

area, distribution of Brochure's, pamphlets regarding the wildlife area & conservation measures to be taken.

- The publicity material / Posters may be displayed at all Government buildings, schools, colleges in surrounding villages. The awareness programmes with the targeted populations in the surrounding villages should include the conservation wildlife & Avi fauna.
- Hoardings and posters to be displayed at important junctions to create awareness on conservation of Wildlife and penal provisions of Wildlife (Protection) Act 1972.

Suitable amount is provided in the financial provision for awareness activities.

5.3.5 Fire protection and maintenance of view lines :

Fire protection is also an important operation in the management of the corridor of Nagarjunasagar Srisailem Tiger Reserve. In addition to the fire protection, it is advised to maintain the view lines with a 5 Mt width on both the sides of road. The clearance will facilitate the traveller's and as well as wild animals to wait and crossover the road. Suitable amount is provided in the financial provision.

5.3.6 Veterinary services & Stray dog population control :

Veterinary services by regular vaccination of livestock in adjoining villages. Advised to carry out periodic disease and parasite surveillance and monitor health conditions of the wild animals. Stray dogs are huge menace in the forest for prey animals. It is suggested to control stray dog population through sterilization of female dogs in the surrounding areas by involving the local bodies.

Chapter 6

Conservation Plan & Financial Projections

The Wildlife Mitigation and Conservation plan for the diversion of 11.03 Ha forest land for up-gradation and widening the existing road into two lane with paved configuration of NH 167B from Km 51/000 to Km 58/500 from Porumamilla to Chandrasekharapuram includes both components of impact mitigation and management of wildlife in the specified area. The mitigation works executed by the user agency and being maintained by the Forest department. Works related to forestry such as clearance of view lines, maintenance of wildlife crossing structures (culverts, underpasses and over passes), maintenance of sign boards & speed breakers, enforcement of violations like over speed, alighting of the road enroute and littering of specified area and road are being done by the Forest Department. Accordingly, the proposed plan broadly divided in to two parts.

6.1 Impact Mitigation Plan :

The impact mitigation measures are to be executed by the user agency. The details have been explained in the Chapter 3 & 4. Mitigation plan include implementation schedule, clear institutional responsibilities for implementation of measures and the approximate cost projection. The real estimation need to be done by the National High way authority depending on the topographical features.

6.1.1 Tentative proposal for mitigation measures executed by User agency .

Sl.no	Details of works	Quantity	Rate	Amount (Rs. In lakhs)
1	Construction of unique overpass facilitating the movement of herds like chital and other animals which don't prefer the underpasses or viaducts or narrow passages to facilitate the flow of animals.	One 50 mt x 12 mt at the specific location.	Rs.30,000/- per sq.mt	180.000
2	Construction of underpasses to facilitate the movement of wild animals from one side to the other side.(4) no.s of Underpasses proposed with a span of 150 mts, 300 mts, 150 mts and 400 mts. The length may slightly altered depending on the terrain, restricted to the plain area of the track on both sides.	Four No.s 1000 Mts.	Rs.30,000/- per sq.mt (exclusive of the cost of the Road)	3010.000
	Tentative caliculation			
	1. 1000mts (Total span) x12 mts (Carriage way) x Rs. 30,000 = 3600 lakhs (as per the Normative Cost Norms for the national Highways vide Ref.RW/NH-24036 /55/201 dated 19 th January 2022.)			

