

No.MORTH/PIU/VSKP/Forest/2023/09

Government of India

Ministry of Road Transport & Highways

Project Implementation Unit, Visakhapatnam

D. No. 1-69/6, Near Sai Baba Temple, Ganesh Nagar, Chinamushidiwada,  
Visakhapatnam - 530051. Tele: 0891-3512111.

Dated: 14.06.2023

To,

Divisional Forest Officer,  
Chintapalli Forest Division,  
Government of Andhra Pradesh.

**Sub:** "Rehabilitation and Upgradation to two lane with paved shoulder configuration of Koyyuru - Chaprathipalem - Lambasingi - Paderu section (km 120/000 to km 253/974) of NH-516E in the State of Andhra Pradesh under Green National Highways Corridor Project (GNHCP) with the loan assistance of World Bank" - **Compliance of REC's observations - Reg.**

**Reference:**

- i. Your letter Rc.no.2357/2020/TA dated 07.06.2023
- ii. Prl.CCF&HoFF,A.P.,Mangalagiri letter EFS02-17/29/2021-IT dated 05.06.2023
- iii. Your letter Rc.no.2357/2020/TA dated 26.05.2023
- iv. Letter from Environment, Forest, Science and Technology (Sec.II) Department, Government of Andhra Pradesh, Memo.No.574/Section/2023/2029147 dated 12.05.2023.

Sir,

With reference to the development of subject mentioned stretch of NH-516 E, please refer to your letter mentioned under reference (iii) vide which certain observations has been communicated to this office.

2. In this regard, the compliance to the observations raised has been stipulated as under:

- i. The revised DGPS survey data for the concerned stretches 4, 5 and 6, duly incorporating the existing road, has been authenticated by Prl.CCF&HoFF, A.P., Mangalagiri vide letter dated 05.06.2023 mentioned under reference (ii) and is hereby submitted for further necessary action.

The revised areas of the concerned stretches are as under:

| S.No  | Patch No. | Range       | Original Area 'Ha' | Revised Area 'Ha' | Increase in Area 'Ha' |
|-------|-----------|-------------|--------------------|-------------------|-----------------------|
| 1     | P-4       | Chintapalli | 1.51               | 2.28              | 0.77                  |
| 2     | P-5       |             | 6.30               | 10.09             | 3.79                  |
| 3     | P-6       |             | 1.08               | 2.41              | 1.33                  |
| Total |           |             | 8.89               | 14.78             | 5.89                  |

Accordingly, the overall revised area of the forest clearance proposal has been increased from 60.06 Ha to 65.95 Ha.

- ii. Site specific Wildlife Mitigation Plan has been duly approved by CWLW vide letter Rc.no.3956/2020/TO dated 12.04.2023 and is hereby submitted for further necessary action.

3. In view of the above, the revised map of 03 forest stretches and site specific wildlife mitigation plan is hereby submitted for your consideration and further necessary action.

Encl:

- (i) Revised Maps of 03 stretches
- (ii) Wildlife Mitigation Plan

Yours faithfully,



(Ravishek)

Project Director

Project Implementation Unit, Visakhapatnam

Copy to:

- i. Prl. Chief Conservator of Forest & HoFF, A.P., Guntur for kind information and necessary action.
- ii. The Conservator of Forests, Visakhapatnam for kind information and necessary action.
- iii. Divisional Forest Officer, Paderu for kind information and necessary action.

Copy for information:

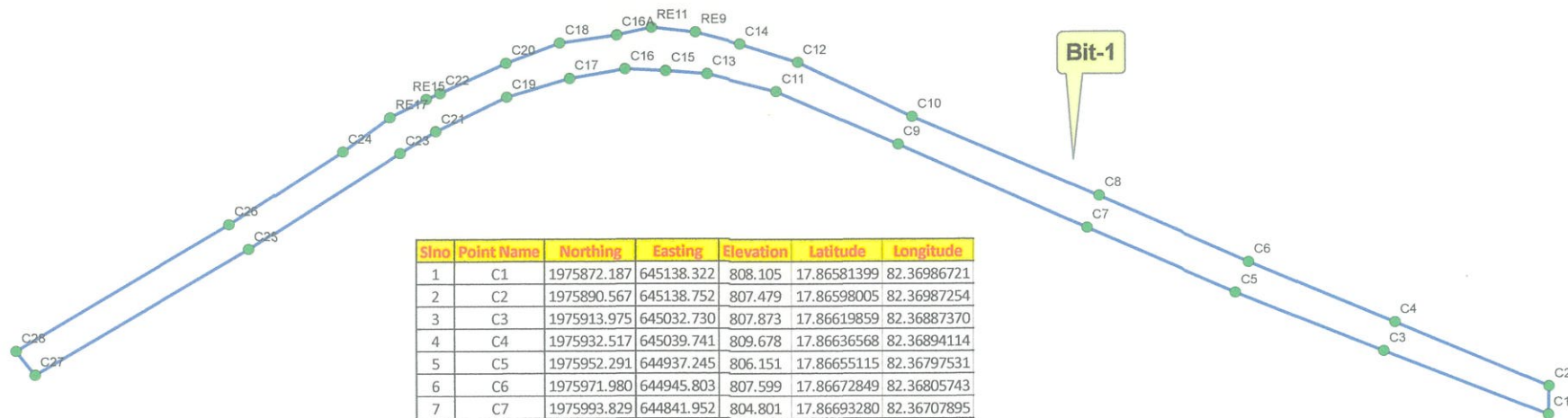
- i. The Inspector General of Forest (Central), Vijayawada, MoEFCC.
- ii. The Regional Officer, Vijayawada, MoRTH for kind information.



