

GOVERNMENT OF TELANGANA
ENVIRONMENT, FORESTS, SCIENCE & TECHNOLOGY (FOR.I) DEPARTMENT

Letter No.719/For.I(1)/2021

Dated:15.02.2022.

From

The Special Chief Secretary to Government,
EFS&T(Forest) Department,
Telangana Secretariat, Hyderabad

To

Regional Officer(Central),
Integrated Regional Office, Hyderabad,
Aranya Bhavan,
Opposite Reserve Bank of India, Saifabad,
Hyderabad - 500004(w.e.)

Sir,

Sub:- EFS&T Dept. - F(C) Act, 1980 - Diversion of **10.413 ha** (8.205 ha in Mancherial Division)(2.208 ha in Chennur Divn.)(revised from 14.1439 ha) (revised to 11.2634 ha) of forest land for widening and Strengthening of NH-63 to Two Lane with paved shoulder from **Mancherial to Chennur Section** in the State of Telangana in Mancherial Forest Division in favour of CE, MoRTH, GoI, Hyderabad.-Reg.

Ref:-1.From the PCCF(HoFF), TS, Hyd, Ref.No.5137/2019-FCA-2,
Dated:15.02.2021.

2.Govt.Letter.No.719/For.I(1)/2021, EFS&T(For.I)Dept.,
dt.01.03.2021.

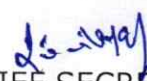
3.From the PCCF, Rc.No.5137/2019/FCA-2, dt.04.05.2021.

4.Govt.Lr.No.719/For.I(1)/2021, Dated:06.05.2021.

5.From the PCCF(HoFF), T.S., Hyd., Ref.No.5137/2019/FCA-2,
Dated:17.01.2022

I am to forward the additional information in respect of the proposal for diversion of **10.413 ha** (8.205 ha in Mancherial Division)(2.208 ha in Chennur Divn.)(revised from 14.1439 ha) (revised to 11.2634 ha) of forest land for widening and Strengthening of NH-63 to Two Lane with paved shoulder from **Mancherial to Chennur Section** in the State of Telangana in Mancherial Forest Division in favour of CE, MoRTH, GoI, Hyderabad, as reported by the Principal Chief Conservator of Forests (HoFF), Telangana State, Hyderabad in the letter 5th cited (copy enclosed) for taking necessary further action in the matter.

Yours faithfully,


for SPECIAL CHIEF SECRETARY TO GOVERNMENT

To

The Principal Chief Conservator of Forests (HoFF),
Telangana State, Hyderabad.

SC.

23/2/22
FCA2.

**GOVERNMENT OF TELANGANA
FOREST DEPARTMENT**

From
Smt. R.Sobha, IFS,
Prl. Chief Conservator of Forests
(Head of Forest Force),
Telangana State, "Aranya Bhavan",
Saifabad, **Hyderabad.**

To
The Special Chief Secretary to the Government,
Forests (EFS&T) Dept.,
Telangana Secretariat,
Aranya Bhavan, Saifabad,
Hyderabad - 500 004.

Ref.No. 5137/2019/FCA-2, Dated: 17.01.2022.

Madam,

Sub:- TSFD-F(C) Act, 1980 – Diversion of **10.413 ha** (8.205 ha in Mancherial Division) (2.208 ha in Chennur Divn.) (revised from 14.1439 ha) (revised to 11.2634 ha) of forest land for Widening and Strengthening of NH-63 to Two Lane with paved shoulder from **Mancherial to Chennur Section** in the State of Telangana in Mancherial Forest Division in favour of CE, MoRTH, GoI, Hyderabad - **Processed proposal submitted –Additional Information furnished - Reg.**

Ref :-

1. EE(R&B) NH Divn., Karimnagar, Lr.No.EE/(NH)/KMNR/2018-19/101, dt.11-03-2019.
2. PCCF's Rc.No.5137/2019/FCA-2, dt. 10-04-2019.
3. GOI, MoRTH, RO,Hyd.,Lr.No.RW/HYD/JB-29/NH(O)/Cor/56, dt.23-04-2019.
4. PCCF's Rc.No.5137/2019/FCA-2, dt. 22-05-2019.
5. CF, FDPT, KTR, Nirmal Rc.No.1912/2019/D2, dt. 22-11-2020.
6. RO, GoI, MoRTH, Hyd., Lr.No.RW/HYD/JB-NH(O)/029/Cor/576, dt.18-01-2021.
7. PCCF's Ref.No.5137/2019/FCA-2, Dated: 15.02.2021.
8. Dy.Dir. General/RO (Central), IRO, Hyd., F.No. 4-TSC181/2021-HYD, dt. 09-04-2021 received through e-mail dated 09-04-2021.
9. PCCF's Ref.No.5137/2019/FCA-2, Dated: 12.04.2021.
10. Dy.Dir. General/RO (Central), IRO, Hyd., F.No. 4-TSC181/2021-HYD,/090, dt. 13-05-2021 received through e-mail dated 13-05-2021.
11. CCF & FDPT, KTR Nirmal Rc.No.1912/2019/D2, dt.19-12-2021.
12. PCCF's Ref.No. 5137/2019/FCA-2, dt. 13.10.2021

With reference to the letter 10th cited, the replies to the EDS raised by the GOI, MoEF&CC, IRO, Hyderabad on the subject project are obtained from the Chief Conservator of Forests/Field Director,Kawal Tiger Reserve, Nirmal (CCF) and User Agency (UA) vide reference 11th cited and furnished as under:

1. Revised exact area for diversion by including RoW portion where the proposed road to be widened/strengthened shall be calculated and updated in the web portal:

Mancherial Division:

It is submitted that, the Chief Conservator of Forests has reported that, District Forest Officer (DFO)/Forest Divisional Officer, Mancherial (FDO) has submitted that, the User Agency has not submitted replies despite of issuing several (seven) reminders by Forest Divisional Officer from 20.5.2021 to 14.09.2021. Finally, the User Agency has conducted Joint DGPS survey of the proposed alignment and furnished the DGPS data to PCCF(HoFF), which has been authenticated and the revised KML and Map depicting the exact area for diversion in map as 10.015 ha communicated to field officers for filed verification.