	2. Cost of the Road = 590 lakhs per Km (provided by Voyents Consultancy) 3. Cost of the Road for 1000 Mts. 1.2 Kms x 590 lakhs = Rs.590 lakhs. 4. Cost of under passes for 1000 mts. 3600 - 590 = Rs.3010 lakhs. (Road cost is deducted from the cost of structural area because road is not laid in underpasses.) 5. Overpass also calculated on the same basis and the cost of road was not deducted as the overpass is to be done on the road connecting the both the hills. 6. No specific provision is made here like item 3 by merging the area. The detailed locations have been kept in Chapter 4.			
3	Small culverts are to be placed 2-3 no.s per Km, which are there in the provision of the road by the National High ways authority. The same culverts will be useful for the movement smaller mammals, Reptiles and Amphibians. It is requested to make it still smaller by keeping Angulars or structures .	No specific provision is made here.		
4	Cost of sign boards including fixing on the road (24) no.s and lay out of series of speed breakers (12) places on the stretch of 6 Km road	24 no.s of boards, 12x3 = 36 speed breakers for the length of 6 Km Road		12.000
5	Funnelling of the wild animals near overpass & Overpasses; providing proper fencing.		LS	10.000
6	Provision of pipe culverts, Box culverts on the entire stretch. 2-3 no.s per Km depending on the water courses and necessities, NHAI will make provision in the estimates.	No specific provision is made here.		
7	Misc and unforeseen expenditure		LS	3.000
	Total cost of mitigation for wildlife crossings, Speed breakers & signages. 3215.00			

6.2 Wildlife Conservation works for the improvement of infrastructure and basic requirements for wild animals with in the specified area.

Sl.no	Activity or description of works proposed	Lat Longs	Location	Phy	Fin
1	Habitat improvement & Conservation				
(i)	Development of Natural grass lands over an area of 5 Ha. In various bits of Kavalakuntla Extn. A&B of Tekuripet Beat in Porumamilla Range. If necessary fencing also may be proposed depending on site specific conditions. Estimates may be prepared basing on FSR & Data of that specific area. The operation includes removal of Lantana or unwanted species and tree species in the grass lands.	1) 14.99652 79.06285 2) 15.03136 79.08082 3) 15.00471 79.08282	1) Sobanalabodu 2) Yenamalapenta 3) Chintamanupenta		
	a) Creation			30 Ha	6.600
	b) Maintenance of fodder plots for (3) years			30 Ha	3.000
	Sub total				
(ii)	Dibbling of pre sprouted / treated seed of forest fruit plants and forest flowering plants @ 5 Kgs / Ha in identified suitable patches in Kavalakuntla Extn. A & B Reserve Forests over an area of 60 Ha for 3 years. (Average cost of seed per kg is taken as Rs.200/- per Kg)	1) 14.99129 79.08188 2) 15.03136 79.08082 3) 15.00602 79.05941	1)Marrimanupenta 2)Yenamalapenta 3) Thanakunta Locality	60 Ha	3.000
(iii)	Cost of Salt licks @ Rs. 1000 / 1 No for 4 year i.e., 15 Nos (including cost of transport and fixing at site).			400	4.000
	Sub total				16.600
2	WATER RESOURCES				
(i)	Construction of Saucers in Reserved Forests with specific measurements shown in the plan @ 20,000/- Track to be prepared to move small tanker for refilling the saucers. Locations will be identified by conducting the study of animals and assessing the existing water resources.	1) 15.00258 79.08146 2) 14.99129 79.08188 3) 14.99032 79.08197	1) Kanamrastha (Surrounding area 10 Nos) 2) Marrimanupenta (Surrounding area 10 Nos) 3) Yerrapentalu (Surrounding area 10 Nos)	60	12.000

		4) 15.00285 79.06174 5) 14.99533 79.06449 6) 14.99479 79.079402	4) Thanakunta (Surrounding area 10 Nos) 5) Sobanala Sela (Surrounding area 10 Nos) 6) Yerrapetupenta (Surrounding area 10 Nos)		
(ii)	Improvement of track / path for filling the sauces in the forest to facilitate the movement of Tractor cum trailer			LS	3.750
(iii)	Formation / Improvement of Peroclaotin Tank @3,00,000/-	1) 14.98951 79.06778 2) 15.00917 79.06539 3) 15.00400 79.06615 4) 14.99286 79.06020 5) 14.00245 79.08256 6) 14.98941 79.08127	1) Sobanala Sela 2) Gadidlabodu 3) Yeguvapentala-padi 4) Addagarugulu 5) Ramadandu padi 6) Yerrapentalu	6	18.000
(iv)	Formation of mini percolation tanks @ 50,000/-	1) 14.99331 79.06488 2) 15.00309 79.06397 3) 15.00285 79.06580 4) 15.00035 79.06285 5) 15.00010 79.05874 6) 14.99980 79.05919	1) Addagarugu 2) Kapparamanupadi 3) Thanakunta vagu start 4) Thaanakunta near 5) Addagarugu 6) Addagarugu	6	3.000