**Map Showing the DGPS Points for Diversion of Forest Land for Two Laning of  
Koyyuru to Paderu (Chintapalli Range) Section of NH-516 E in Comp.No : 1378 of Bointi RF ,  
Chintapalli\_North Beat Chintapalli Range in Chintapalli Division, A.P.State.**



1:3000



| Sino | Point Name | Northing    | Easting    | Elevation | Latitude    | Longitude   |
|------|------------|-------------|------------|-----------|-------------|-------------|
| 1    | C1         | 1975872.187 | 645138.322 | 808.105   | 17.86581399 | 82.36986721 |
| 2    | C2         | 1975890.567 | 645138.752 | 807.479   | 17.86598005 | 82.36987254 |
| 3    | C3         | 1975913.975 | 645032.730 | 807.873   | 17.86619859 | 82.36887370 |
| 4    | C4         | 1975932.517 | 645039.741 | 809.678   | 17.86636568 | 82.36894114 |
| 5    | C5         | 1975952.291 | 644937.245 | 806.151   | 17.86655115 | 82.36797531 |
| 6    | C6         | 1975971.980 | 644945.803 | 807.599   | 17.86672849 | 82.36805743 |
| 7    | C7         | 1975993.829 | 644841.952 | 804.801   | 17.86693280 | 82.36707895 |
| 8    | C8         | 1976014.364 | 644849.672 | 804.670   | 17.86711785 | 82.36715322 |
| 9    | C9         | 1976047.919 | 644720.522 | 802.486   | 17.86742960 | 82.36593682 |
| 10   | C10        | 1976065.622 | 644729.494 | 802.455   | 17.86758897 | 82.36602271 |
| 11   | C11        | 1976082.114 | 644641.794 | 800.277   | 17.86774379 | 82.36519626 |
| 12   | C12        | 1976100.900 | 644655.628 | 799.197   | 17.86791263 | 82.36532811 |
| 13   | C13        | 1976093.300 | 644597.174 | 800.277   | 17.86784782 | 82.36477598 |
| 14   | C14        | 1976112.756 | 644618.359 | 798.090   | 17.86802223 | 82.36497723 |
| 15   | C15        | 1976095.399 | 644570.722 | 798.912   | 17.86786853 | 82.36452651 |
| 16   | C16        | 1976096.486 | 644544.488 | 798.616   | 17.86788009 | 82.36427903 |
| 17   | C16A       | 1976118.524 | 644538.996 | 797.425   | 17.86807959 | 82.36422872 |
| 18   | C17        | 1976090.582 | 644508.522 | 799.189   | 17.86782911 | 82.36393923 |
| 19   | C18        | 1976113.377 | 644502.351 | 797.547   | 17.86803550 | 82.36388257 |
| 20   | C19        | 1976078.448 | 644468.156 | 800.229   | 17.86772213 | 82.36355748 |
| 21   | C20        | 1976100.474 | 644467.789 | 796.988   | 17.86792119 | 82.36355553 |
| 22   | C21        | 1976056.404 | 644422.646 | 802.121   | 17.86752594 | 82.36312650 |
| 23   | C22        | 1976081.185 | 644425.311 | 801.507   | 17.86774969 | 82.36315336 |
| 24   | C23        | 1976042.434 | 644399.692 | 801.716   | 17.86740122 | 82.36290894 |
| 25   | C24        | 1976043.755 | 644362.999 | 803.087   | 17.86741557 | 82.36256277 |
| 26   | C25        | 1975980.467 | 644302.356 | 806.163   | 17.86684769 | 82.36198616 |
| 27   | C26        | 1975996.583 | 644289.754 | 805.045   | 17.86699415 | 82.36186835 |
| 28   | C27        | 1975900.049 | 644164.905 | 809.234   | 17.86613007 | 82.36068358 |
| 29   | C28        | 1975915.488 | 644152.820 | 810.532   | 17.86627038 | 82.36057060 |
| 30   | RE9        | 1976120.236 | 644589.777 | 801.378   | 17.86809170 | 82.36470804 |
| 31   | RE11       | 1976123.242 | 644561.403 | 797.923   | 17.86812074 | 82.36444049 |
| 32   | RE15       | 1976077.411 | 644416.540 | 802.189   | 17.86771617 | 82.36307033 |
| 33   | RE17       | 1976065.648 | 644393.139 | 800.855   | 17.86761142 | 82.36284870 |