Further, the Forest Divisional Officer, Mancherial has submitted that, the revised exact area including RoW as per the maps communicated as 10.0150 ha along the existing PWD road on either side. Further, reported that, the User Agency has uploaded the Revised KML showing exact area in web portal.

Further, it is submitted that, the Forest Divisional Officer, Mancherial has informed that, the revised exact area including RoW comes to an extent of 10.0150 ha including RoW in Kundaram RF (~ 5171 m length * 15 m width = 7.757 ha including Row of 2.794 ha (of 3.5 m width) while in Chennur RF (~ 1505 m length*15 m width = 2.258 ha) the RoW is not existing. On excluding RoW area of 2.794 ha in Kundaram RF the net area comes to an extent of 8.205 Ha.

In this regard, it is submitted that Forest Divisional Officer, mancherial has estimated the lengths using the geo-coordinates recorded by using handheld GPS for entry and exit points of each stretch and in ArcView Software. However, the extent of Forest Land involved in mancherial division is 10.015 ha as per DGPS Survey and field verification,

Chennur Division:

The Forest Divisional Officer, Chennur has submitted the revised exact area for diversion in Chennur Division as follows;

Section	Beat	RF Block	Com pt. No.	Coordinates of proposed Road widening at entry of RF		Coordinates of proposed Road widening at Exit of RF		Length of proposed road widening at exit of RF	Width proposed road as per field (in Mtrs)	Existing Right of way width (in Mtrs) ROW as per Gazette	Area of Proposed for diversion excluding RoW as per field (in Ha)	Area of Proposed for diversion including RoW as per field (in Ha)	Remarks
Kistampet	Kistampet	Chennur	310	18.845312	79.713281	79.713281	79.717358	444	7.5	0	0.333	0.333	Normal
Kistampet	Kistampet	Chennur	309	79.713281	79.717358	18.843284	79.725958	932	7.5	0	0.699	0.699	Normal
Kistampet	Kistampet	Chennur	309	18.843284	79.725958	18.843473	79.72642	50.45	13.75	0	0.0694	0.0694	Bell mouth
Kistampet	Kistampet	Chennur	314	18.844618	79.715523	18.843149	79.725979	1376	7.5	0	1.032	1.032	Normal
Kistampet	Kistampet	Chennur	314	18.843149	79.725979	18.843112	79.726446	50.45	13.75	0	0.0694	0.0694	Bell mouth
Total :										0	2.2028	2.2028	

Hence, the extent of forest land involved is as follows:

Division	Extent of Forest Land involved in ha
Mancherial	10.015
Chennur	2.2028
Total:	12.2178

2. Revised kml file duly verified by O/o PCCF, map, enumeration of trees etc., shall be furnished and uploaded in the web portal;

The Forest Divisional Officers, Mancherial & Chennur have submitted the duly verified revised KML File, Map prepared by using DGPS survey and the same has been uploaded in the webportal alongwith & Enumeration of trees.

3. The User Agency shall submit undertaking either to pay cost towards CA as proposed at the time submission of the application or revised CA area and CA as per the revised area for diversion.

The User Agency has furnished the Undertaking to pay cost towards CA as proposed at the time of submission of the application or revised CA area and CA as per the revised area for diversion.

4. Amended Wildlife Mitigation Plan including components of EDC activities prepared by any competent person /Agency with the approval of Chief Wildlife Warden shall be submitted.

The Wildlife Mitigation plan approved by the Chief Wildlife Warden for an amount of Rs.316.084 lakhs and Rs.232.418 lakhs in Chennur and Mancherial Divisions respectively. The same are enclosed herewith.

In view of the above, it is requested to forward the above information to the GoI, MoEF&CC, IRO, Hyderabad for placing the proposal before the next REC.

Encl.: As above.

Yours faithfully
Sd/-R.Sobha
Principal Chief Conservator of Forests
(Head of Forest Force)

Advance copy to the Integrated Regional Officer, MoEF&CC, GoI, 3rd floor, Aranya Bhavan, Saifabad, Hyderabad 500 004.

//True Copy//


for Principal Chief Conservator of Forests


27/10/22



GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT & HIGHWAYS

REGIONAL OFFICE;
Quality Control Building,
Errum Manzil,
Hyderabad-500082
Dated: 20.09.2021

No. RW/HYD/JB-NH(O)/029/Cor/

To

The Principal Chief Conservator of Forests (HOFF),

Govt. of Telangana,

Aranya Bhavan, Hyderabad.

Sub: Diversion of 14.1439 Ha (11.434 Ha of forest land in Mancherla Div. and 2.7099 Ha in Chennur Div.) of forest land for the work "Widening and Strengthening of NH-63 to Two Lane with paved shoulders from Mancherla to Chennur Section in the State of Telangana - Reg.

- Ref: (i) This office Letter No. RW/HYD/JB-29/NH (O)/Cor/56 Dated 23-04-2019.
(ii) This office Letter No. RW/HYD/JB-29/NH (O)/Cor/56 Dated 23-04-2019.
(iii) PCCF, Hyderabad Ref. No. 5137/2019/FCA-2, Dated 18-05-2021.
(iv) DFO, Mancherla Rc. No. 1973/2019/F7A, Dated 20.05.2021, 25.06.2021 & 26.07.2021.

Madam,

This has reference to this office letter cited under reference (i) submitting therewith diversion proposals in 14.439 Ha forest land for taking up the work of "Widening to two/four lane with paved shoulders from km.180/600 to 223/0 of Nizamabad-Jagdalpur road on NH-63".