(v)	Construction of Check dams in Kavalakuntla Extn. A & B Reserved Forests @ 4.00 lakhs	1) 15.00293 79.06399 2) 14.99769 79.05267 3) 15.00547 79.05629 4) 15.00548 79.06209 5) 14.99904 79.06589 6) 14.99174 79.06484 7) 14.99734 79.05240 8) 15.00200 79.05542 9) 15.00562 79.06481	1) Thanakunta vagu 2) Gundamvagu 3) Gundamvagu 4) Gundamvagu 5) Thanakunta Vagu 6) Sobanala Sela 7) Pudonibavi vanka 8) Thummonipadi 9) Gundamvagu	9	36.000
(vi)	Repairs to tanks and improvement of perennial water resources in the study area.	15.00272 79.06014	Thanakunta	Ls	2.000
(vii)	Digging of Borewell in Kavalakuntla Extn. A & B Reserved forests and installation of Solar panels, fixing of Grundfos motor.Rs 10 lakhs each.	1) 15.00258 79.08146 2) 14.98209 79.08190	1) Kammarenirastha 2) Marrimanupenta	2	20.000
	Sub total				94.75
3	Infrastructure Development				
(i)	Construction of watch tower Rs 10 lakhs per watch tower			2	20.000
(ii)	Construction of semi-permanent structure for base camp Rs.12 lakhs per structure.	1) 15.00258 79.08146 2) 14.98209 79.08190	1) Kammarenirastha 2) Marrimanupenta	2	24.000

(iii)	Improvement of forest roads for extinguishing fires and making convenient to fill the water in saucers by small tanker across forests. 20 Kms	Start 1) 14.99493 79.08435 End 15.03967 79.08235 Start 2) 14.99151 79.08078 End 14.91511 79.09976	1) Kammarenirastha 2) Marrimanupenta Rastha	20	20.000
(iv)	Improvement of office infrastructure such as Rest house, Range Office, Porumamilla, Frontline Staff quarters and Strengthening the Forest Check post, Tekuripet	15.01065 78.98818	Forest Range complex, Porumamilla	6	18.000
	Sub total				82.000
4	Man - Animal Conflict				
(i)	Payment of compensation, Crop damages including preventive steps to reduce man-animal conflict and other issues			Ls	5.000
(ii)	Fencing with 8mm x 8mm chain-link mesh, using angulars duly fixed with CC on either side of the road to avoid wild animal crossing the road. The locations are except underpasses, over passes and retaining wall portion areas.	14.99448 79.06747	Road side Kavalakuntla R.F	6	30.000
	Sub total				35.000
5	Procurement of Water tanker & Tractor and maintenance				
(i)	Cost of tractor cum trailer mounted with a water tank			1	15.000
(ii)	Wages to tractor driver and one assistant for filling of water in the saucer pits. Driver wage @ 22,000/- month for 5 years. Wages to Assistant @10,000/- per month for a period of 5 years. Calculated for (6) months per year.			2	11.100
(iii)	Fuel charges and maintenance for the tractor cum trailer @ 1,20,000/- per (6) months for a period of 5 years			1	6.000
	Sub total				32.100