*Ravishek*

**रविशेक / RAVISHEK**  
परियोजना निदेशक/Project Director  
परियोजना कार्यान्वयन इकाई/Project Implementation Unit  
सड़क परिवहन एवं राजमार्ग मंत्रालय  
Ministry of Road Transport & Highways  
भारत सरकार/Government of India  
विशाखपट्टणम/Visakhapatnam-530051

*Su. Ravi*  
**FOREST RANGE OFFICER**  
(GIS), O/o. Pri.CCF (HoFF),  
Aranya Bhavan, Guntur.

*Su. Ravi*  
**Forest Beat Officer**  
CHINTAPALLI (North)

0 55 110 220 330 440 Meters

The DGPS/GNSS/ETS data is only verified, the absolute locations of Points as per the Gazette Notification shall be verified by the concerned field officers

*[Signature]*  
**Deputy Range Officer**  
Chintapalli

*[Signature]*  
**Divisional Forest Officer**  
CHINTAPALLI

*[Signature]*  
**Forest Range Officer**  
CHINTHAPALLI

**Assessed Area : 2.28 Ha**

**Legend**

- DGPS Points
- DGPS Surveyed Area



**Map Showing the DGPS Points for Diversion of Forest Land for Two Laning of Koyyuru to Paderu (Chintapalli Range)  
Section of NH-516 E in Comp.No : 1590 of Chintapalli RF , Chintapalli\_North Beat and  
in Comp.No: 1586 & 1587 of Lammasingi RF, Lammasingi\_North Beat of Chintapalli Range in Chintapalli Division, A.P.State.**