2. The above-mentioned proposal was recommended for Stage-I approval by State Government, Telangana and the proposal was considered in the REC meeting, IRO, Chennai on 07.05.2021.

3. Subsequently, few clarifications were sought by Dy. Dir. General, IRO, Hyderabad on the proposal and the same was communicated through your letter cited under reference (iii).

4. In this regard, the DGPS survey has been got re-conducted and the revised kml file along with an undertaking to pay cost towards CA as sought is herewith submitted for kind consideration and further necessary action.

Yours faithfully,

Encl: As above.

20 SEP 2021

Dy. Executive Engineer (R&B)
NH Sub-Division, Mancherla.

(S K Kushvaha)

Regional officer, MoRTH - Hyderabad.



सत्यमेव जयते

Tele: 040-23393206
:040-23378549

GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT & HIGHWAYS

REGIONAL OFFICE;
Quality Control Building,
Errum Manzil,
Hyderabad-500082

Undertaking to pay cost of CA

I, the Regional officer, Hyderabad, Ministry of Road Transport & Highways, Government of India hereby undertake to pay cost towards CA proposed at the time of submission of the application or revised CA area and CA as per the revised area for diversion.

Regional Officer,
MoRTH Hyderabad.

Dy. Executive Engineer (R&B),
NH Sub-Division, Mancherla,



GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT & HIGHWAYS

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REGIONAL OFFICE:
Quality Control Building,
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Hyderabad-500082
Dated: 20.09.2021

No. RW/HYD/JB-NH(O)/029/Cor/

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TS PESH
20 SEP 2021

(S K Kushvaha)

Regional officer, MoRTH - Hyderabad.

Ammaiah
Dy. Executive Engineer
(R&B) NH Sub Division,
Mancherial



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:040-23378549

GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT & HIGHWAYS

REGIONAL OFFICE;
Quality Control Building,
Errum Manzil,
Hyderabad-500082

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Regional Officer,
MoRTH Hyderabad.

Dy. Executive Engineer
(R&B) NH Sub Division
Mancherla

Diversion of 14.1439 Ha (11.434 Ha in Mancheria Divn. And 2.7099 Ha in Chennur Divn.) of forest land for widening and strengthening of NH-63 two lane paved shoulder from Mancheria to Chennur section in the State of Telangana in Mancheria Forest Division in favour of CE, MoRTH, GoI, Hyderabad in Chennur Division of Mancheria District KTR Circle for the period of (10) Years.

(TOTAL PROJECT COST 183 CRORES)

WILDLIFE MITIGATION PLAN FOR MANCHERIA DIVISION

Sl. No.	Item of works	Units	Rate	Mancheria		Year wise Plan(Rs. In lakhs)										TOTAL
				Phy	Fin	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	
I	Wildlife protection															
1	Erection of check gates/barricades	Nos.	0.15	100	15.000	4.000	4.000	1.500	1.000	0.750	0.750	0.750	0.750	0.750	0.750	15.000
2	Construction anti poaching hut (Semi permanent structure) for wildlife monitoring	Nos.	7	10	70.000	35.000	35.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	70.000
3	Construction of check post room	Nos.	10	2	20.000	10.000	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	20.000
4	Animal Tracker 3 x 10115 x 12 = 3.67 Rs Lakhs per year	Nos.	3.67	10.00	36.720	3.672	3.672	3.672	3.672	3.672	3.672	3.672	3.672	3.672	3.672	36.720
5	Animal Tracker 2 x 10115 x 12 = Rs. 2.448 Lakhs per year	Nos.	2.45	10.00	24.480	2.448	2.448	2.448	2.448	2.448	2.448	2.448	2.448	2.448	2.448	24.480
6	Man Animal Conflict	Nos.	0.120	50.000	6.000	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	6.000
7	Procurement of Portable Machans/ camping kits	Nos.	1.00	6.00	6.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	6.000
8	Driver, POL & Maintenance Charges	Ls	50.000	1	50	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	50.000
9	Purchase of inspection vehicle for inspection	Nos.	17.000	1	17.000	17.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.000
II	Habitat improvement measures															
1	Percolation tanks with Borewell with solar pump set	Nos.	6	10	60.000	12.000	12.000	12.000	0.000	0.000	0.000	0.000	12.000	12.000	0.000	60.000
2	Construction of saucer pits	Nos.	0.12	50	6.000		0.000	0.000	0.000	0.000	6.000	0.000	0.000	0.000	0.000	6.000
4	Creation of natural grasslands and maint for 3 year	Ha	0.38	100	37.500	4.000	4.000	4.000	4.000	3.500	3.500	3.500	4.000	3.500	3.500	37.500
5	Enrichment planting with NTFP fruit bearing species including fencing and plant cost	Ha	0.220	100	22.000	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	22.000
																0.000
III	Monitoring of wildlife															
1	Procurement of camera traps for monitoring wild animals	Nos.	0.28	200	56.000	10.000	10.000	10.000	0.000	0.000	0.000	10.000	10.000	6.000	0.000	56.000
2	Procurement of Memory cards and batteries for monitoring Wildlife and other wildlife	Nos.	0.01	500	5.000	2.500	2.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000
3	Maintenance of Inspection path	Kms	0.1	100	10.000	2.000	1.000	1.000	0.750	0.750	0.500	1.000	1.000	1.000	1.000	10.000

