, SAGAR

SHEET NO : 1c of 16

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 12+660 Km To 13+832 Km



Design.Ch.(Km) 12+760
 Prop.type of Str:- Animal Under Pass
 Prop.span arrangement:- 16x10m
The Underpass is Proposed by DCF Sagar

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LEGEND

Proposed Road - NH 766C	-----	
Animal Under Pass	-----	
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ADUGODI TO MAVINAKOPPA

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 Hosanagara SUB. DN Hosanagara

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 Sagar Division, SAGAR

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 11+953 Km To 12+054 Km



ADUGODI VILLAGE.

MAVINAKOPPA VILLAGE.



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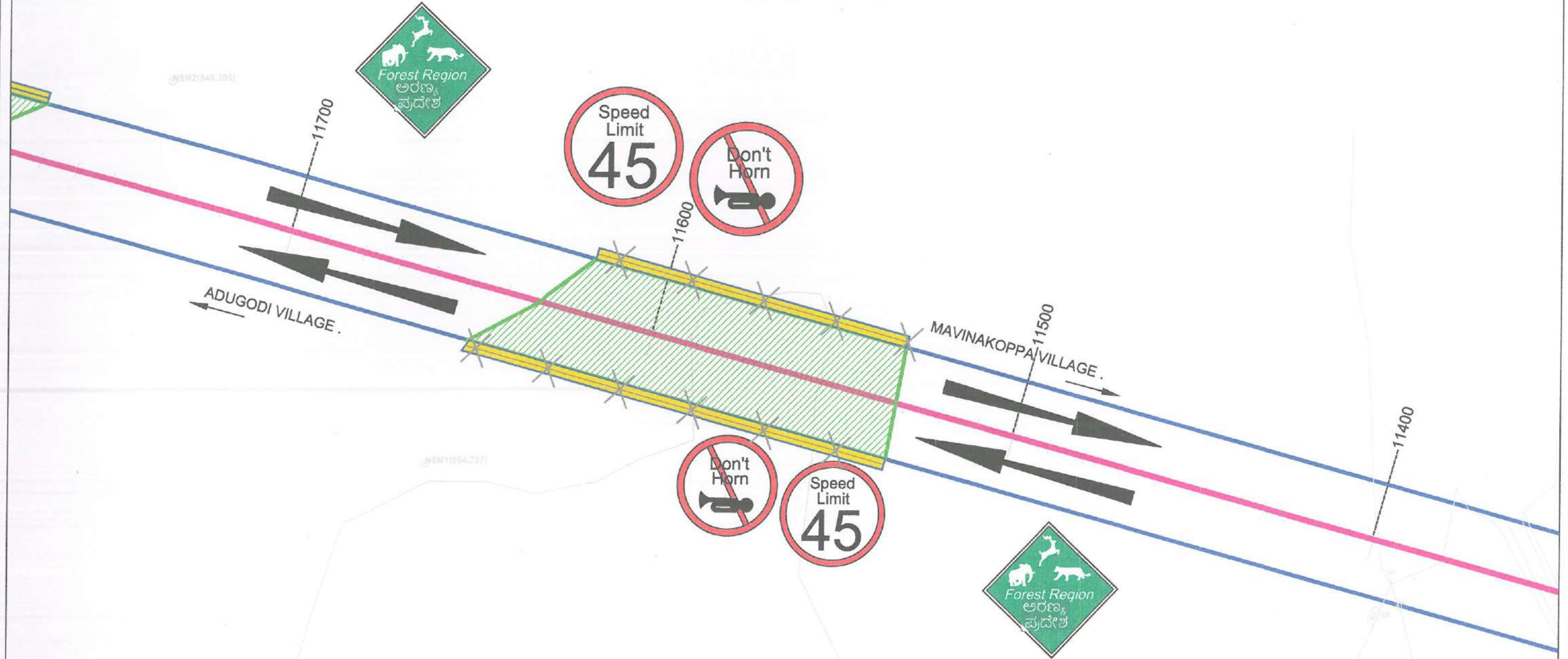
ADUGODI TO MAVINAKOPPA

Proposed Road - NH 766C	-----	---
Animal Under Pass	-----	---
Forest Area	-----	---
Chain Link Fencing	-----	---
Sign Boards	-----	---

SHEET NO : 2 of 16

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 11+532 Km To 11+628 Km



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LEGEND

NAME OF THE WORK
Construction of 2 Lane with Paved shoulder from Km 56.00 to 90.70 Km
(existing chainage) of NH-766C (complete Realignment of 13.832Km)
with 2 Major Bridges across Sharavathi Backwater on EPC mode
under Annual Plan 2022-23 in the State of Karnataka
ADUGODI TO MAVINAKOPPA

Proposed Road - NH 766C	-----	-----
Animal Under Pass	-----	-----
Forest Area	-----	-----
Chain Link Fencing	-----	-----
Sign Boards	-----	-----

LC.B.
ASST. CONSERVATOR OF FORESTS
Hosangana SUB. DIV. Hosangana
Deputy Conservator of Forest
Sagar Division, SAGAR

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 9+965 Km To 11+286 Km



Design.Ch.(Km) 11+170
Prop.type of Str:- Animal Under Pass
Prop.span arrangement:- 1x2.0m



MATCHLINE

MAVINAKOPPA VILLAGE

ADUGODI VILLAGE

Design.Ch.(Km) 11+220
Prop.type of Str:- Animal Under Pass
Prop.span arrangement:- 16x10m

The Underpass is Proposed by DCF Sagar



LEGEND

Proposed Road - NH 766C	-----	
Animal Under Pass	-----	
Forest Area	-----	
Chain Link Fencing	-----	
Sign Boards	-----	

NAME OF THE WORK

Construction of 2 Lane with Paved shoulder from Km 56.00 to 90.70 Km (existing chainage) of NH-766C (complete Realignment of 13.832Km) with 2 Major Bridges across Sharavathi Backwater on EPC mode under Annual Plan 2022-23 in the State of Karnataka