6	Fire Protection measures					
(i)	Creation of Firelines to a width of 5 mts	14.99743 79.06803	Addagarugu	50 Kms		7.300
(ii)	Maintenance of fire lines (sq.mts.)	14.99643 79.07306	Yerragoiguntalu	40,000 sq.mts.		0.620
(iii)	Procurement of firefighting equipment			Ls		6.000
	Sub total					13.92
7	Awareness & publicity					
(i)	Awareness activities need to be carried out in the villages of Buffer area and surrounding villages. The awareness programs include display of posters, signage, celebration of Wildlife Week, Van mahotsava and other important days related to conservation of wildlife distribution of Brouchures, pamphlets regarding the wildlife and conservation of ecosystem. Organising nature camps involving schools, colleges in the respected area regarding the Wildlife Conservation & Bio diversity.			20		5.000
(ii)	Publicity material preparation like Brochure's, Pamphlets, Posters, calendars etc.,			Ls		5.000
(iii)	Erection of display boards at important places, giving message of Conservation and penal provisions of Wildlife (Protection) Act 1972 15 no.s	15.00110 79.05459	Kavalakuntla R.F Road NH Road Sides	Ls		15.000
	Sub total					25.000
8	Monitoring of Wildlife by installing Cameras					
(i)	Procurement of camera traps 50 no.s					12.500
(ii)	Monitoring the wildlife using camera traps using personnel and maintaing data (includes cost of Computer and data resources)					11.000
	Sub total					23.500
9	Improvement of Communication Network such as installation of Wireless equipment and maintenance etc.,					
(i)	Improvement of Communication Network such as installation of Wireless equipment and maintenance etc.,	15.01065, 78.98818		Ls		20.000
	Sub total					20.000

10	Administrative cost					
(i)	Engaging data entry operators @25,000/- per month for (5) years				1	15.000
(ii)	Procurement and maintenance of Computer Peripherals				Ls	3.750
(iii)	Monitoring and evaluation				Ls	1.600
(iv)	Unforeseen & miscellaneous expenditure(Electricity bills, Stationary etc.,)				Ls	3.780
	Sub total					24.130
	Total of Wildlife Conservation plan works					367.000

The year wise splitup Wildlife Conservation Plan is placed as Annexure 10. The user agency shall execute the proposed works at appropriate locations to the tune of 3215 lakhs towards mitigation measures. User agency shall procure Tractor cum water tanker and hand over to department. Leaving the cost of tractor cum water tanker, rest of the funds Rs.352 lakhs related to wildlife conservation will be deposited with the Chief Wildlife Warden of the State of Andhra Pradesh.