IV	Publicity & Awareness Activities															0.000
1	Installation of large hoarding and sign boards to propagate the needs for the conservation of flora and fauna of the area	Nos	0.5	15	7.500	1.500	1.500	1.000	1.000	0.500	0.500	0.500	0.500	0.500	0.000	7.500
2	Setting up of regulatory sign boards on speed limits and wild animal crossing zones @ Rs.0.60 per each	Nos	0.2	15	3.000	1.000	0.500	0.500	0.500	0.500	0.000	0.000	0.000	0.000	0.000	3.000
3	Conducting of Awareness programme for Wildlife	Nos.	0.15	15	2.250	0.250	0.500	0.250	0.250	0.250	0.250	0.250	0.250	0.000	0.000	2.250
5	Training & Exposure visit to P.A. Managers & staff	Nos	1	5	5.000	1.000	0.000	1.000	0.000	1.000	0.000	1.000	0.000	1.000	0.000	5.000
V	Fire management															0.000
	Creation of Fire Lines	Km	0.09	250	22.500	3.214	3.214	3.214	3.214	3.214	3.214	3.216	0.000	0.000	0.000	22.500
	Maintenance of Fire Lines for 3 years	Km	0.06	250	15.000		0.560	1.070	1.910	1.910	1.910	1.910	1.910	1.910	1.910	15.000
1	Procurement of fire blowers @ Rs.0.60	Nos	0.6	20	12.000	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	12.000
2	Procurement of fire fighting equipments like shoes, glouse, helmates, spades, crowbars fire beaters etc., @ Rs.	Nos	0.2	50	10.000	2.000	1.500	1.250	1.250	1.000	0.750	0.750	0.500	0.500	0.500	10.000
VI	EDC Activities															
1	Procurement of Solar street lights	Nos	0.15	200	30.000	5.000	5.000	3.000	3.000	3.000	3.000	2.000	2.000	2.000	2.000	30.000
2	Awareness tour to local villagers to P.A areas	Nos	0.3	30	9.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	9.000
3	Procurement of Solar fencing for agricultural crops	Nos	0.09	300	27.000	4.000	4.000	3.000	3.000	3.000	2.000	2.000	2.000	2.000	2.000	27.000
4	Providing of gas connection to villagers to reduce dependency on forests	Nos	0.05	100	5.000	1.000	1.000	1.000	1.000	1.000		0.000	0.000	0.000	0.000	5.000
5	Providing borewell and hand pump	Nos	0.6	20	12.000	3.000	3.000	2.000	2.000	1.000	1.000	0.000	0.000	0.000	0.000	12.000
6	Providing RO water plant	Nos	1.5	20	30.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	30.000
7	Medical Camp	Nos	0.5	10	5.000	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	5.000
8	Veterinary checkup	Nos	0.2	30	6.000	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	6.000
9	Providing School bags, study kits & writting table	Nos	0.04	300	12.000	2.400	1.250	1.200	1.200	1.200	1.000	1.000	1.000	1.000	0.750	12.000

10	Awareness programs to school childrens	Nos	0.3	10	3.000	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	3.000
11	Kalajatha	Nos	0.3	15	4.500	0.563	0.563	0.563	0.563	0.563	0.563	0.563	0.563	0.000	0.000	4.500
	Total				662.45	142.95	122.61	69.07	46.16	44.66	46.46	48.96	56.99	52.68	31.93	662.45
VII	Administrative cost (10% of the works component)				66.245	14.295	12.261	6.907	4.616	4.466	4.646	4.896	5.699	5.268	3.193	66.245
	Grand total				728.70	157.241	134.867	75.973	50.772	49.122	51.102	53.854	62.692	57.948	35.123	728.70

995/11
Forest Divisional Officer
Mancherial

// Counter Signed //

Man
District Forest Officer
Mancherial
A
18/12/2017

Wildlife Mitigation Measures for diversion 12.2178 Ha (Chennur Division-2.208 Ha) of forest land in Mancherla District for widening and strengthening from km 180/6 to Km 223/0 of Nizamabad to Jagadapur Section of NH-63 (old NH-16) with two lane paved shoulder in favour of CE-RO, GOI, MORTH, Hyd in Chennur Range of Chennur Division of of Mancherla District KTR Circle for the period of (10) Years. (Project Cost 183.00 Crores)