1:10000

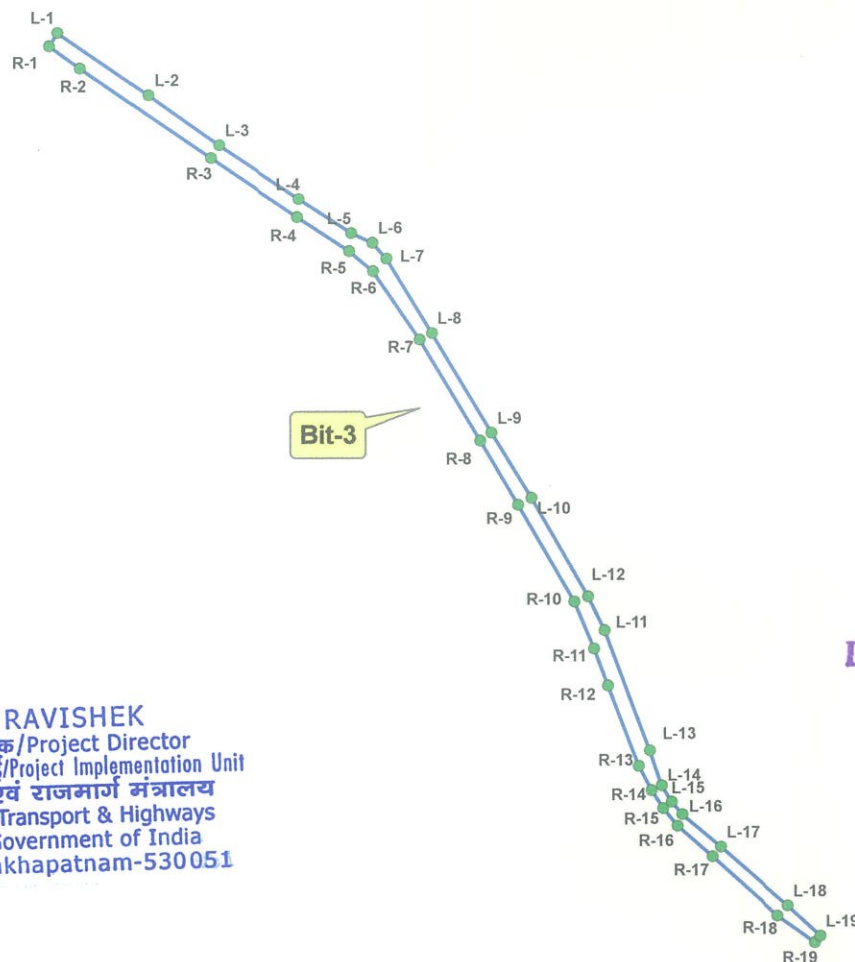
| S.No | Point Name | Northing    | Easting    | Elevation | Latitude    | Longitude   | S.No | Point Name | Northing    | Easting    | Elevation | Latitude    | Longitude   | S.No | Point Name | Northing    | Easting    | Elevation | Latitude    | Longitude   | S.No | Point Name | Northing    | Easting    | Elevation | Latitude    | Longitude   |
|------|------------|-------------|------------|-----------|-------------|-------------|------|------------|-------------|------------|-----------|-------------|-------------|------|------------|-------------|------------|-----------|-------------|-------------|------|------------|-------------|------------|-----------|-------------|-------------|
| 1    | L-1        | 1975547.109 | 646037.047 | 797.553   | 17.86281678 | 82.37832526 | 41   | L-40       | 1974662.403 | 648444.817 | 775.740   | 17.85466063 | 82.40098270 | 81   | R-1        | 1975533.713 | 646014.946 | 797.353   | 17.86269721 | 82.37811578 | 121  | R-42       | 1974687.582 | 648499.164 | 772.159   | 17.85488447 | 82.40149728 |
| 2    | L-2        | 1975534.648 | 646052.167 | 798.387   | 17.86270317 | 82.37846707 | 42   | L-41       | 1974693.502 | 648484.165 | 775.392   | 17.85493898 | 82.40135617 | 82   | R-2        | 1975468.081 | 646082.271 | 800.398   | 17.86209966 | 82.37874650 | 122  | R-43       | 1974750.140 | 648581.310 | 768.671   | 17.85544417 | 82.40227681 |
| 3    | L-3        | 1975481.237 | 646098.530 | 795.799   | 17.86221745 | 82.37890084 | 43   | L-42       | 1974761.112 | 648575.749 | 771.071   | 17.85554369 | 82.40222512 | 83   | R-3        | 1975368.376 | 646156.953 | 798.158   | 17.86119373 | 82.37944426 | 123  | R-44       | 1974754.818 | 648594.397 | 767.961   | 17.85548556 | 82.40240063 |
| 4    | L-4        | 1975386.547 | 646170.268 | 801.901   | 17.86135703 | 82.37957117 | 44   | L-43       | 1974768.876 | 648607.598 | 767.685   | 17.85561169 | 82.40252619 | 84   | R-5        | 1975159.005 | 646319.755 | 800.113   | 17.85929095 | 82.38096587 | 124  | R-45       | 1974756.107 | 648634.184 | 764.951   | 17.85549451 | 82.40277614 |
| 5    | L-5        | 1975281.639 | 646249.354 | 798.278   | 17.86040379 | 82.38031012 | 45   | L-44       | 1974770.035 | 648632.430 | 766.418   | 17.85562048 | 82.40276058 | 85   | R-6        | 1975130.813 | 646337.541 | 802.107   | 17.85903502 | 82.38113173 | 125  | R-46       | 1974762.376 | 648651.432 | 763.251   | 17.85554998 | 82.40293933 |
| 6    | L-6        | 1975173.869 | 646337.358 | 800.230   | 17.85942409 | 82.38113301 | 46   | L-45       | 1974787.974 | 648654.753 | 765.574   | 17.85578106 | 82.40297248 | 86   | R-7        | 1975098.734 | 646354.717 | 799.547   | 17.85874400 | 82.38129156 | 126  | R-47       | 1974770.579 | 648659.983 | 762.483   | 17.85562352 | 82.40302060 |
| 7    | L-7        | 1975136.560 | 646361.572 | 800.190   | 17.85908534 | 82.38135889 | 47   | L-46       | 1974830.195 | 648671.839 | 762.696   | 17.85616141 | 82.40313669 | 87   | R-10       | 1974770.367 | 646465.727 | 789.312   | 17.85576941 | 82.38231612 | 127  | R-48       | 1974782.644 | 648675.737 | 757.392   | 17.85573148 | 82.40317010 |