Chapter 7

**Clarification of Tiger Corridor
of
Nagarjunasagar Srisailem Tiger Reserve and Seshacham hills**

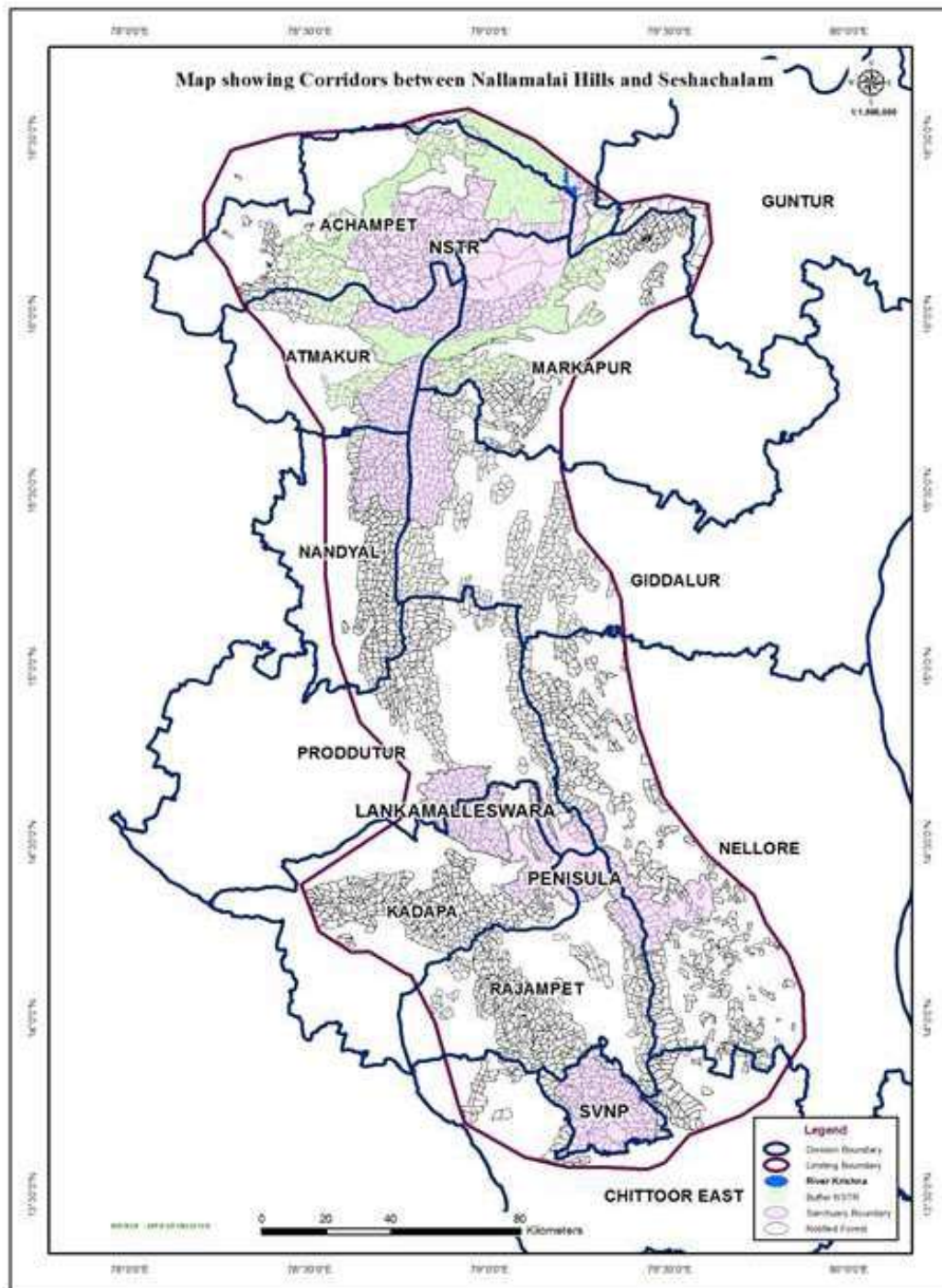
As per the Tiger Conservation Plan *“The length of the corridor between Nagarjunasagar Srisailem Tiger Reserve to Seshachalam Hills of S.V. National Park is about 350 Kms and entire corridor passes through Reserve Forest area and Protected Area which has been mentioned in the table below. The minimum width of the corridor is 3.27Kms and more. The corridor passes through 3 Divisions of Tirupathi WLM Circle, & 3 Divisions of NSTR viz., Chittoor East (WL) Division, Rajampeta WL Division, Tirupathi WLM Division, Nandyal WL Division, Proddatur WL Division and Kadapa.”*

Sl. No.	Division	No. of Compartments	No. of Beats	No. of sections	No. of Ranges	Total Area (in Ha.)	Area under Sanctuary (in Ha.)
1	2	3	4	5	6	7	8
1.	Tirupathi	183	28	11	3	81076.77	53811.37
2.	Chittoor East. (WL)	19	3	2	1	8938.71	0.00
3.	Rajampeta	353	29	12	4	111819.10	0.00
4.	Nandyal (WL)	289	28	16	5	104532.32	37114.37
5.	Proddatur (WL)	181	22	6	4	87179.21	21033.37
6.	Kadapa	164	15	6	4	70903.67	27279.34
	Grand Total :-	1173	125	53	21	464449.78	139238.5

The details of Proddatur Wildlife Management Division area consists of 87179.21 Ha out of which 27279.34 Ha area is under Sanctuaries. The split of the area in to Ranges is shown below. Out of 87,179.21 Ha of Corridor area of Proddatur WLM Division 29,279.18 Ha area falls in Porumamilla Range. **Tekuripet Beat is not the part of the Corridor , hence the present specified area of the proposed road is not notified as Tiger Corridor as per the Conservation Plan.** Though the Map of Corridor which was taken entire forest areas surrounding right from GBM Core to Seshachalam hills are shown in the Map. The Forest Blocks without contiguity of the forest also shown on the Map, however Compartment no.s, Beats, Sections and Range wise detailed statement is prepared to give clarity of the Tiger Corridor between Nagarjunasagar Srisailem Tiger Reserve and Seshachalam hills.