SNo	Works Proposed	Unit	2022-23			2023-24			2024-25			2025-26			2026-27		
			Unit cost	Phy	Fin	Unit cost	Phy	Fin	Unit cost	Phy	Fin	Unit cost	Phy	Fin	Unit cost	Phy	Fin
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
I	Habitat improvement																
1	Habitat improvement in forest areas uprootal of exotic invasive weeds for grass development & improvement of regeneration of natural fodder species	Ha	0.120	10	1.200	0.132	10	1.320	0.145	10	1.452	0.160	10.00	1.597	0.176	0.00	0.000
2	Maintenance of area where weed growth is removed																
a	1st year	Ha	0.080	0	0.000	0.088	20	1.760	0.097	10.00	0.968	0.106	10	1.065	0.117	10	1.171
b	2nd year	Ha	0.060	0	0.000	0.066		0.000	0.073	20.00	1.452	0.080	10	0.799	0.088	10	0.878
c	3rd year	Ha	0.040		0.000	0.044		0.000	0.048		0.000	0.053	20	1.065	0.059	10	0.586
3	Habitat improvement in forest areas by uprootal of acacia holoceracea for grass development & improvement of regeneration of natural forest and planting in the pits formed by uprootal areas @ 200 per Ha including cost of plants (uprootal Rs.11000 per Ha + Rs.10000 for cost and planting of tall plants per Ha.	Ha	0.250	0	0.000	0.275	0	0.000	0.303	0.00	0.000	0.333	0	0.000	0.366	0	0.000
4	Enrichment planting with wild NTFP / wild fruit bearing native forest species including fencing and cost of plants @ 200 per Ha	Ha	0.140	0	0.000	0.154	20	3.080	0.169	10	1.694	0.186	10	1.863	0.205	10	2.050
5	Raising of Fodder plots with native grass species duly fenced with chain link of 01 Ha each for the herbivores.	Ha	4.500	0	0.000	4.950	0	0.000	5.445	0	0.000	5.990	0	0.000	6.588	0	0.000
6	Maintenance of Fodder plots																
a	1st year	Ha	0.080	0		0.088	0	0.000	0.097	0	0.000	0.106	0	0.000	0.117	0	0.000
b	2nd year	Ha	0.060	0		0.066	0	0.000	0.073	0	0.000	0.080	0	0.000	0.088	0	0.000
c	3rd year	Ha	0.040	0		0.044	0	0.000	0.048	0	0.000	0.053	0	0.000	0.059	0	0.000
7	Natural Grass land development	Ha	0.200	0	0.000	0.220	0	0.000	0.242	0	0.000	0.266	0	0.000	0.293	0	0.000
8	Maintenance of Grass plots																
a	1st year	Ha	0.090	0	0.000	0.099	0	0.000	0.109	0	0.000	0.120	0	0.000	0.132	0	0.000
b	2nd year	Ha	0.090	0	0.000	0.099	0	0.000	0.109	0	0.000	0.120	0	0.000	0.132	0	0.000
c	3rd year	Ha	0.090	0	0.000	0.099	0	0.000	0.109	0	0.000	0.120	0	0.000	0.132	0	0.000
9	Bamboo nala planting including plant cost	Km	0.120	10	1.200	0.132	10	1.320	0.145	10	1.452	0.160	0	0.000	0.176	0	0.000
10	1st year maintenance Bamboo nala planting	Km	0.070	0	0.000	0.077	10	0.770	0.085	10	0.847	0.093	10	0.932	0.102	0	0.000
11	Under planting of Bamboo for densification of degraded forest @ 200 plants per Ha including cost of plant	Ha	0.060	100	6.000	0.066	100	6.600	0.073	100	7.260	0.080	0	0.000	0.088	0	0.000
12	1st year maintenance Bamboo under planting	Ha	0.030	0	0.000	0.033	100	3.300	0.036	100	3.630	0.040	100	3.993	0.044	0	0.000
13	Erection of Solar pump with PTs	Nos	5.500	1	5.500	6.050	1	6.050	6.655	0	0.000	7.321	0	0.000	8.053	0	0.000
14	SMC works																
a	Construction of Check Dams	No	5	1	5.000	6	1	6	6	1	6.050	7	0	0.000	7	0	0.000
b	Construction of Rock Fill Dams	No	0.1	200	20.000	0	0	0	0	0	0.000	0	0	0.000	0	0	0.000
c	Formation of Percolation Tanks	No	1.5	10	15.000	2	5	10.000	2	2	4.400	1	0	0.000	1	0	0.000
d	Formation of Mini Percolation Tanks	No	0.5	10	5.000	1	10	5.500	1	10	6.050	1	0	0.000	1	0	0.000
e	Digging of SCTs	cum	0.003445	250	0.861	0.004	100	0.379	0.004	50	0.208	0.005	0	0.000	0.005	0	0.000
II	Wildlife protection																
1	Construction of Watch Tower	Nos	15.000	1	15.000	16.500	0	0.000	18.150	0	0.000	19.965	0	0.000	21.962	0	0.000
2	Construction of Anti Poaching Camp	Nos	8.000	1	8.000	8.800	0	0.000	9.680	0	0.000	10.648	0	0.000	11.713	0	0.000
3	Man Animal Conflict	Nos	0.150	30	4.500	0.165	30	4.950	0.182	30	5.445	0.200	30	5.990	0.220	30	6.588
4	Pick model vehicle for anti poaching squad & patrolling	Ls	LS	LS	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000
5	Driver, POL & Maintenance Charges of anti poaching vehicle	Ls	4.800	0	0.000	5.280	0	0.000	5.808	0	0.000	6.389	0	0.000	7.028	0	0.000
6	Vehicle for inspection patrolling	No	15.000	1	15.000	16.500	0	0.000	18.150	0	0.000	19.965	0	0.000	21.962	0	0.000