ADUGODI TO MAVINAKOPPA

Deputy Conservator of Forest
Sagar Division, SAGAR

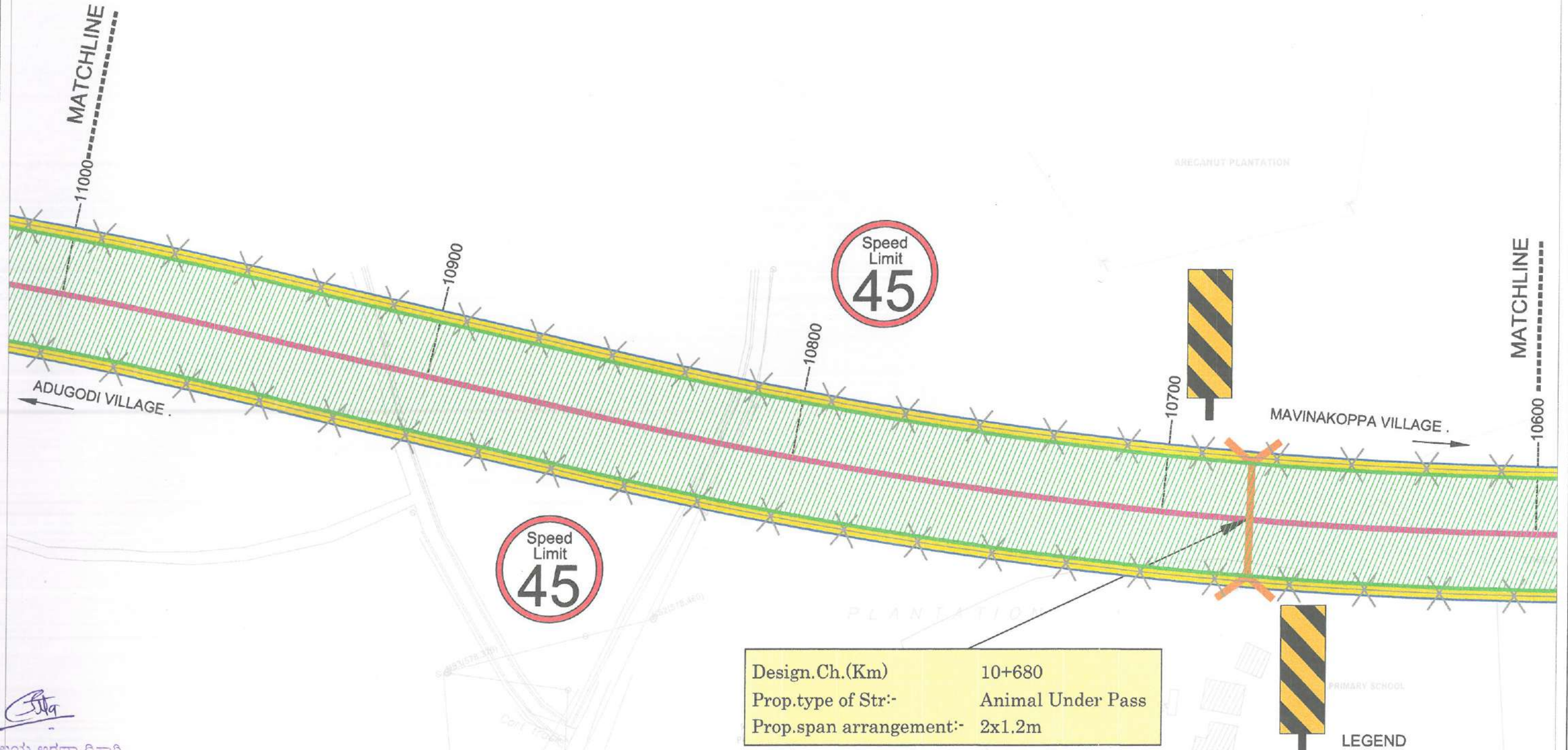
SHEET NO : 4a of 16

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ASST. CONSERVATOR OF FORESTS
Hosangarh SUB. DN. Hosangarh

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 9+965 Km To 11+286 Km



Design.Ch.(Km)	10+680
Prop.type of Str:-	Animal Under Pass
Prop.span arrangement:-	2x1.2m

NAME OF THE WORK
Construction of 2 Lane with Paved shoulder from Km 56.00 to 90.70 Km (existing chainage) of NH-766C (complete Realignment of 13.832Km) with 2 Major Bridges across Sharavathi Backwater on EPC mode under Annual Plan 2022-23 in the State of Karnataka
ADUGODI TO MAVINAKOPPA

Proposed Road - NH 766C	-----	-----
Animal Under Pass	-----	-----
Forest Area	-----	-----
Chain Link Fencing	-----	-----
Sign Boards	-----	-----

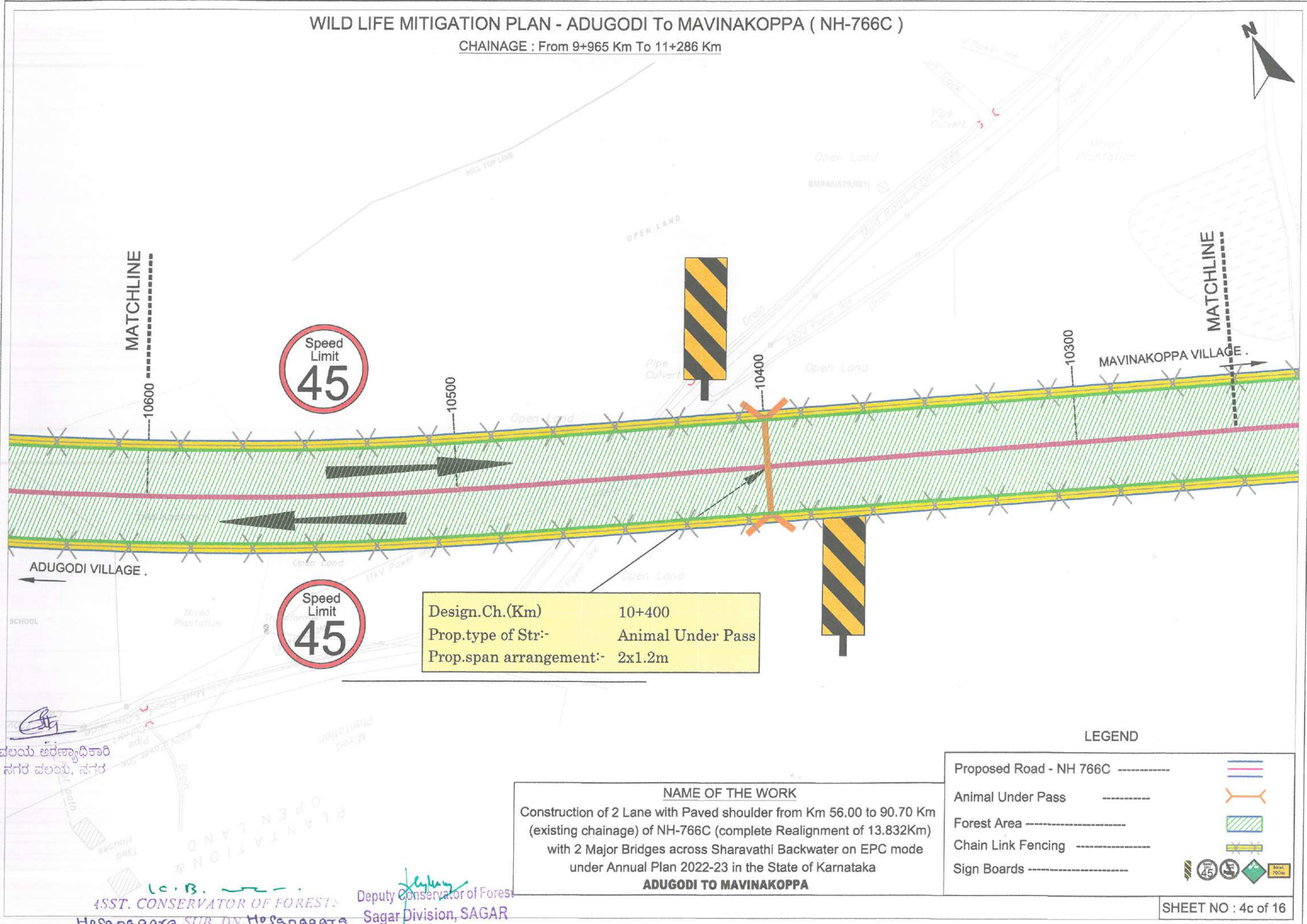
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10.13.2022
ASST. CONSERVATOR OF FORESTS
Hosangara SUB. DN. Hosangara