| 8    | L-8        | 1975108.806 | 646374.159 | 798.839   | 17.85883371 | 82.38147572 | 48   | L-47       | 1974871.347 | 648718.028 | 764.069   | 17.85653013 | 82.40357544 | 88   | R-11       | 1974742.587 | 646483.809 | 791.061   | 17.85551718 | 82.38248480 | 128  | R-49       | 1974819.604 | 648690.335 | 759.690   | 17.85606446 | 82.40331047 |
| 9    | L-9        | 1974953.012 | 646431.912 | 796.269   | 17.85742208 | 82.38200980 | 49   | L-48       | 1974884.220 | 648740.461 | 763.350   | 17.85664493 | 82.40378802 | 89   | R-12       | 1974647.619 | 646567.162 | 790.863   | 17.85465346 | 82.38326467 | 129  | R-50       | 1974841.988 | 648715.802 | 762.090   | 17.85626499 | 82.40355235 |
| 10   | L-10       | 1974815.261 | 646474.197 | 789.907   | 17.85617451 | 82.38239918 | 50   | L-49       | 1974892.531 | 648783.051 | 762.239   | 17.85671713 | 82.40419048 | 90   | R-13       | 1974597.218 | 646610.783 | 785.441   | 17.85419511 | 82.38367274 | 130  | R-51       | 1974863.322 | 648752.328 | 760.800   | 17.85645529 | 82.40389851 |
| 11   | L-11       | 1974779.865 | 646483.263 | 790.807   | 17.85585406 | 82.38248225 | 51   | L-50       | 1974875.284 | 648826.635 | 755.047   | 17.85655833 | 82.40460051 | 91   | R-14       | 1974533.667 | 646664.276 | 782.821   | 17.85361728 | 82.38417304 | 131  | R-52       | 1974871.634 | 648781.539 | 759.683   | 17.85652841 | 82.40417473 |
| 12   | L-12       | 1974756.293 | 646500.113 | 787.152   | 17.85563994 | 82.38263960 | 52   | L-51       | 1974865.445 | 648839.034 | 754.114   | 17.85646858 | 82.40471680 | 92   | R-15       | 1974517.319 | 646680.336 | 782.667   | 17.85346848 | 82.38432344 | 132  | R-53       | 1974854.189 | 648820.648 | 755.055   | 17.85636812 | 82.40454252 |
| 13   | L-13       | 1974664.293 | 646579.444 | 790.614   | 17.85480331 | 82.38338172 | 53   | L-52       | 1974781.762 | 648893.083 | 758.231   | 17.85570875 | 82.40522085 | 93   | R-16       | 1974506.443 | 646699.641 | 781.966   | 17.85336891 | 82.38450483 | 133  | R-54       | 1974760.847 | 648883.893 | 761.105   | 17.85552038 | 82.40513266 |
| 14   | L-14       | 1974617.513 | 646623.547 | 792.536   | 17.85437765 | 82.38379460 | 54   | L-53       | 1974771.782 | 648922.691 | 767.099   | 17.85561655 | 82.40549952 | 94   | R-17       | 1974484.666 | 646751.824 | 781.721   | 17.85316864 | 82.38499569 | 134  | R-55       | 1974747.840 | 648910.821 | 766.844   | 17.85540102 | 82.40538582 |
| 15   | L-15       | 1974543.838 | 646683.113 | 790.803   | 17.85370792 | 82.38435150 | 55   | L-54       | 1974773.513 | 648962.380 | 764.389   | 17.85562950 | 82.40587413 | 95   | R-18       | 1974478.761 | 646805.445 | 779.033   | 17.85311169 | 82.38550123 | 135  | R-56       | 1974748.684 | 648958.104 | 764.381   | 17.85540543 | 82.40583202 |