SNo	Works Proposed	Unit	2022-23			2023-24			2024-25			2025-26			2026-27		
			Unit cost	Phy	Fin	Unit cost	Phy	Fin	Unit cost	Phy	Fin	Unit cost	Phy	Fin	Unit cost	Phy	Fin
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
7	Engaging Drivers on Outsourcing basic		2,400	1	2,400	2,640	1	2,640	2,904	1	2,904	3,194	1	3,194	3,514	1	3,514
8	POL & Maintenance Charges for inspection vehicle		2,400	1	2,400	2,640	1	2,640	2,904	1	2,904	3,194	1	3,194	3,514	1	3,514
9	Constuction of Camp offices																
a	Field Director Project Tiger	No	100,000	0	0,000		0	0,000	0		0,000		0	0,000		0	0,000
b	District Forest Officer	No	60,000	0	0,000		0	0,000	0		0,000		0	0,000		0	0,000
c	Forest Divisional Officer	No	50,000	0	0,000		0	0,000	0		0,000		0	0,000		0	0,000
10	Constuction of Office buidlings																
a	Field Director Project Tiger	No	100,000	0	0,000			0,000			0,000			0,000			0,000
b	District Forest Officer	No	80,000	0	0,000			0,000			0,000			0,000			0,000
c	Forest Divisional Officer	No	70,000	0	0,000			0,000			0,000			0,000			0,000
11	Repairs & Maintenance of buildings																
a	Field Director Project Tiger	No	1,000		0,000	1,100		0,000	1,210	0	0,000	1,331		0,000	1,464	0	0,000
b	District Forest Officer	No	1,000		0,000	1,100		0,000	1,210	0	0,000	1,331		0,000	1,464	0	0,000
c	Forest Divisional Officer	No	1,000	0	0,000	1,100	0	0,000	1,210	1	1,210	1,331	0	0,000	1,464	1	1,464
d	Forest Range Officer	No	2,000		0,000	2,200	0	0,000	2,420	0	0,000	2,662	3	7,986	2,928		0,000
e	Forest Section Officer / Forest Beat Officer	No	1,000	10	10,000	1,100	10	11,000	1,210		0,000	1,331	10	13,310	1,464		0,000
12	Modernization and upgradation of office infrastructure	Ls			10,000	0,000		0,000			10,000						10,000
13	Engaging of man power for maintenances of offices	No	1,800	1	1,800	1,980	1	1,980	2,178	1	2,178	2,396	1	2,396	2,635	1	2,635
14	Engaging of DEOs on outsourcing basis for Data compilation and analysis on improvement of biodiversity and habitat	No	2,400	1	2,400	2,640	1	2,640	2,904	1	2,904	3,194	1	3,194	3,514	1	3,514
III	Monitoring of wildlife																
1	Procurement of Binoculars, Telescopes, A.V. equipment and library books and equipment.	Ls	LS	LS	4,000	LS	LS	5,000	LS	LS	5,000	LS	LS	6,000	LS	LS	4,000
2	Procurement of Camera traps, Memory cards and batteries for monitoring Wildlife and other wildlife	Nos	0,300	25	7,500	0,330	25	8,250	0,363	25	9,075	0,399	25	9,983	0,020	10	0,200
3	Engaging Animal trackers 5 members (5 Nos X 12 months X Rs. 0.13 Lakhs per month for 10 years	Nos	1,560	1	1,560	1,716	1	1,716	1,888	1	1,888	2,076	1	2,076	2,284	1	2,284
4	Engaging of field biologist for data collection analysis and documentation	No	3,600	0	0,000	3,960	0	0,000	4,356	0	0,000	4,792	0	0,000	5,271	0	0,000
5	Maintenance of Inspection path	Kms	1.5	0	0	1,650	0	0,00	1,815	0	0,00	1,997	0	0,00	2,196	0	0,00
IV	Publicitiy, Extension and Education																
1	Sign boards, caution boards and publicity material for all the villages along the river bank and inside the sanctuary	Ls	LS	LS	2,000	LS	LS	2,000	LS	LS	2,000	LS	LS	2,000	LS	LS	2,000
2	Research studies of Biodiversity & Documentation	Ls	LS	LS	0,000	LS	LS	0,000	LS	LS	0,000	LS	LS	0,000	LS	LS	0,000
3	Training & Exposure visit to P.A. Managers & staff	Ls	LS	LS	1,000	LS	LS	1,000	LS	LS	1,000	LS	LS	1,000	LS	LS	1,000
V	EDC Activities																
	Procurement of Solar street lights	Nos	0.15	200	30,000	0.165	0	0,000	0.182	0	0,000	0.200	0	0,000	0.220	0	0,000
	Awareness tour to local villagers to P.A areas	Nos	0.3	20	6,000	0.330	20	6,600	0.363	20	7,260	0.399	0	0,000	0.439	0	0,000
	Procurement of Solar fencing for agricultural crops	Nos	0.09	100	9,000	0.099	100	9,900	0.109	50	5,445	0.120	0	0,000	0.132	0	0,000
	Providing of gas connection to villagers to reduce dependency on forests	Nos	0.05	250	12,500	0.055	100	5,500	0.061	50	3,025	0.067	0	0,000	0.073	0	0,000
	Providing borewell and hand pump	Nos	0.6	5	3,000	0.660	0	0,000	0.726	0	0,000	0.799	0	0,000	0.878	0	0,000
	Providing RO water plant	Nos	1.5	5	7,500	1,650	0	0,000	1,815	0	0,000	1,997	0	0,000	2,196	0	0,000
	Medical Camp	Nos	0.5	25	12,500	0,550	0	0,000	0,605	20	12,100	0,666	0	0,000	0,732	0	0,000
	Veterinary checkup	Nos	0.2	150	30,000	0,220	50	11,000	0,242	0	0,000	0,266	0	0,000	0,293	0	0,000
	Providing School bags, study kits & writting table	Nos	0.04	400	16,000	0,044	100	4,400	0,048	100	4,840	0,053	0	0,000	0,059	0	0,000
	Awareness programs to school childrens	Nos	0.3	10	3,000	0,330	15	4,950	0,363	15	5,445	0,399	0	0,000	0,439	0	0,000
	Kalajatha	Nos	0.3	50	15,000	0,330	50	16,500	0,363	50	18,150	0,399	0	0,000	0,439	0	0,000
V	Administrative Cost.		LS	LS	20,426	LS	LS	10,443	LS	LS	9,173	LS	LS	1,131	LS	LS	0,469
	Total				312,247			158,688			147,409			72,768			45,867

Wildlife Mitigation Measures for diversion 12.2178 H
Jagadapur Section of NH-63 (old NH-16) with two l:

