**BEFORE THE NATIONAL GREEN TRIBUNAL SOUTHERN ZONE BENCH, CHENNAI**

**Misc. A. No. 6/2025 IN APPEAL No. 23 OF 2023**

**National Highway Authority of India,**
Rep by its Chairman,
G5 & 6, Sector-10, Dwarka,
New Delhi- 110075 ...Petitioner/ 2nd Respondent

**Versus**

**1. Burugla Ramchander Rao,**
S/o B. Gopal Rao, Aged 49 years,
R/o Narsimhulapully Village, Shayampet Mandal,
Hanmakonda District, Telangana- 506319.
And 17 Others ...Respondent(s) / Respondent(s)

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**Place: Chennai**
**Date:20.08.2025**

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Highway plantation methodology is closely integrated with the stages of highway layer construction, ensuring that vegetation both enhances highway aesthetics and contributes to environmental sustainability, soil stabilization, and erosion control.

**Here's a detailed approach:**

# 1. Coordination with Highway Layer Construction

- **Site Preparation :** After initial earthworks and grading, the highway subgrade and embankments are shaped. Before laying upper pavement layers, the planting zones (medians, edges, embankment slopes) are demarcated.
- **Soil Quality :** For plantation, at least 45cm of good quality soil is recommended in identified planting areas to support the healthy growth of grasses, shrubs, and trees. The selection and preparation of soil is done parallel to the construction of foundational layers like subgrade and sub-base to facilitate easy plantation work.

# 2. Plantation Planning

- **Landscape Assesment :** The entire highway corridor is divided into homogenous sections based on climate, topography, soil, and available land. Local flora studies guide the selection of appropriate species.
- **Plantation Zones :**
- ***The first row (next to the highway)*** : small to medium ornamental trees.
- ***Subsequent rows :*** taller, shade-bearing trees, especially in rural stretches.
- ***Medians :*** shrubs and ground covers.
- ***Embankments, slopes, and medians:*** turfing with grass, and planting herbaceous species to minimize erosion and provide green cover.

# 3. Plantation Execution Parallel to Construction Phases

- **Pre-Surfacing :** Once the aggregate base is laid but before the surfacing works (like bitumen or concrete), planting of deep-rooted vegetation takes place, allowing roots to secure the embankment.
- **Top soil Application :** Application of quality topsoil and compost before plantation, ensuring roots have adequate nutrients.
- **Irrigation and Establishment**: Installation of temporary irrigation systems (where possible), particularly before surfacing, to promote healthy initial development.
- **Final Surfacing and protection :** Pay attention to ensuring young plantation is not damaged during paving and subsequent traffic movements.

# 4. Maintenance and Monitoring

- Regular watering, mulching, and replacement of dead or unhealthy plants are integral, especially during the first 1–2 years after highway opening.

# 5. Integration with Highway Layers

- Below is a generalized order of construction and plantation integration:

| Stage | Highway Activity | Plantation Activity |
|---|---|---|
| Earthworks/Post-grading | Shaping subgrade and embankments | Soil enrichment, zone demarcation |
| Sub-base/Base layer | Placement of sub-base and base | Initial pit digging, soil preparation |
| Pavement (blacktop/concrete) | Road surfacing, medians shaping | Tree/shrub planting, turfing medians |
| Finishing | Shoulders/side works | Final planting, mulching, irrigation |

# Summary of Key Points

- Proper soil and irrigation preparation is critical.
- Select native/locally suitable species based on corridor landscape analysis.
- Integrate plantation works to coincide with the construction timeline, particularly post-embankment and before final surfacing.
- Establish maintenance routines for maximum plant survival and highway aesthetics.

**This methodology ensures plantations along highways are effective for both ecological and engineering objectives while aligning with the sequence of highway layer construction.**

# STATUS OF PACKAGE I as on 18.08.2025

| | | |
|---|---|---|
| 1 | Project Name | Construction of 4 lane Access Controlled New Greenfield Highway Section (Mancherial-Warangal) from Narva Village at Design Ch.3.834 Km to Puttapaka Village at Design Ch.35.300 Km (Total Length 31.466) under other Economic Corridor (NH(O)) programme as part of Nagpur-Vijayawada Corridor on Hybrid Annuity mode in the State of Telangana (Package-I) |
| 2 | Concessionaire | M/s MEIL Puttapaka Roadways Private Limited |
| 3 | IE | M/s MSV International Int in JV with M/s Artefact Projects Limited in association with M/s SRIINFOTECH |
| 4 | Total Project length | 31.466 Km |
| 5 | Project Cost | Rs. 841.92 Crores. (Excluding Taxes) |
| 7 | Construction Period | 730 Days |
| 8 | Date of Concession Agreement | 14.07.2023 |
| 9 | Appointed Date declared by | 23.12.2024 (Date of commencement) |
| 10 | Scheduled Date of Completion | 22.12.2026 |
| 12 | Physical Progress (%) | Nil |