Deputy Conservator of Forests
Sagar Division, SAGAR

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 9+965 Km To 11+286 Km



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LEGEND

- Proposed Road - NH 766C -----
- Animal Under Pass -----
- Forest Area -----
- Chain Link Fencing -----
- Sign Boards -----

NAME OF THE WORK

Construction of 2 Lane with Paved shoulder from Km 56.00 to 90.70 Km (existing chainage) of NH-766C (complete Realignment of 13.832Km) with 2 Major Bridges across Sharavathi Backwater on EPC mode under Annual Plan 2022-23 in the State of Karnataka

ADUGODI TO MAVINAKOPPA

SHEET NO : 4c of 16

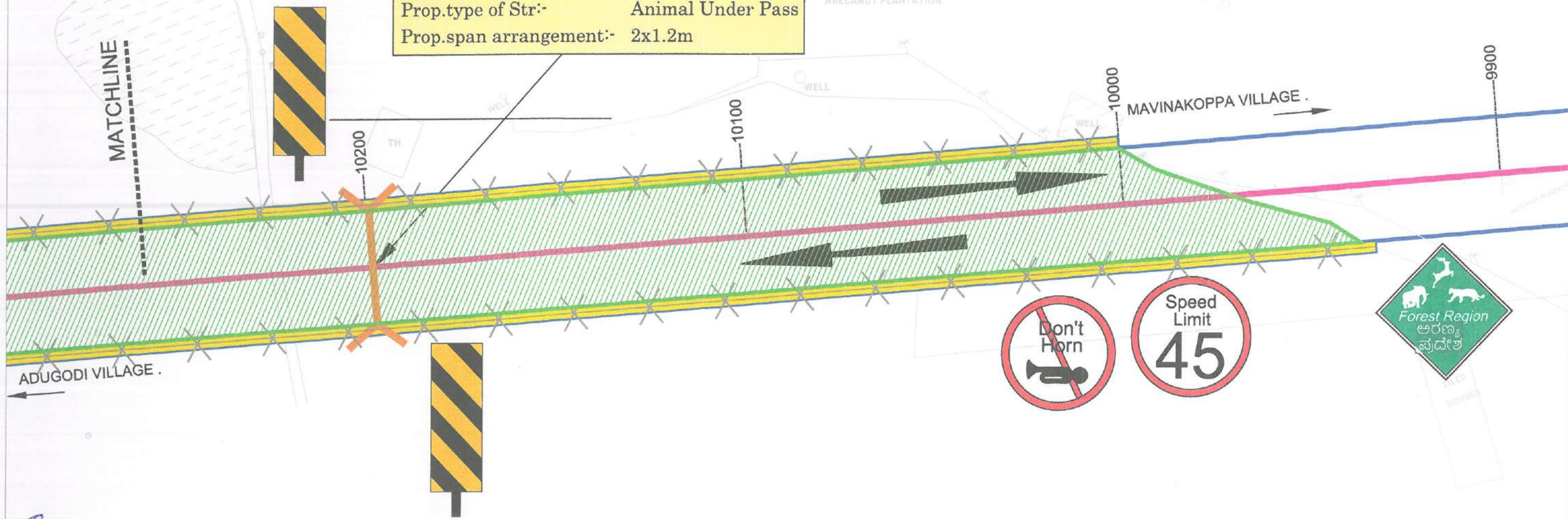
ASST. CONSERVATOR OF FORESTS
Hosangara SUB DIV. Hosangara
Deputy Conservator of Forests
Sagar Division, SAGAR

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 9+965 Km To 11+286 Km



Design.Ch.(Km) 10+200
Prop.type of Str:- Animal Under Pass
Prop.span arrangement:- 2x1.2m



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10.10.2022
Deputy Conservator of Forests
Sagar Division, SAGAR

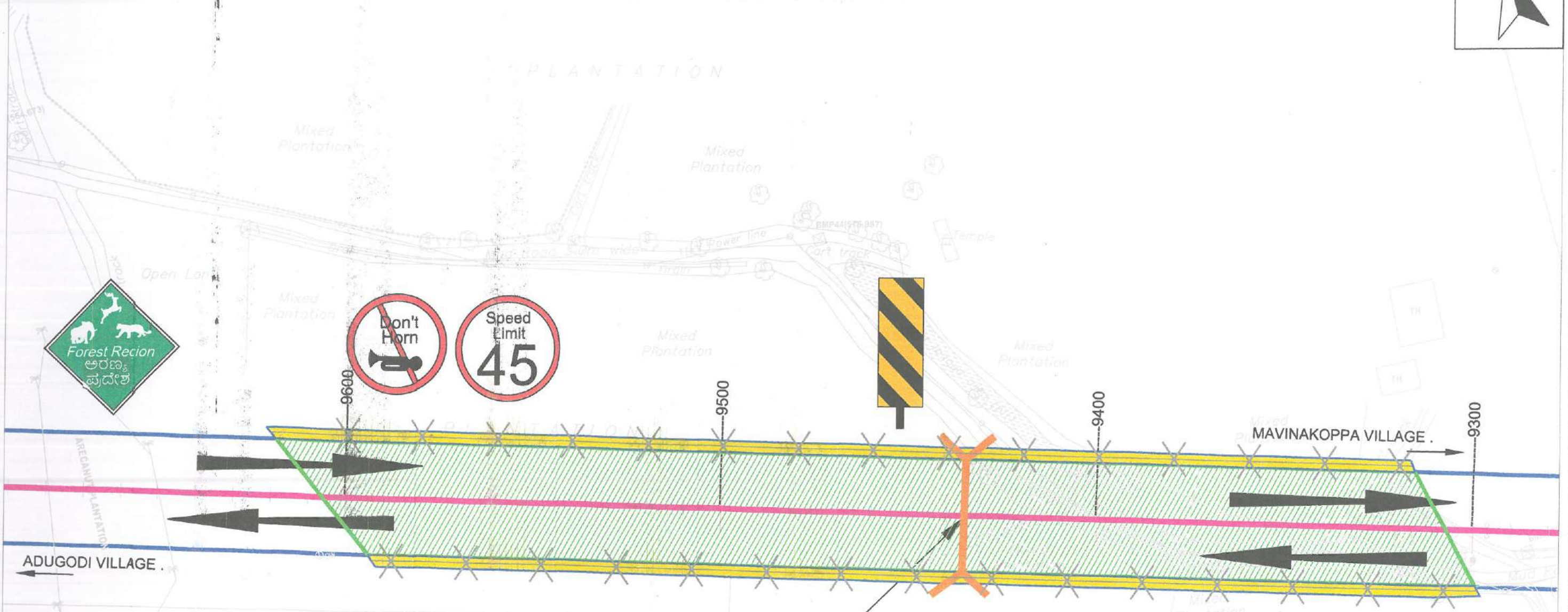
NAME OF THE WORK
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(existing chainage) of NH-766C (complete Realignment of 13.832Km)
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under Annual Plan 2022-23 in the State of Karnataka
ADUGODI TO MAVINAKOPPA

