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HIGHWAYS DEPARTMENT
CHENNAI PERIPHERAL RING ROAD PROJECT

From
Sathyaseelan.M.,
Divisional Engineer,
Construction and Maintenance,
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Kanchipuram District – 603 001

To
The District Forest Officer,
Chengalpattu Division,
Kanchipuram – 631 501.

Lr. No. TNRIDC/2019/44 ^{112/} Date : 16.12.2019
(Vikari – Maasi – ThiruvalluvarAandu 2050)

Sir,

Sub: Highways Department - Chennai Peripheral Ring Road Project –
Kanchipuram District – Chengalpattu Division – Proposal for diversion
of 10.23 ha. of forest land in Mannur RF, Sengundram RF and
Thirutheri RF – Online proposal submitted – Additional details called
for – Reg.

- Ref: 1. Online proposal No. FP/TN/Road/24465/17 uploaded by The
Divisional Engineer (Highways), Construction and Maintenance
Division, Chengalpattu.
2. The District Forest Officer, Chengalpattu Division, Kanchipuram
C.No. D/184/19 Dated 06.05.2019.

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I wish to inform that the replies to the reference 2nd cited above in respect of
on line proposal in PARIVESH in the reference 1st cited as follows:

A Detailed discussion was held with the District Forest Officer, Kanchipuram
(DFO) in this regard by the Superintendent Engineer and Divisional Engineer of
TNRIDC, Chennai, and the Assistant Conservator of Forests, TNRSP II, Chennai,
and as per the instruction of the DFO,


(a) As wildlife are dwelling in the Sengundram RF area and Thirutheri RF
area, sufficient number of wildlife underpasses provided along the project
road to prevent accidents due to wild animals crossing the road.

(b) Animal fencing all along the forest stretch to prevent accidental entry of
wild animals in-spite of providing animal underpasses.

It is informed that, necessary provisions will be made in the estimate for the following items as suggested by the DFO:

- (a) Animal underpasses at an interval of 500m along the entire stretch passing through the RF area will be provided,
- (b) Animal proof fencing all along the entire stretch passing through the RF area (1.76km length on both sides).
- (c) Informative signage and speed limit signage in all vital stretches along the forest stretch to prevent wildlife conflicts/animal killing due to speeding vehicles.

Enclosure : Note on animal crossings
in Reserved Forest
Area.


Divisional Engineer (Highways),
Construction and Maintenance,
Chengalpattu Division.

CHENNAI PERIPHERAL ROAD

Note on measures for Animal Crossings at Reserve Forest Area

Government of Tamil Nadu desired to form Chennai Peripheral Road (CPR), to improve the connectivity around the city, provide access to Ennore&Kattupalli Ports, reduce travel time and distance for the bypass-able traffic of Chennai city. Chennai Peripheral Road is one of the major projects included in VISION 2023 of Government of Tamil Nadu. The Government of Tamil Nadu through Construction & Maintenance wing of Highways Department is preparing of DPR for forming Peripheral Road.

The Peripheral road will starts at Ennore Port and ends at Poonjeri Junction in Mahabalipuram. The proposed road will connect four National Highways – NH-5, NH-205, NH-4 and NH-45, and eight State Highways – SH-51, SH-50A, SH-50, SH-48, SH-57, SH-49B, SH-49A (OMR) and SH 49 (ECR). Length of proposed peripheral road will be around 133.381 km which is split into 5 sections.

Section 1: Ennore Port to Thatchur on NH-5 with Link road to CORR (25.31 km)

Section 2: Thatchur on NH-5 to Start of Thiruvallur Bypass (26.20 km)

Section 3: Start of Thiruvallur Bypass to Sriperumbudur on NH-4 (30.60 km)

Section 4: Sriperumbudur on NH-4 to Singaperumalkoil on NH-45 (23.80 km)

Section 5: Singaperumalkoil on NH-45 to Mahabalipuram(27.471 km)

The alignment for Chennai Peripheral Road was approved by the Steering Committee and finalized by the Principal Secretary, Highways and Minor Ports, Government of Tamil Nadu. The approved alignment plan is given in Figure 1. The alignment of CPR is passing through the Forest area on Section 3 and Section 5.

The project road requires diversion of forest land (10.23 Ha) in three reserve forests.

Mannur Reserve Forest	:	0.28 Ha.
Thirutteri Reserve Forest	:	1.86 Ha.
Sengundram Reserve Forest	:	8.09 Ha.

Project Road on Mannur Reserve Forest

The SH-57 is a 2-lane road running adjacent to Mannur RF (along western boundary) from existing km 31/840 to km 32/040. Peripheral road will be formed by widening of this stretch of SH-57 to 6-lane carriageway plus service roads, with 60m right of way.

For widening of existing road and construction of underpass, about 0.28 Ha of forest land on eastern side of SH-57 needs to be diverted in this location.