SNo	Works Proposed	Unit cost & Fin: Rs in Lakhs															
		2027-28			2028-29			2029-30			2030-31			2031-32			Total
		Unit cost	Phy	Fin	Unit cost	Phy	Fin	Unit cost	Phy	Fin	Unit cost	Phy	Fin	Unit cost	Phy	Fin	
1	2	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
I	Habitat improvement																
1	Habitat improvement in forest areas uptootal of exotic invasive weeds for grass development & improvement of regeneration of natural fodder species	0.193	0.00	0.000	0.213	0.00	0.000	0.234	0.00	0.000	0.257	0.00	0.000	0.283	0.00	0.000	5.569
2	Maintenance of area where weed growth is removed																
a	1st year	0.129	0	0.000	0.142	0	0.000	0.156	0	0.000	0.171	0	0.000	0.189	0	0.000	4.964
b	2nd year	0.097	10	0.966	0.106	0	0.000	0.117	0	0.000	0.129	0	0.000	0.141	0	0.000	4.095
c	3rd year	0.064	10	0.644	0.071	10	0.709	0.078	0	0.000	0.086	0	0.000	0.094	0	0.000	3.003
3	Habitat improvement in forest areas by uptootal of acacia holoceracea for grass development & improvement of regeneration of natural forest and planting in the pits formed by uptootal areas @ 200 per Ha including cost of plants (uptootal Rs.11000 per Ha + Rs.10000 for cost and planting of tall plants per Ha.	0.403	0	0.000	0.443	0	0.000	0.487	0	0.000	0.536	0	0.000	0.589	0	0.000	0.000
4	Enrichment planting with wild NTFP / wild fruit bearing native forest species including fencing and cost of plants @ 200 per Ha	0.225	10	2.255	0.248	0	0.000	0.273	0	0.000	0.300	0	0.000	0.330	0	0.000	10.942
5	Raising of Fodder plots with native grass species duly fenced with chain link of 01 Ha each for the herbivores.	7.247	0	0.000	7.972	0	0.000	8.769	0	0.000	9.646	0	0.000	10.611	0	0.000	0.000
6	Maintenance of Fodder plots																
a	1st year	0.129	0	0.000	0.142	0	0.000	0.156	0	0.000	0.171	0	0.000	0.189	0	0.000	0.000
b	2nd year	0.097	0	0.000	0.106	0	0.000	0.117	0	0.000	0.129	0	0.000	0.141	0	0.000	0.000
c	3rd year	0.064	0	0.000	0.071	0	0.000	0.078	0	0.000	0.086	0	0.000	0.094	0	0.000	0.000
7	Natural Grass land development	0.322	0	0.000	0.354	0	0.000	0.390	0	0.000	0.429	0	0.000	0.472	0	0.000	0.000
8	Maintenance of Grass plots																
a	1st year	0.145	0	0.000	0.159	0	0.000	0.175	0	0.000	0.193	0	0.000	0.212	0	0.000	0.000
b	2nd year	0.145	0	0.000	0.159	0	0.000	0.175	0	0.000	0.193	0	0.000	0.212	0	0.000	0.000
c	3rd year	0.145	0	0.000	0.159	0	0.000	0.175	0	0.000	0.193	0	0.000	0.212	0	0.000	0.000
9	Bamboo nala planting including plant cost	0.193	0	0.000	0.213	0	0.000	0.234	0	0.000	0.257	0	0.000	0.283	0	0.000	3.972
10	1st year maintenance Bamboo nala planting	0.113	0	0.000	0.124	0	0.000	0.136	0	0.000	0.150	0	0.000	0.165	0	0.000	2.549
11	Under planting of Bamboo for densification of degraded forest @ 200 plants per Ha including cost of plant	0.097	0	0.000	0.106	0	0.000	0.117	0	0.000	0.129	0	0.000	0.141	0	0.000	19.860
12	1st year maintenance Bamboo under planting	0.048	0	0.000	0.053	0	0.000	0.058	0	0.000	0.064	0	0.000	0.071	0	0.000	10.923
13	Erection of Solar pump with PTs	8.858	0	0.000	9.744	0	0.000	10.718	0	0.000	11.790	0	0.000	12.969	0	0.000	11.550
14	SMC works																
a	Construction of Check Dams	8	0	0.000	9	0	0.000	10	0	0.000	11	0	0.000	12	0	0.000	16.550
b	Construction of Rock Fill Dams	0	0	0.000	0	0	0.000	0	0	0.000	0	0	0.000	0	0	0.000	20.000
c	Formation of Percolation Tanks	1	0	0.000	1	0	0.000	1	0	0.000	2	0	0.000	2	0	0.000	29.400
d	Formation of Mini Percolation Tanks	1	0	0.000	1	0	0.000	1	0	0.000	1	0	0.000	1	0	0.000	16.550
e	Digging of SCTs	0.006	0	0.000	0.006	0	0.000	0.007	0	0.000	0.007	0	0.000	0.008	0	0.000	1.449
II	Wildlife protection																
1	Construction of Watch Tower	24.158	0	0.000	26.573	0	0.000	29.231	0	0.000	32.154	0	0.000	35.369	0	0.000	15.000
2	Construction of Anti Poaching Camp	12.884	0	0.000	14.172	0	0.000	15.590	0	0.000	17.149	0	0.000	18.864	0	0.000	8.000
3	Man Animal Conflict	0.242	30	7.247	0.266	30	7.972	0.292	30	8.769	0.322	30	9.646	0.354	30	10.611	71.718
4	Pick model vehicle for anti poaching squad & patrolling	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
5	Driver, POL & Maintenance Charges of anti poaching vehicle	7.730	0	0.000	8.503	0	0.000	9.354	0	0.000	10.289	0	0.000	11.318	0	0.000	0.000
6	Vehicle for inspection patrolling	24.158	0	0.000	26.573	0	0.000	29.231	0	0.000	32.154	0	0.000	35.369	0	0.000	15.000