LEGEND

Proposed Road - NH 766C	-----
Animal Under Pass	-----
Forest Area	-----
Chain Link Fencing	-----
Sign Boards	-----

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 9+307 Km To 9+640 Km



Design.Ch.(Km) 9+420
Prop.type of Str:- Animal Under Pass
Prop.span arrangement:- 1x2.0m



LEGEND

Proposed Road - NH 766C	-----	
Animal Under Pass	-----	
Forest Area	-----	
Chain Link Fencing	-----	
Sign Boards	-----	

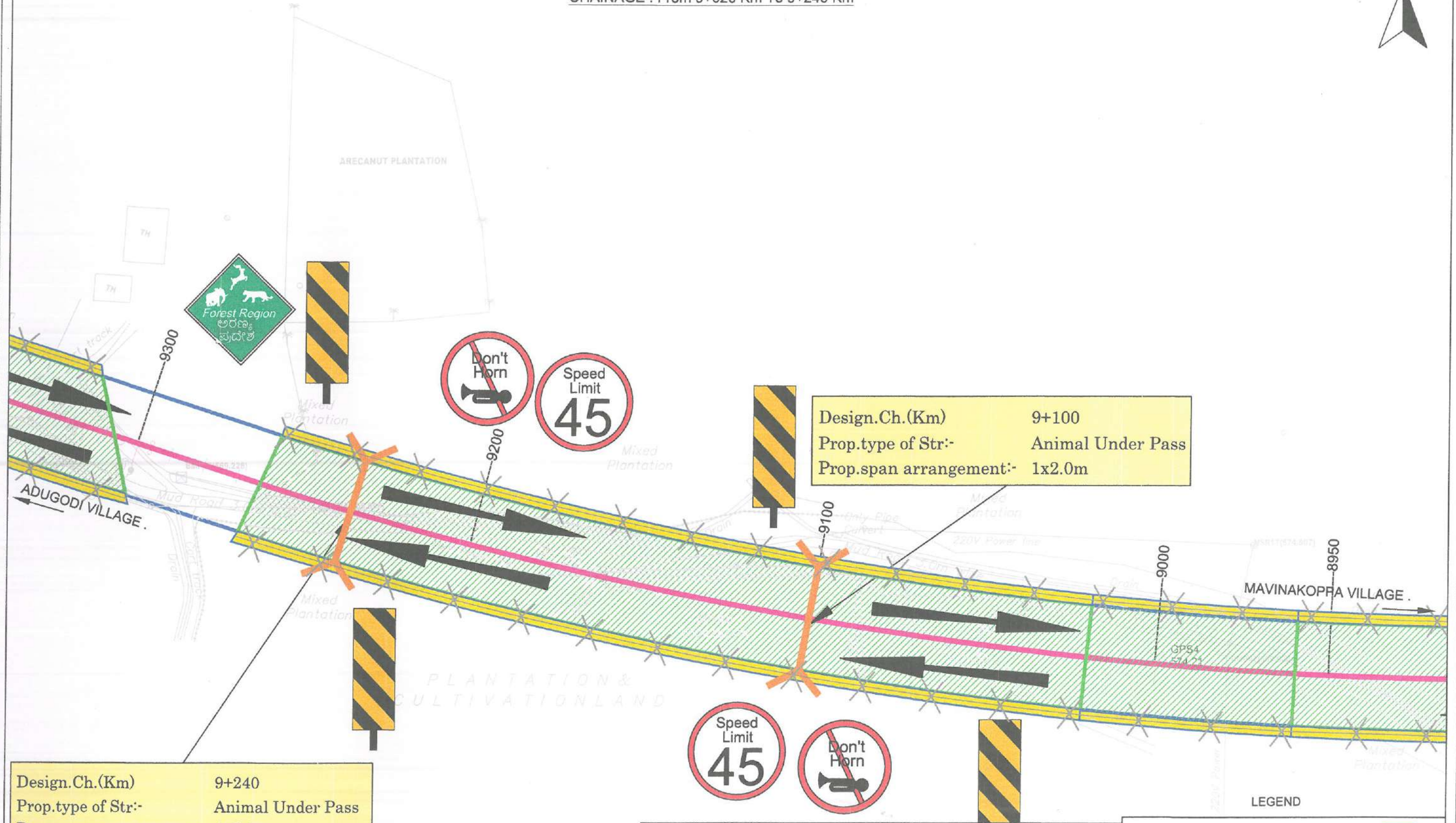
NAME OF THE WORK
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ADUGODI TO MAVINAKOPPA

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10.13.22
ASST. CONSERVATOR OF FOREST - Deputy Conservator of Forest
Hosangara SUB. DN. Hosangara Sagar Division, SAGAR

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 9+020 Km To 9+240 Km



Design.Ch.(Km) 9+240
Prop.type of Str:- Animal Under Pass
Prop.span arrangement:- 1x2.0m

Design.Ch.(Km) 9+100
Prop.type of Str:- Animal Under Pass
Prop.span arrangement:- 1x2.0m

NAME OF THE WORK
Construction of 2 Lane with Paved shoulder from Km 56.00 to 90.70 Km (existing chainage) of NH-766C (complete Realignment of 13.832Km) with 2 Major Bridges across Sharavathi Backwater on EPC mode under Annual Plan 2022-23 in the State of Karnataka
ADUGODI TO MAVINAKOPPA

LEGEND

Proposed Road - NH 766C	-----	
Animal Under Pass	-----	
Forest Area	-----	
Chain Link Fencing	-----	
Sign Boards	-----	

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1C.B.
ASST. CONSERVATOR OF FOREST Deputy Conservator of Forest
Hosangara SUB. DN. Hosangara Sagar Division, SAGAR

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 8+290 Km To 8+960 Km



Design.Ch.(Km) 8+640
Prop.type of Str:- Animal Under Pass
Prop.span arrangement:- 1x2.0m



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LC.B. Deputy Conservator of Forests
Sagar Division, SAGAR

NAME OF THE WORK
Construction of 2 Lane with Paved shoulder from Km 56.00 to 90.70 Km
(existing chainage) of NH-766C (complete Realignment of 13.832Km)
with 2 Major Bridges across Sharavathi Backwater on EPC mode
under Annual Plan 2022-23 in the State of Karnataka
ADUGODI TO MAVINAKOPPA