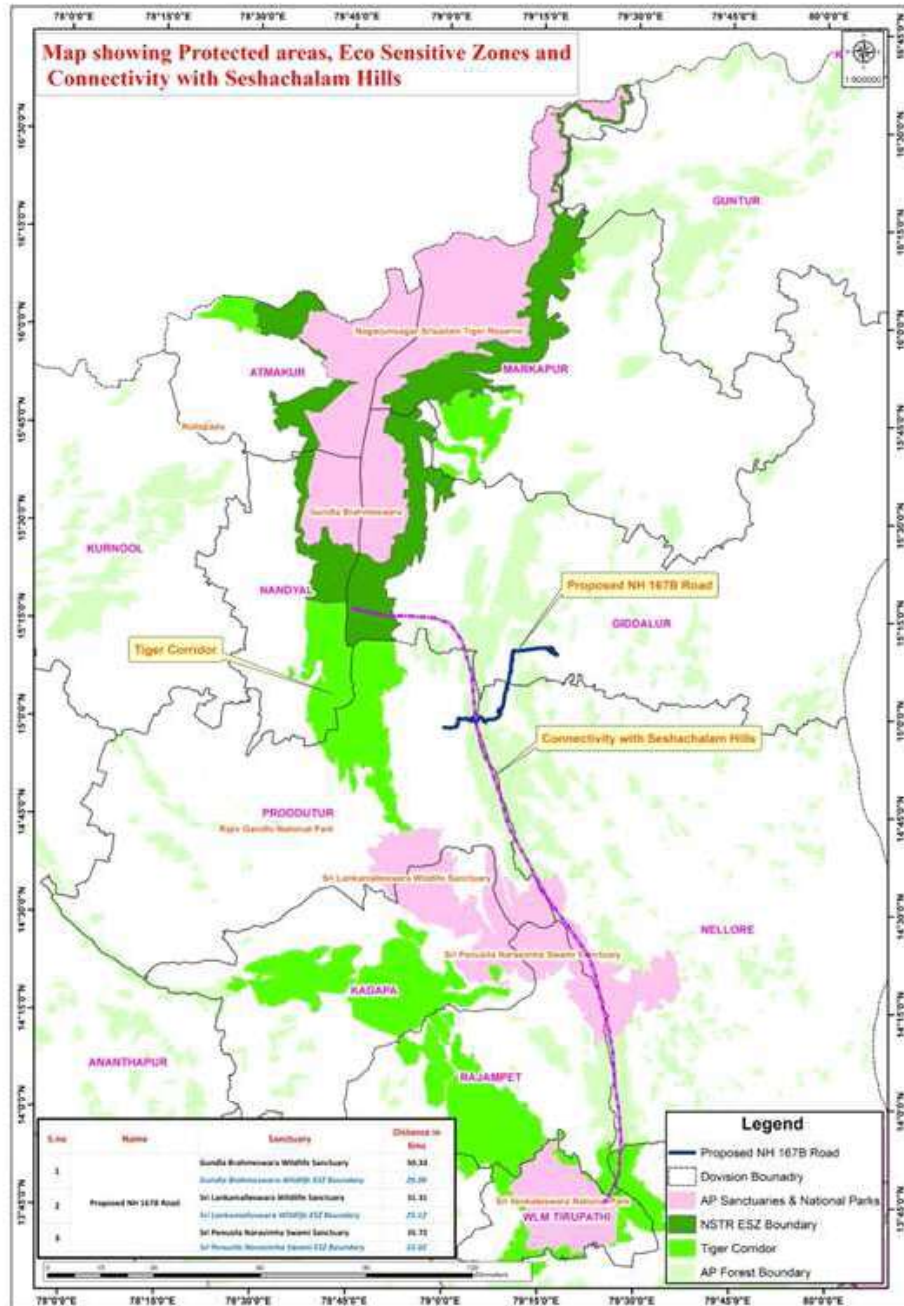
Details of notified Tiger Corridor as per Tiger Conservation Plan of Proddatur WLM Division