| 16   | L-16       | 1974521.298 | 646714.442 | 788.921   | 17.85350215 | 82.38464553 | 56   | L-55       | 1974781.443 | 648978.433 | 766.009   | 17.85570006 | 82.40602617 | 96   | R-19       | 1974485.506 | 646864.600 | 782.537   | 17.85316867 | 82.38605987 | 136  | R-57       | 1974766.869 | 648998.133 | 766.128   | 17.85556703 | 82.40621102 |
| 17   | L-17       | 1974502.270 | 646762.617 | 787.842   | 17.85332699 | 82.38509876 | 57   | L-56       | 1974859.016 | 649129.476 | 770.354   | 17.85639073 | 82.40745688 | 97   | R-20       | 1974494.256 | 646944.792 | 784.346   | 17.85324236 | 82.38681714 | 137  | R-58       | 1974839.781 | 649142.184 | 772.625   | 17.85621606 | 82.40757542 |
| 18   | L-18       | 1974498.967 | 646810.552 | 782.826   | 17.85329393 | 82.38555083 | 58   | L-57       | 1974894.390 | 649212.620 | 769.850   | 17.85670471 | 82.40824392 | 98   | R-21       | 1974514.858 | 647080.339 | 780.155   | 17.85341943 | 82.38809756 | 138  | R-59       | 1974874.084 | 649217.239 | 771.918   | 17.85652091 | 82.40828606 |
| 19   | L-19       | 1974505.608 | 646862.357 | 784.465   | 17.85335046 | 82.38604011 | 59   | L-58       | 1974903.896 | 649245.680 | 775.410   | 17.85678836 | 82.40855654 | 99   | R-22       | 1974532.764 | 647189.830 | 785.315   | 17.85357387 | 82.38913193 | 139  | R-60       | 1974882.563 | 649253.524 | 775.879   | 17.85659506 | 82.40862904 |
| 20   | L-20       | 1974516.183 | 646961.751 | 783.812   | 17.85343936 | 82.38697870 | 60   | L-59       | 1974908.219 | 649273.275 | 773.379   | 17.85682554 | 82.40881723 | 100  | R-23       | 1974549.948 | 647288.972 | 785.647   | 17.85372249 | 82.39006861 | 140  | R-61       | 1974887.083 | 649280.379 | 775.992   | 17.85663407 | 82.40888276 |
| 21   | L-21       | 1974528.358 | 647079.023 | 781.722   | 17.85354150 | 82.38808609 | 61   | L-60       | 1974909.554 | 649323.581 | 773.102   | 17.85683417 | 82.40929200 | 101  | R-24       | 1974565.881 | 647380.238 | 784.517   | 17.85386032 | 82.39093088 | 141  | R-62       | 1974888.576 | 649322.061 | 773.701   | 17.85664472 | 82.40927616 |
| 22   | L-22       | 1974545.981 | 647187.860 | 781.884   | 17.85369344 | 82.38911427 | 62   | L-61       | 1974899.923 | 649450.475 | 774.606   | 17.85673850 | 82.41048865 | 102  | R-24A      | 1974568.352 | 647407.385 | 786.089   | 17.85388082 | 82.39118721 | 142  | R-63       | 1974877.768 | 649461.761 | 775.261   | 17.85653753 | 82.41059356 |
| 23   | L-23       | 1974563.314 | 647285.382 | 783.274   | 17.85384351 | 82.39003567 | 63   | L-62       | 1974889.457 | 649600.227 | 776.161   | 17.85663370 | 82.41190092 | 103  | R-25       | 1974567.166 | 647438.544 | 785.004   | 17.85386801 | 82.39148113 | 143  | R-64       | 1974869.084 | 649591.360 | 778.104   | 17.85645022 | 82.41181581 |
| 24   | L-24       | 1974577.676 | 647378.177 | 783.969   | 17.85396704 | 82.39091227 | 64   | L-63       | 1974881.020 | 649737.144 | 780.000   | 17.85654811 | 82.41319223 | 104  | R-26       | 1974558.810 | 647536.869 | 785.563   | 17.85378589 | 82.39240830 | 144  | R-65       | 1974860.948 | 649735.733 | 775.925   | 17.85636684 | 82.41317749 |