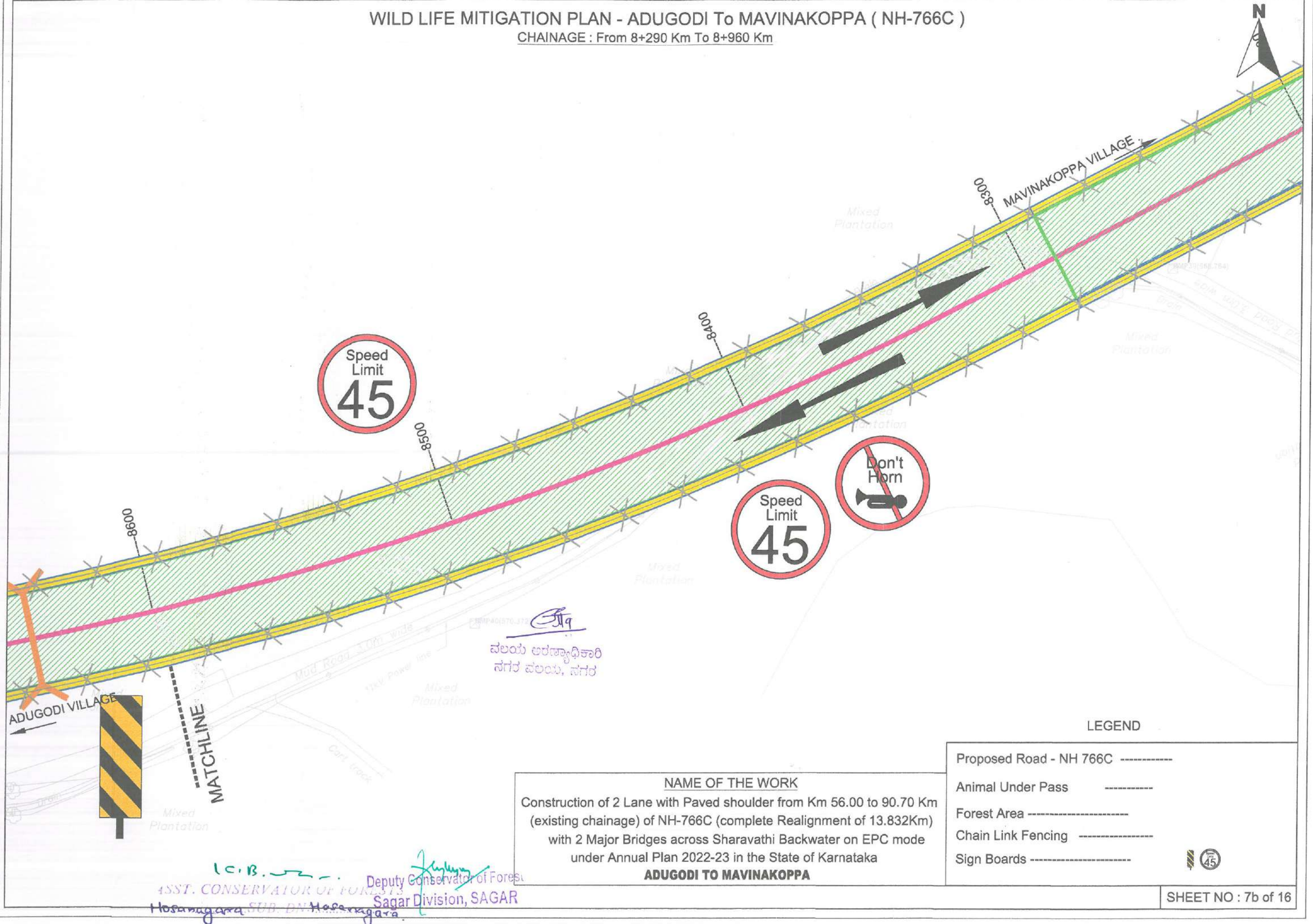
LEGEND

Proposed Road - NH 766C -----
Animal Under Pass -----
Forest Area -----
Chain Link Fencing -----
Sign Boards -----

SHEET NO : 7a of 16

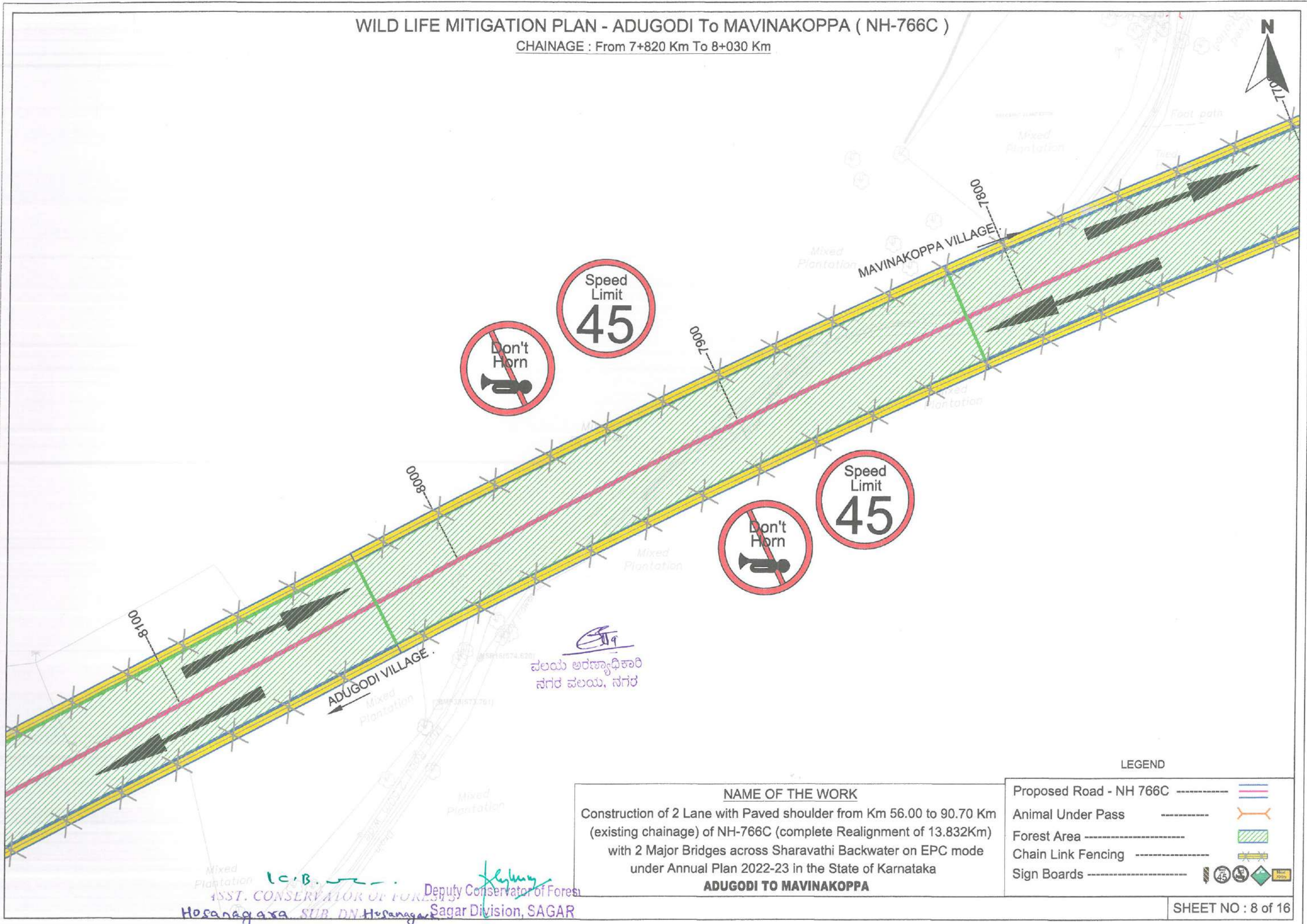
WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 8+290 Km To 8+960 Km



WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 7+820 Km To 8+030 Km



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lc.B. Deputy Conservator of Forests
Hosanagara SUB. DN. Hosanagara Sagar Division, SAGAR

NAME OF THE WORK
Construction of 2 Lane with Paved shoulder from Km 56.00 to 90.70 Km
(existing chainage) of NH-766C (complete Realignment of 13.832Km)
with 2 Major Bridges across Sharavathi Backwater on EPC mode
under Annual Plan 2022-23 in the State of Karnataka
ADUGODI TO MAVINAKOPPA

LEGEND

Proposed Road - NH 766C	-----	==
Animal Under Pass	-----	==
Forest Area	-----	==
Chain Link Fencing	-----	==
Sign Boards	-----	==

CHAINAGE : From 7+325 Km To 7+510 Km



Proposed Road - NH 766C	-----	
Animal Under Pass	-----	
Forest Area	-----	
Chain Link Fencing	-----	
Sign Boards	-----	

Construction of 2 Lane with Paved shoulder from Km 56.00 to 90.70 Km (existing chainage) of NH-766C (complete Realignment of 13.832Km) with 2 Major Bridges across Sharavathi Backwater on EPC mode under Annual Plan 2022-23 in the State of Karnataka

ADUGODI TO MAVINAKOPPA

SHEET NO : 9 of 16

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10.B. Deputy Conservator of Forest
Hosanagara S.D. Division, SAGAR

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 6+690 Km To 6+760 Km



ADUGODI VILLAGE .

MAVINAKOPPA VILLAGE .

LEGEND

NAME OF THE WORK
Construction of 2 Lane with Paved shoulder from Km 56.00 to 90.70 Km
(existing chainage) of NH-766C (complete Realignment of 13.832Km)
with 2 Major Bridges across Sharavathi Backwater on EPC mode
under Annual Plan 2022-23 in the State of Karnataka
ADUGODI TO MAVINAKOPPA

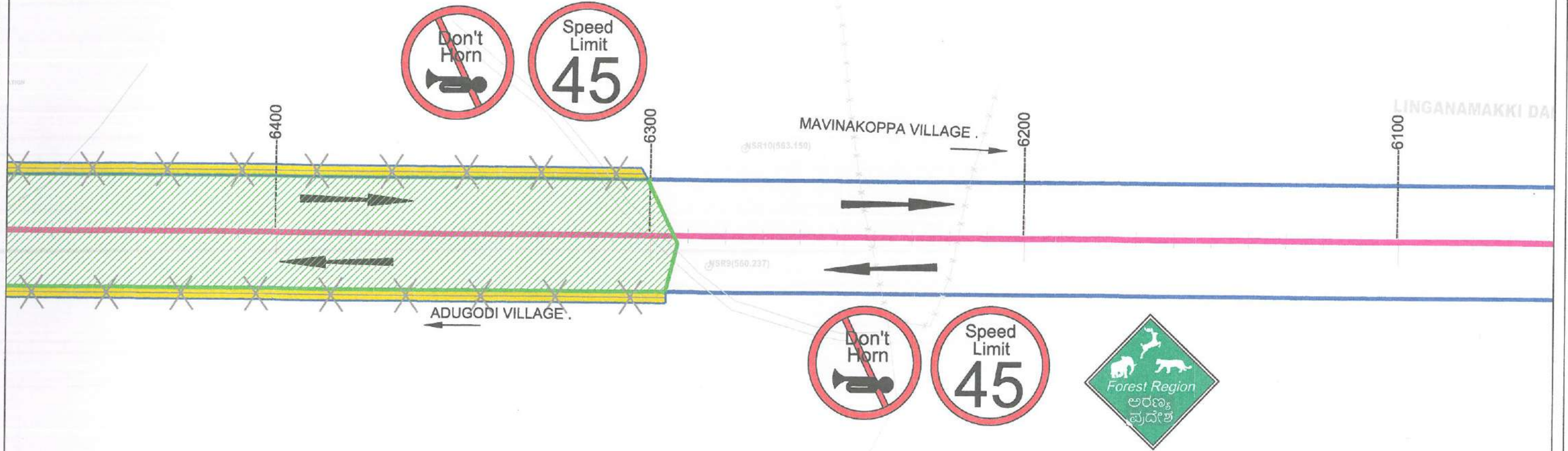
Proposed Road - NH 766C	-----	
Animal Under Pass	-----	
Forest Area	-----	
Chain Link Fencing	-----	
Sign Boards	-----	

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10.13.2022
ASST. CONSERVATOR OF FORESTS
Horanagalli SUB. DN Horanagalli
Deputy Conservator of Forest
Sagar Division, SAGAR

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 6+257 Km To 6+310 Km



LEGEND

NAME OF THE WORK
Construction of 2 Lane with Paved shoulder from Km 56.00 to 90.70 Km (existing chainage) of NH-766C (complete Realignment of 13.832Km) with 2 Major Bridges across Sharavathi Backwater on EPC mode under Annual Plan 2022-23 in the State of Karnataka
ADUGODI TO MAVINAKOPPA

Proposed Road - NH 766C -----
Animal Under Pass -----
Forest Area -----
Chain Link Fencing -----
Sign Boards -----

10.13.2022
ASST. CONSERVATOR OF FOREST
Hosangara SUB. DN
Deputy Conservator of Forest
Sagar Division, SAGAR

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 5+450 Km To 5+904 Km



MATCHLINE

MAVINAKOPPA VILLAGE .

ADUGODI VILLAGE .