Range	Section	Beat	Areas (Ha)
Porumammila	Thambalapalli	Pedhabhavi	4493.00
		Thaduku	4970.00
		Balayapalli	5747.76
		Jyothi	5147.00
	Mallepalli	Itukulapadu	4647.00
		Mallepalli	4274.42
	Total area of the Range		29279.18
Onipenta	Ganjikunta	Thippireddipalli	5635.00
		Neelapuram	4700.00
		Ganjikunta	3755.00
		Kothapalli	4503.12
	Onipenta	Mudireddypalli	5005.00
		Maddivaripalli	3535.00
		Gangayapalli	2602.52
	Total area of the range		29735.66
Badvel	Vothimadugu	Gangireddipalli	3260.00
		Jangamrajupalli	3871.00
		Lothuvanka	5871.19
		Balayapalli	4531.71
	Total area of the Range		17,533.9
Proddatur	Khazipeta	Jandlavaram	2200.00
		Nagasanipalli	1989.23
		Pathur	2225.00
		Bayanapalli	1863.890
		Balasingapalli	2352.350
	Total area of the Range		10630.47
	Total area of the Division		87179.21



The corridor is mostly covered by Seshachalam hill ranges and extended core Gundla Brahmeswaram which is GBM wildlife sanctuary. The terrain is undulating and interrupted with hillocks of igneous rocks. The Principal hill range in this tract of forest consists of Nallamala, Kancherlamoram and Lankamalais, Veligondas, the Seshachalams, Palakondas, which are situated in the Corridor. There were reports of the presence of tiger earlier in the region and habitat suits for it. From Talakona to Velikondas it is a continuous patch

without any fragmentation and habitation. Sri Venkateswara National Park and Sanctuary are part of this region. Moreover, area covering seshachalam hills was declared as Seshachalam Biosphere Reserve (BR) by MOEF during 2011. Though it looks like both corridors reaching Seshachalam hills, the corridor of cumbum range part of veligondas (present specified area) is separated right from Giddalur to Badwel due to presence of huge habitations in between both the Corridors of Forests, however it has connectivity down below to seshachalam hills considered to be corridor though it is specifically not notified as per the Tiger Conservation Plan.



Finally the map showing both the Corridors of Nagarjunasagar Tiger Reserve and Seshachalam hills one is right below of Gundlabrahmeswaram Wildlife Sanctuary or Extended Core of Nagarjunasagar Tiger Reserve to Lankamalleswara Wildlife Sanctuary, then to Penusila Narsimha Wildlife Sanctuary and reaching Seshachalam hills via Kadapa and Rajampet Divisions is the main Corridor and all the compartments enroute are notified as Tiger Corridor. The other Corridor with lot of population in between Nandhyal and Proddatur WLM divisions and fragmented patches reaches surroundings of veligondas (Specific area of the road) and traverses to Seshachalam hills enroute Penusila Narsimha Wildlife Sanctuary and part of Nellore division. Though connectivity down below is there, but basic connectivity with NSTR is highly fragmented, probably with this reason the corridor from veligondas to Seshachalam was not notified.

However every attempt is made to conserve Biodiversity in the specified area i.e., proposed road and to reduce the impact of fragmentation of the forest, facilitate the genetic interchange of both sides of Forests by providing the mitigation measures for the conservation of the wildlife in the specified area. In a clear conclusion presence of the present specified area of the Road is not finding any place in the notified Corridor as per the Tiger Conservation Plan.

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Board of Revenue (Land and Revenue) Forest No. 133, 25th March 1896.