| 25   | L-24A      | 1974581.635 | 647414.028 | 783.948   | 17.85400040 | 82.39125082 | 65   | L-64       | 1974875.350 | 649864.255 | 780.594   | 17.85648818 | 82.41439121 | 105  | R-27       | 1974552.117 | 647636.026 | 783.841   | 17.85371873 | 82.39334344 | 145  | R-66       | 1974854.647 | 649866.719 | 781.991   | 17.85630094 | 82.41441298 |
| 26   | L-25       | 1974579.549 | 647436.339 | 785.408   | 17.85398005 | 82.39146119 | 66   | L-65       | 1974868.960 | 649956.630 | 782.194   | 17.85642412 | 82.41526238 | 106  | R-28       | 1974544.488 | 647736.773 | 778.400   | 17.85364300 | 82.39429352 | 146  | R-67       | 1974848.584 | 649951.287 | 782.511   | 17.85624037 | 82.41521051 |
| 27   | L-26       | 1974573.544 | 647537.070 | 784.898   | 17.85391901 | 82.39241124 | 67   | L-66       | 1974861.522 | 650019.617 | 781.716   | 17.85635260 | 82.41585617 | 107  | R-29       | 1974538.435 | 647835.070 | 777.789   | 17.85358168 | 82.39522059 | 147  | R-68       | 1974840.550 | 650021.376 | 780.737   | 17.85616298 | 82.41587127 |
| 28   | L-27       | 1974563.982 | 647636.930 | 784.054   | 17.85382588 | 82.39335281 | 68   | L-67       | 1974853.957 | 650074.332 | 778.428   | 17.85628050 | 82.41637191 | 108  | R-30       | 1974529.709 | 647935.995 | 773.861   | 17.85349601 | 82.39617226 | 148  | R-69       | 1974832.922 | 650074.539 | 778.647   | 17.85609041 | 82.41637235 |
| 29   | L-28       | 1974558.125 | 647738.075 | 778.301   | 17.85376614 | 82.39430676 | 69   | L-68       | 1974849.120 | 650103.882 | 777.229   | 17.85623476 | 82.41665038 | 109  | R-31       | 1974523.171 | 647993.388 | 774.020   | 17.85343306 | 82.39671334 | 149  | R-70       | 1974839.627 | 650075.634 | 778.831   | 17.85615092 | 82.41638317 |
| 30   | L-29       | 1974552.286 | 647837.839 | 776.765   | 17.85370665 | 82.39524769 | 70   | L-69       | 1974826.906 | 650231.807 | 775.449   | 17.85602527 | 82.41785585 | 110  | R-32       | 1974510.553 | 648050.959 | 770.295   | 17.85331515 | 82.39725567 | 150  | R-71       | 1974834.585 | 650104.080 | 778.031   | 17.85610341 | 82.41665121 |
| 31   | L-30       | 1974543.524 | 647937.409 | 777.140   | 17.85362075 | 82.39618658 | 71   | L-70       | 1974808.015 | 650347.384 | 773.659   | 17.85584664 | 82.41894504 | 111  | R-33       | 1974510.562 | 648075.027 | 772.175   | 17.85331361 | 82.39748277 | 151  | R-72       | 1974815.192 | 650230.626 | 776.239   | 17.85591950 | 82.41784387 |
| 32   | L-31       | 1974536.450 | 647999.087 | 775.154   | 17.85355267 | 82.39676805 | 72   | L-71       | 1974788.393 | 650469.102 | 768.392   | 17.85566098 | 82.42009213 | 112  | R-34       | 1974531.949 | 648151.411 | 766.832   | 17.85350170 | 82.39820501 | 152  | R-73       | 1974796.857 | 650345.827 | 771.313   | 17.85574592 | 82.41892955 |
| 33   | L-32       | 1974528.080 | 648048.153 | 773.878   | 17.85347372 | 82.39723043 | 73   | L-72       | 1974780.538 | 650504.457 | 768.943   | 17.85558757 | 82.42042516 | 113  | R-35       | 1974558.394 | 648215.362 |           |             |             |      |            |             |            |           |             |             |