LEGEND

Proposed Road - NH 766C	-----	
Animal Under Pass	-----	
Forest Area	-----	
Chain Link Fencing	-----	
Sign Boards	-----	

NAME OF THE WORK

Construction of 2 Lane with Paved shoulder from Km 56.00 to 90.70 Km (existing chainage) of NH-766C (complete Realignment of 13.832Km) with 2 Major Bridges across Sharavathi Backwater on EPC mode under Annual Plan 2022-23 in the State of Karnataka

ADUGODI TO MAVINAKOPPA

SHEET NO : 12a of 16

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10.13.2022
Asst. Conservator of Forests
Hosangangara SUB. DN. Hosangangara
Deputy Conservator of Forest
Sagar Division, SAGAR

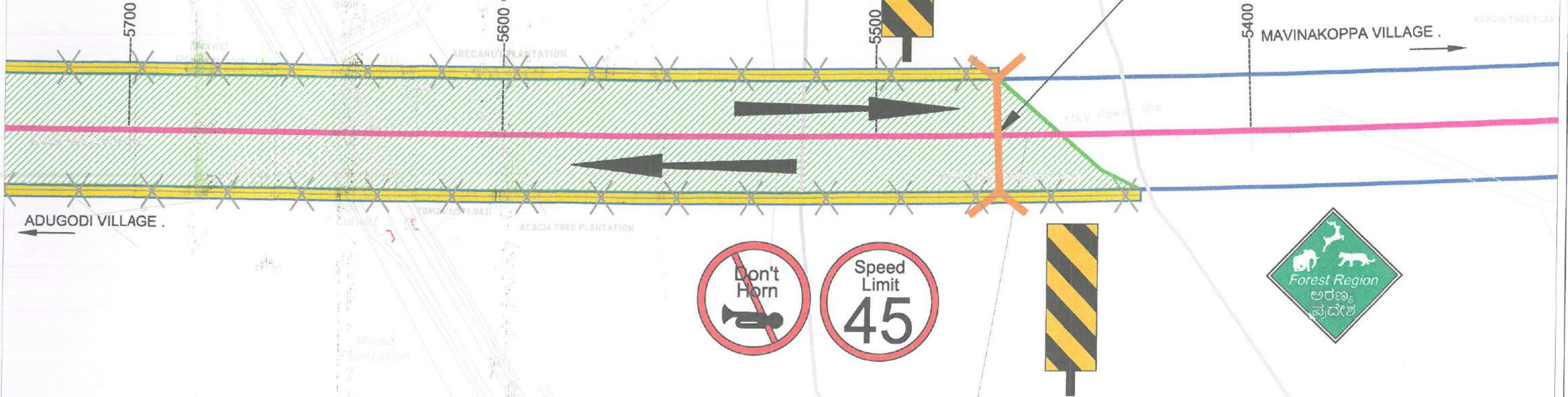
WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 5+450 Km To 5+904 Km



MATCHLINE

Design.Ch.(Km)	5+460
Prop.type of Str:-	Animal Under Pass
Prop.span arrangement:-	1x3.0m



LEGEND

Proposed Road - NH 766C	-----	=====
Animal Under Pass	-----	=====
Forest Area	-----	=====
Chain Link Fencing	-----	=====
Sign Boards	-----	=====

NAME OF THE WORK

Construction of 2 Lane with Paved shoulder from Km 56.00 to 90.70 Km (existing chainage) of NH-766C (complete Realignment of 13.832Km) with 2 Major Bridges across Sharavathi Backwater on EPC mode under Annual Plan 2022-23 in the State of Karnataka

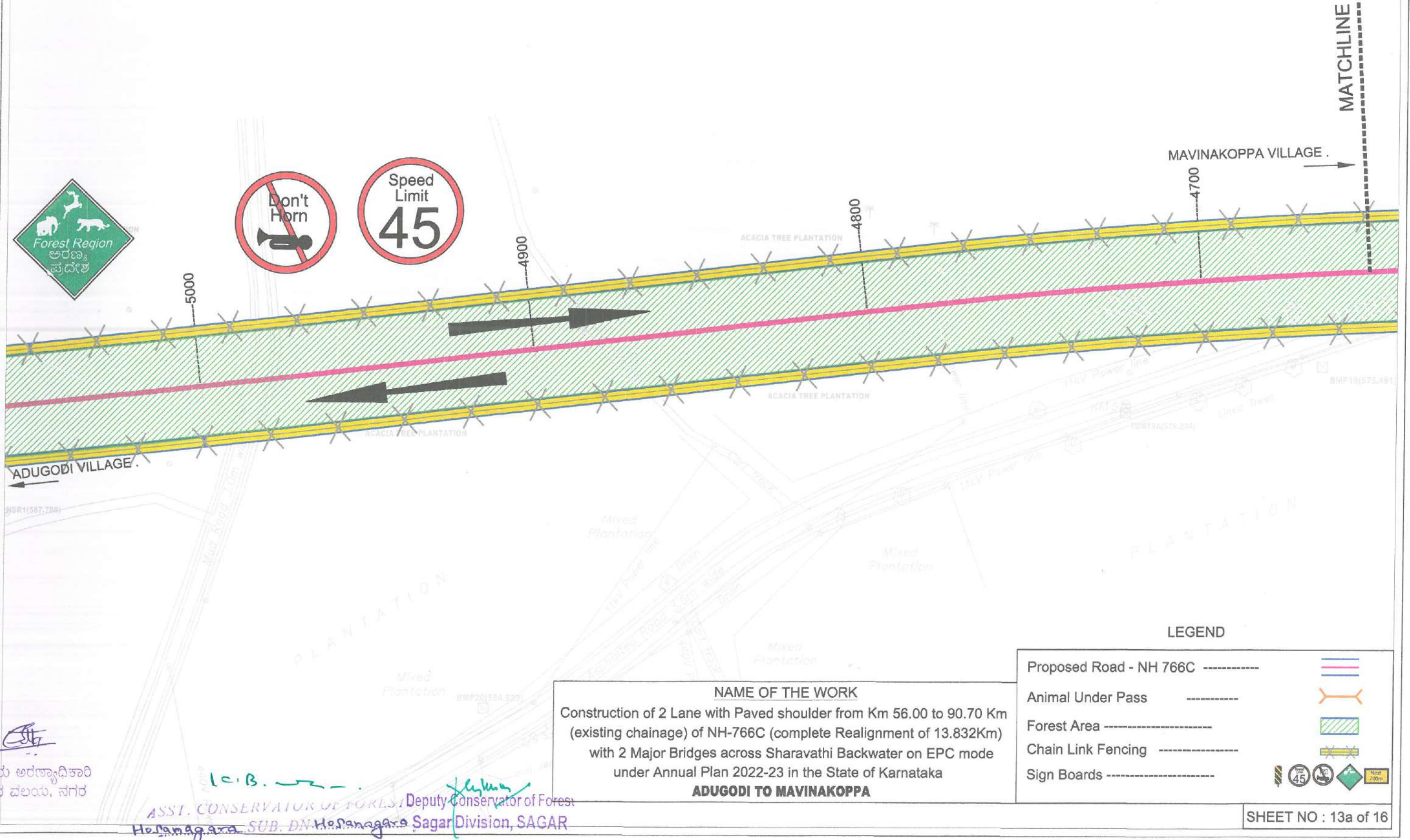
ADUGODI TO MAVINAKOPPA

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ASST. CONSERVATOR OF FORESTS Deputy Conservator of Forests
Hosangana SUB. DN Hosangana Sagar Division, SAGAR