SNo	Works Proposed	2027-28			2028-29			2029-30			2030-31			2031-32			Total
		Unit cost	Phy	Fin	Unit cost	Phy	Fin	Unit cost	Phy	Fin	Unit cost	Phy	Fin	Unit cost	Phy	Fin	
1	2	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
7	Engaging Drivers on Outsourcing basic	3.865	1	3.865	4.252	1	4.252	4.677	1	4.677	5.145	1	5.145	5.659	1	5.659	38.250
8	POL & Maintenance Charges for inspection vehicle	3.865	1	3.865	4.252	1	4.252	4.677	1	4.677	5.145	1	5.145	5.659	1	5.659	38.250
9	Constuction of Camp offices																
a	Field Director Project Tiger		0	0.000		0	0.000	0.000	0	0.000		0	0.000		0	0.000	0.000
b	District Forest Officer		0	0.000		0	0.000	0.000	0	0.000		0	0.000		0	0.000	0.000
c	Forest Divisional Officer		0	0.000		0	0.000	0.000	0	0.000		0	0.000		0	0.000	0.000
10	Constuction of Office buidlings																
a	Field Director Project Tiger			0.000			0.000	0.000		0.000			0.000			0.000	0.000
b	District Forest Officer			0.000			0.000	0.000		0.000			0.000			0.000	0.000
c	Forest Divisional Officer			0.000			0.000	0.000		0.000			0.000			0.000	0.000
11	Repairs & Maintenance of buildings																
a	Field Director Project Tiger	1.611		0.000	1.933	0	0.000	2.319		0.000	2.783	0	0.000	3.340	0	0.000	0.000
b	District Forest Officer	1.611		0.000	1.933	0	0.000	2.319		0.000	2.783	0	0.000	3.340	0	0.000	0.000
c	Forest Divisional Officer	1.611		0.000	1.933	1	1.933	2.319	0	0.000	2.783	1	2.783	3.340	0	0.000	7.390
d	Forest Range Officer	3.221	3	9.663	3.865		0.000	4.638	3	13.915	5.566		0.000	6.679	3	20.037	51.601
e	Forest Section Officer / Forest Beat Officer	1.611	10	16.105	1.933		0.000	2.319	10	23.191	2.783		0.000	3.340	10	33.396	107.002
12	Modernization and upgradation of office infrastructure						10.000						10.000			10.000	60.000
13	Engaging of man power for maintenances of offices	2.899	1	2.899	3.479	1	3.479	4.174	1	4.174	5.009	1	5.009	6.011	1	6.011	32.562
14	Engaging of DEOs on outsourcing basis for Data compilation and analysis on improvement of biodiversity and habitat	3.865	1	3.865	4.638	1	4.638	5.566	1	5.566	6.679	1	6.679	8.015	1	8.015	43.416
III	Monitoring of wildlife																
1	Procurement of Binoculars, Telescopes, A.V. equipment and library books and equipment.	LS	LS	4.000	LS	LS	4.000	LS	LS	4.000	LS	LS	4.000	LS	LS	4.000	44.000
2	Procurement of Camera traps, Memory cards and batteries for monitoring Wildlife and other wildlife	0.022	20	0.440	0.024	10	0.242	0.027	10	0.266	0.029	10	0.293	0.032	10	0.322	36.571
3	Engaging Animal trackers 5 members (5 Nos X 12 months X Rs. 0.13 Lakhs per month for 10 years	2.512	1	2.512	2.764	1	2.764	3.040	1	3.040	3.344	1	3.344	3.678	1	3.678	24.862
4	Engaging of field biologist for data collection analysis and documentation	5.798	0	0.000	6.378	0	0.000	7.015	0	0.000	7.717	0	0.000	8.489	0	0.000	0.000
5	Maintenance of Inspection path	2.416	0	0.00	2.657	0	0.00	2.923	0	0.00	3.215	0	0.00	3.537	0	0.00	0.000
IV	Publicity, Extension and Education																
1	Sign boards, caution boards and publicity material for all the villages along the river bank and inside the sanctuary	LS	LS	1.000	LS	LS	1.000	LS	LS	1.000	LS	LS	1.000	LS	LS	1.000	15.000
2	Research studies of Biodiversity & Documentation	LS	LS	0.000	LS	LS	0.000	LS	LS	0.000	LS	LS	0.000	LS	LS	3.000	3.000
3	Training & Exposure visit to P.A. Managers & staff	LS	LS	1.000	LS	LS	1.000	LS	LS	1.000	LS	LS	1.000	LS	LS	1.000	10.000
V	EDC Activities																
	Procurement of Solar street lights	0.242	0	0.000	0.266	0	0.000	0.292	0	0.000	0.322	0	0.000	0.354	0	0.000	30.000
	Awareness tour to local villagers to P.A areas	0.483	0	0.000	0.531	0	0.000	0.585	0	0.000	0.643	0	0.000	0.707	0	0.000	19.860
	Procurement of Solar fencing for agricultural crops	0.145	0	0.000	0.159	0	0.000	0.175	0	0.000	0.193	0	0.000	0.212	0	0.000	24.345
	Providing of gas connection to villagers to reduce dependency on forests	0.081	0	0.000	0.089	0	0.000	0.097	0	0.000	0.107	0	0.000	0.118	0	0.000	21.025
	Providing borewell and hand pump	0.966	0	0.000	1.063	0	0.000	1.169	0	0.000	1.286	0	0.000	1.415	0	0.000	3.000
	Providing RO water plant	2.416	0	0.000	2.657	0	0.000	2.923	0	0.000	3.215	0	0.000	3.537	0	0.000	7.500
	Medical Camp	0.805	0	0.000	0.886	0	0.000	0.974	0	0.000	1.072	0	0.000	1.179	0	0.000	24.600
	Veterinary checkup	0.322	0	0.000	0.354	0	0.000	0.390	0	0.000	0.429	0	0.000	0.472	0	0.000	41.000
	Providing School bags, study kits & writing table	0.064	0	0.000	0.071	0	0.000	0.078	0	0.000	0.086	0	0.000	0.094	0	0.000	25.240
	Awareness programs to school childrens	0.483	0	0.000	0.531	0	0.000	0.585	0	0.000	0.643	0	0.000	0.707	0	0.000	13.395
	Kalajatha	0.483	0	0.000	0.531	0	0.000	0.585	0	0.000	0.643	0	0.000	0.707	0	0.000	49.650
V	Administrative Cost.	LS	LS	0.387	LS	LS	0.071	LS	LS	0.000	LS	LS	0.000	LS		0.000	42.099
	Total			60.714			46.310			74.276			54.044			112.388	1084.712

for Annaiah
Regional officer // Counter Signed //
Regional officer
District Forest Officer
Mancheril

Forest Divisional Officer
Chennur