**Map Showing the DGPS Points for Diversion of Forest Land for Two Laning of  
Koyyuru to Paderu (Chintapalli Range) Section of NH-516 E in Chintapalli Range in Chintapalli Division, A.P.State.**



1:6000



| Sino | Point Name | Northing    | Easting    | Elevation | Latitude    | Longitude   |
|------|------------|-------------|------------|-----------|-------------|-------------|
| 1    | L-1        | 1974731.975 | 652262.794 | 792.053   | 17.85502726 | 82.43701260 |
| 2    | L-2        | 1974658.964 | 652369.309 | 790.598   | 17.85436013 | 82.43801232 |
| 3    | L-3        | 1974601.078 | 652450.912 | 787.594   | 17.85383140 | 82.43877808 |
| 4    | L-4        | 1974540.071 | 652542.369 | 787.740   | 17.85327378 | 82.43963658 |
| 5    | L-5        | 1974500.652 | 652603.093 | 790.757   | 17.85291337 | 82.44020667 |
| 6    | L-6        | 1974489.225 | 652627.584 | 794.341   | 17.85280841 | 82.44043692 |
| 7    | L-7        | 1974470.430 | 652643.911 | 794.817   | 17.85263744 | 82.44058961 |
| 8    | L-8        | 1974384.285 | 652696.476 | 793.328   | 17.85185538 | 82.44107931 |
| 9    | L-9        | 1974268.432 | 652764.734 | 792.348   | 17.85080379 | 82.44171492 |
| 10   | L-10       | 1974192.638 | 652810.780 | 791.084   | 17.85011571 | 82.44214386 |
| 11   | L-11       | 1974078.159 | 652876.481 | 791.901   | 17.84907671 | 82.44275542 |
| 12   | L-12       | 1974039.057 | 652895.489 | 792.192   | 17.84872206 | 82.44293192 |
| 13   | L-13       | 1973899.960 | 652947.779 | 790.041   | 17.84746155 | 82.44341515 |
| 14   | L-14       | 1973859.644 | 652961.575 | 789.076   | 17.84709629 | 82.44354238 |
| 15   | L-15       | 1973840.678 | 652973.327 | 788.396   | 17.84692410 | 82.44365188 |
| 16   | L-16       | 1973825.851 | 652985.664 | 789.691   | 17.84678926 | 82.44376720 |
| 17   | L-17       | 1973788.345 | 653030.112 | 784.895   | 17.84644726 | 82.44418383 |
| 18   | L-18       | 1973721.111 | 653107.510 | 782.040   | 17.84583433 | 82.44490918 |
| 19   | L-19       | 1973686.185 | 653145.396 | 781.051   | 17.84551610 | 82.44526409 |
| 20   | R-1        | 1974716.548 | 652253.423 | 791.780   | 17.85488851 | 82.43692306 |
| 21   | R-2        | 1974690.791 | 652289.277 | 788.762   | 17.85465328 | 82.43725949 |
| 22   | R-3        | 1974586.305 | 652441.345 | 786.372   | 17.85369858 | 82.43868674 |
| 23   | R-4        | 1974519.213 | 652540.243 | 787.825   | 17.85308546 | 82.43961501 |
| 24   | R-5        | 1974479.654 | 652600.914 | 792.741   | 17.85272379 | 82.44018459 |
| 25   | R-6        | 1974456.322 | 652628.357 | 795.049   | 17.85251105 | 82.44044183 |
| 26   | R-7        | 1974376.822 | 652682.368 | 798.411   | 17.85178893 | 82.44094566 |
| 27   | R-8        | 1974259.268 | 652751.959 | 793.603   | 17.85072187 | 82.44159371 |
| 28   | R-9        | 1974184.834 | 652795.509 | 793.849   | 17.85004626 | 82.44199920 |
| 29   | R-10       | 1974072.538 | 652860.532 | 792.497   | 17.84902703 | 82.44260453 |
| 30   | R-11       | 1974017.819 | 652883.605 | 792.625   | 17.84853099 | 82.44281824 |
| 31   | R-12       | 1973975.117 | 652899.802 | 790.923   | 17.84814400 | 82.44296795 |
| 32   | R-13       | 1973882.302 | 652935.184 | 789.040   | 17.84730287 | 82.44329503 |
| 33   | R-14       | 1973853.930 | 652950.112 | 790.200   | 17.84704546 | 82.44343381 |
| 34   | R-15       | 1973832.918 | 652963.246 | 788.830   | 17.84685468 | 82.44355620 |
| 35   | R-16       | 1973812.886 | 652979.891 | 788.569   | 17.84667251 | 82.44371178 |
| 36   | R-17       | 1973776.882 | 653020.713 | 785.615   | 17.84634434 | 82.44409432 |
| 37   | R-18       | 1973709.297 | 653095.602 | 782.306   | 17.84572842 | 82.44479597 |
| 38   | R-19       | 1973678.578 | 653139.358 | 780.927   | 17.84544779 | 82.44520657 |

**रविशेक / RAVISHEK**  
परियोजना निदेशक/Project Director  
सड़क परिवहन एवं राजमार्ग मंत्रालय  
Ministry of Road Transport & Highways  
भारत सरकार/Government of India  
विशाखपट्टणम/Visakhapatnam-530051

**FOREST RANGE OFFICER (GIS), O/o. Pri.CCF (HoFF),**  
Aranya Bhevan, Guntur.

**Forest Beat Officer**  
CHINTHAPALLE (North)

**Deputy Range Officer**  
Chintapalli

**Assessed Area : 2.41 Ha**

The DGPS/GNSS/ETS data is only verified, the absolute locations of Points as per the Gazette Notification shall be verified by the concerned field officers

**Legend**

- DGPS Points
- DGPS Surveyed Area

0 110 220 440 660 880 Meters

**GOVERNMENT OF ANDHRA PRADESH  
FOREST DEPARTMENT**

**From**

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

**To**

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

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

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

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

\*\*\*\*\*

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

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



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

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

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

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

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

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

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

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

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

//True copy//

Bhej  
25/5/23

Dy. Conservator of Forests (WL)

25.05.2023



## 6.2. FINANCIAL PLAN

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

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

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

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

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

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



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

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

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

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

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

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

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



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

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

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