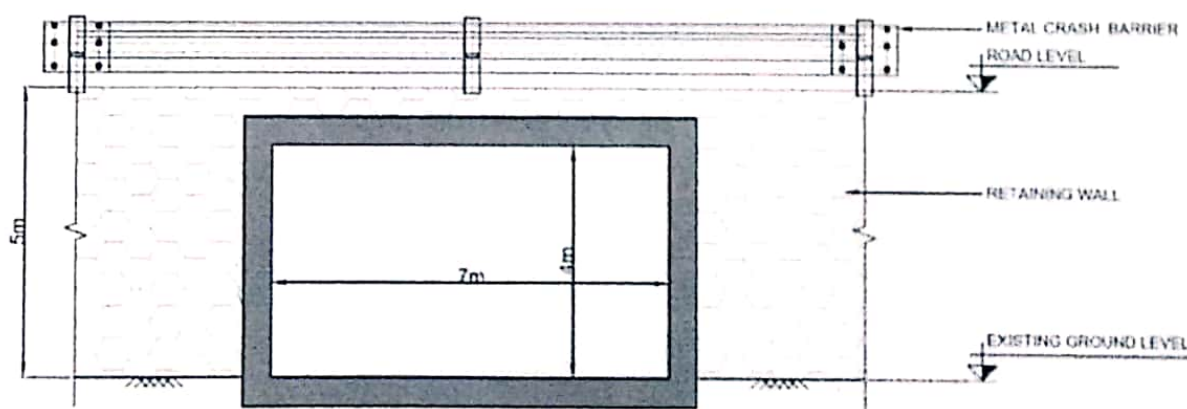
Project Road on Thirutteri and Sengundram Reserve Forest

Peripheral Road will be formed as new alignment connecting Singaperumalkoil and Mahabalipuram with 6-lane carriageway and service roads on both sides, with 60m right of way.

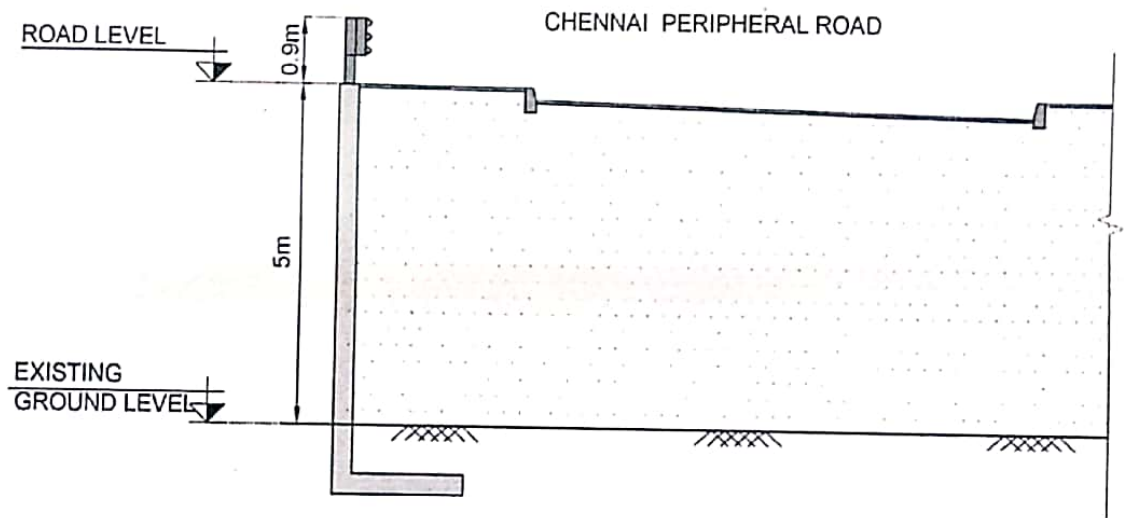
Measures for Safe crossing of Animals:

As the project road is passing through Sengundram RF and Thirutteri RF for about 1.76 km length, following measures are proposed for safety of animals in the RFs.

- Wherever the highway cut through the forests, the solution that's been remarkably effective around the world in decreasing collisions between vehicles and animals crossing the road is 'wildlife underpasses and overpasses'. To ensure the uninterrupted movement/migration of animals and avoid the vehicle-animal collisions, the wildlife underpasses with clear vent of 7m x 4m are proposed every 500m interval within RF, which is suggested in IRC:SP:87-2019 for crossing of animals except elephants & camels. Totally 4 wildlife underpasses are proposed within this 1.76km forest stretch. The following sketch shows that cross section of wildlife underpass.



- The peripheral road will be formed with min. 3m high embankment with RCC retaining walls on both sides throughout the project length. In this forest stretch, the height of embankment is increased to 5m to accommodate the wildlife underpasses. Due to the high embankment, the vertical face of retaining wall only visible from the RF and this elevation difference will minimize the disturbance to animals in the RF. In addition, metal beam crash barrier at top of retaining wall and animal proof fencing at at-grade portion is proposed on both sides of road in the Reserve Forest. This fencing and crash barrier combined with high embankment will protect the forest from unauthorized entry. Informative signage and speed limit signage are proposed in all vital stretches along the forest area to prevent wildlife conflicts/animal killing due to speeding vehicles.



- Animal fencing is proposed on both sides of the project road for entire forest stretch of 1.76km length.
- The cost for construction of wildlife underpasses, signages, retaining wall with crash barrier and animal fencing are included in the project cost.

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HIGHWAYS DEPARTMENT

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O/o The Divisional Engineer,
Construction and Maintenance,
Chengalpattu – 603 001

Date : 16.12.2019

Name of the road : Peripheral road connecting Mahabalipuram to Ennore port
(Via) Thiruporur, Singaperumalkoil, Sriperumpudur,
Tiruvallur, Chengalpattu, Tamaraipakkam, Periyapalayam,
Puduvoyal and Kattupalli for a length of 133.65 km.

UNDERTAKING

All the measures proposed for safeguarding the wildlife such as
construction of animal underpasses and animal proof fencing at grade along the
entire forest stretch will be taken up during project execution.


Divisional Engineer, 16/12/2019
Construction and Maintenance,
Chengalpattu.