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 4+330 Km To 5+024 Km



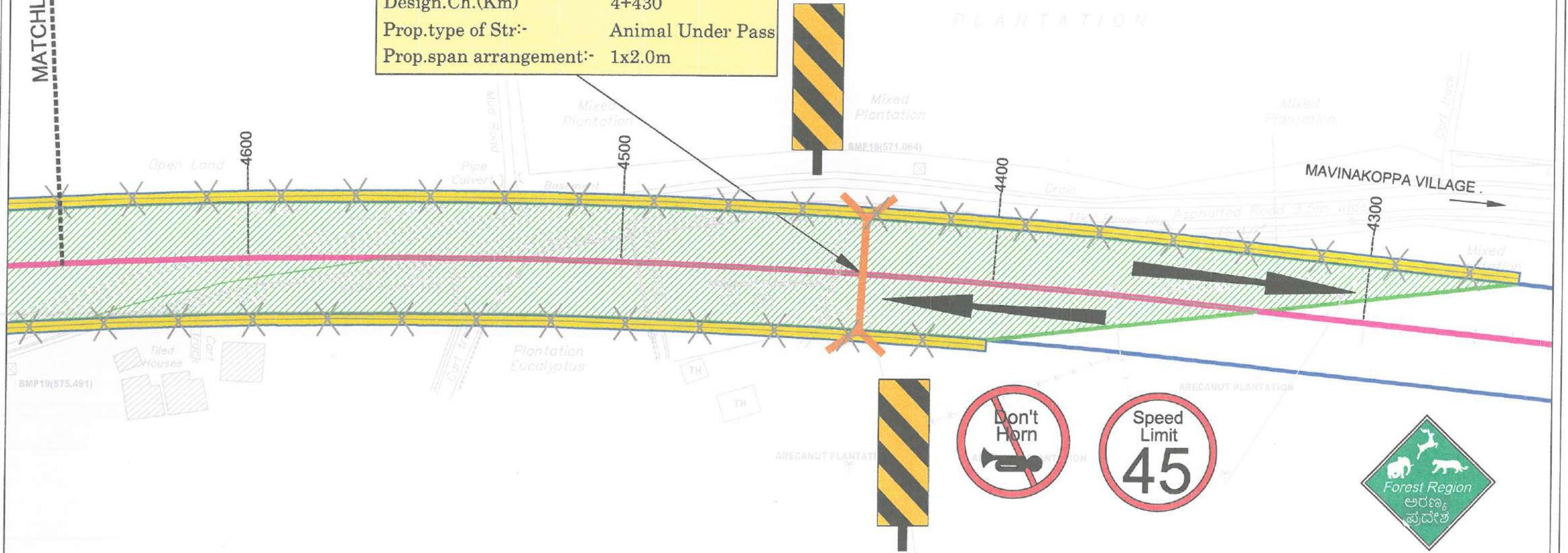
WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 4+330 Km To 5+024 Km



MATCHLINE

Design.Ch.(Km)	4+430
Prop.type of Str:-	Animal Under Pass
Prop.span arrangement:-	1x2.0m



LEGEND

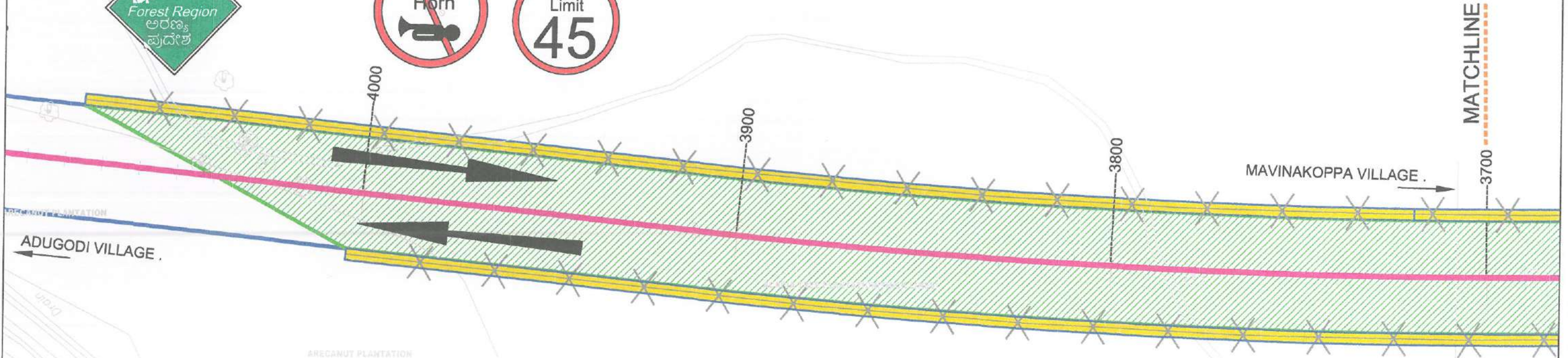
Proposed Road - NH 766C	-----	
Animal Under Pass	-----	
Forest Area	-----	
Chain Link Fencing	-----	
Sign Boards	-----	

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LCIB.
ASST. CONSERVATOR OF FORESTS Deputy Conservator of Forests
Hosangara SUB. DN. Hosangara Sagar Division, SAGAR

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 3+494 Km To 4+040 Km



NAME OF THE WORK
Construction of 2 Lane with Paved shoulder from Km 56.00 to 90.70 Km (existing chainage) of NH-766C (complete Realignment of 13.832Km) with 2 Major Bridges across Sharavathi Backwater on EPC mode under Annual Plan 2022-23 in the State of Karnataka
ADUGODI TO MAVINAKOPPA

Proposed Road - NH 766C	
Animal Under Pass	
Forest Area	
Chain Link Fencing	
Sign Boards	

SHEET NO : 14a of 16

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10.11.2022
Asst. Conservator of Forests
Hosangara SUB. DN. Hosangara
Deputy Conservator of Forests
Sagar Division, SAGAR

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 3+494 Km To 4+040 Km



LEGEND

NAME OF THE WORK
Construction of 2 Lane with Paved shoulder from Km 56.00 to 90.70 Km (existing chainage) of NH-766C (complete Realignment of 13.832Km) with 2 Major Bridges across Sharavathi Backwater on EPC mode under Annual Plan 2022-23 in the State of Karnataka
ADUGODI TO MAVINAKOPPA

Proposed Road - NH 766C	-----	
Animal Under Pass	-----	
Forest Area	-----	
Chain Link Fencing	-----	
Sign Boards	-----	

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LC.B.
ASST. CONSERVATOR OF FOREST Deputy Conservator of Forest
Hosangara Sagar Division, SAGAR

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 2+738 Km To 2+793 Km




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Hosangara SUB. DN. Hosangara Sagar Division, SAGAR

LEGEND

Proposed Road - NH 766C	-----	
Animal Under Pass	-----	
Forest Area	-----	
Chain Link Fencing	-----	
Sign Boards	-----	

WILD LIFE MITIGATION PLAN - ADUGODI To MAVINAKOPPA (NH-766C)

CHAINAGE : From 0+327 Km To 0+440 Km