Proceedings of the board of revenue
(Land Revenue).

READ:- the following Government Orders, Nos. 91, 91-A, Revenue dated 3rd March, 1896:-

Read:- Proceedings of the Board of Revenue (Land Revenue) Forests No. 49, dated 3rd February 1896.

Abstract:- Submitting to Government, for approval and publication the draft notification under section 16 of the Forest Act for the constitution of the Kavalakuntla extension blocks in the Badvel taluk, Cuddapah district, as reserved forests.

ORDERS:- No. 91, Revenue, dated 3rd March 1896.

FOREST No. 35

The draft notification will be published in the Fort. St. George and Cuddapah District Gazettes, the 15th May 1896 being entered as the date from which reservation shall take effect.

2. The Government agrees with the Board in the opinion expressed in paragraph 2 of its Resolution.

(True extract)

(Signed) G.S. FORBES,
Secretary to Government.

To the Board of Revenue (Land Revenue) with map.
To Superintendent, Government Press, with notification.

Endorsement No. 91-A.

Copy to the Government of India, Reserve and Agric. Dept.

(Signed) G.S. FORBES
Secretary to Government.

Notification

His Excellency the Governor in council declare under the provisions of section 16 of the Madras Forest Act (V. of 1882), the 15th May, 1896 the area of the boundaries of which are set forth in the schedule appended notification will be constituted a reserved Forest.

-- 2 --

Board of Revenue (Land Revenue) Forest No.133, 25th March 1936.

Schedule

District	Taluk	Name of village.	Number and name of block.	Situation and boundaries
Cuddapah	Badvel	Tsallagigela	18-19 Kavulakuntla Extension.	Block.A

North:- Starting from the north-east corner of khandam No.7 of Tsallagigela along the south boundary of Seshampalli agasham to its south-east corner; and then the south boundary of Kavulakuntla south reserve to the Nellore district boundary.

East:- Thence the Nellore district boundary to the north-east corner of Ganugapenta reserve.

South:- Thence along the north boundary of Ganugapenta reserve to its north-west corner; then north-west to the khandam stone at the south east corner of khandam No.7, and then on to the south-east corner of survey No.367, both of Tsallagigela.

West:- Thence a straight line north--north-east to the khandam No. 7 stone due east of survey No. 370; and then the east limit of khandam No. 6 both of Tsallaghi-gela to the starting point.

-do- Badvel, Cherlopalle and 18-B Yavula- Block B
Kavulakuntla kuntla-extension

North:- Starting from the south-west corner of Kavulakuntla north reserve at a point 4.45 chains south-east of the north-west corner of survey No. 499 of Cherlopalle the south boundary of the Kavulakuntla north reserve to the Nellore district boundary.

East:- Thence the Nellore district boundary to the north-east corner of Kavulakuntla south reserve.

South:- Thence the north boundary of Kavulakuntla south reserve to its north-west corner at a point 19.51 chains south-east of khandam stone on the east side of survey No. 495 of Kavulakuntla.

West:- Thence north-west to the khandam stone on the east side of survey No. 495 of Kavulakuntla; then the east limits of khandam

- 3 -

No.6 of Kavulakuntla Nos. 10 and 7 of Cherlopalle to the Mhandam stone about seventeen and a half chains south-east of the north-west corner of survey No.499 of Cherlopalli and then a straight line to the starting point.

Remarks:- I Right of way over the under-mentioned foot-paths is admitted, Nos. 1 to 3 for men and cattle and No.4 for men only, each to a width of three feet:-

(1) Footpath from Cherlopalle to Seethampuram in the Nellore District. It enters the reserve on the east side of Sankarayyakuntla (survey No.641 of Cherlopalle) runs east for about two miles and enters the limits of the Nellore district.

(2) Foot-path from Cherlopalle to Navasannapeta in the Nellore district. It enters the reserve near the first Mhandam stone on the east side of Mhandam No.6 of Kavulakuntla, runs east and north-east for two miles and enters the limits of the Nellore districts. This is known as the Sobanala pass.