**Progress of the works as on date**

| Sl. No. | Description | Details & Quantity as per Contract | Present Status |
|---|---|---|---|
| 1 | Approved ROW | 45/60M | |
| 2 | Project Length | 31.466 Km | Nil |
| 3 | Length of Elevated Structure | Yet to be designed | Nil |
| 4 | Bypass Length | Not applicable as this is green field Highway | - |
| 5 | Service/Slip road Length | 0.66Km/4.256Km | Nil |
| 6 | ROB/RUB (no's & Chainage) | 1 no ROB at Ch. 5+923 | Nil |
| 7 | Major Bridges (no's & Chainage) | 3 no's at Ch. 7+800, 25+450 & 32+459 | 01nos (only test pile at km.25+450 commenced) |
| 8 | Minor Bridges (no's & Chainage) | 16 no's | 2 nos |
| 9 | VUPs (no's)/LVUP (no's) | 4 no's / 4 no's | Nil |
| 10 | Box Culverts | 55nos | 14nos |
| 11 | Pipe Culverts | 44nos | 14nos |
| 12 | LVUPs | 4nos | Nil |
| 13 | Interchange (IC) | 1no | Nil |
| 14 | VUPs with Slip Roads | 4nos | Nil |
| 14 | RE Wall (Length & Chainage) | 10.124 Km as per CA | Nil |
| 15 | C&G | 31.466km | 25.10km |
| 16 | Embankment layers in km | 31.466km | 17.10km |
| 14 | Completed Embankment top layers in km as on date | 0.950km | |
| 15 | Commencement of monsoons | July'2025 | |
| 16 | Weather report-July 2025 | Cumulative rainfall=334 mm & 15th August =181mm | |

| WEATHER REPORT (JULY-2025) | | | | | | |
|---|---|---|---|---|---|---|
| SL No | Date | Temperature (Celsius) | | Humidity (%) | | Rainfall (mm) |
| | | Min | Max | Min | Max | |
| 1 | 7/1/2025 | 27.5 | 29.8 | 74 | 79 | 28.00 |
| 2 | 7/2/2025 | 27.9 | 38.3 | 72 | 78 | 2.00 |
| 3 | 7/3/2025 | 28.9 | 33.3 | 58 | 77 | 3.00 |
| 4 | 7/4/2025 | 29.2 | 34.0 | 55 | 75 | 1.00 |
| 5 | 7/5/2025 | 29.3 | 33.8 | 56 | 76 | 5.00 |
| 6 | 7/6/2025 | 28.6 | 32.7 | 61 | 74 | 8.00 |
| 7 | 7/7/2025 | 28.4 | 29.8 | 66 | 73 | 5.00 |
| 8 | 7/8/2025 | 27.9 | 29.1 | 71 | 76 | 3.00 |
| 9 | 7/9/2025 | 27.5 | 30.2 | 61 | 78 | 2.00 |
| 10 | 7/10/2025 | 27.6 | 30.2 | 70 | 77 | 8.00 |
| 11 | 7/11/2025 | 29.0 | 33.9 | 58 | 75 | Nill |
| 12 | 7/12/2025 | 29.9 | 35.4 | 50 | 76 | Nill |
| 13 | 7/13/2025 | 30.5 | 37.8 | 47 | 63 | Nill |
| 14 | 7/14/2025 | 30.6 | 36.6 | 44 | 63 | Nill |
| 15 | 7/15/2025 | 30.4 | 36.2 | 49 | 65 | Nill |
| 16 | 7/16/2025 | 30.0 | 37.3 | 50 | 82 | 2.00 |
| 17 | 7/17/2025 | 29.1 | 36.0 | 55 | 76 | 3.00 |
| 18 | 7/18/2025 | 28.7 | 36.8 | 49 | 74 | 42.00 |
| 19 | 7/19/2025 | 28.9 | 37.7 | 50 | 75 | 10.00 |
| 20 | 7/20/2025 | 29.8 | 34.7 | 60 | 74 | 2.00 |
| 21 | 7/21/2025 | 28.8 | 30.5 | 65 | 78 | 24.00 |
| 22 | 7/22/2025 | 28.4 | 34.1 | 63 | 83 | 107.00 |
| 23 | 7/23/2025 | 27.9 | 30.2 | 75 | 82 | 11.00 |
| 24 | 7/24/2025 | 27.4 | 38.5 | 77 | 82 | 27.00 |
| 25 | 7/25/2025 | 27.4 | 29.2 | 76 | 81 | 22.00 |
| 26 | 7/26/2025 | 26.7 | 27.8 | 82 | 87 | 15.00 |
| 27 | 7/27/2025 | 27.8 | 32.9 | 65 | 75 | Nill |
| 28 | 7/28/2025 | 28.4 | 33.2 | 56 | 75 | 2.00 |
| 29 | 7/29/2025 | 27.5 | 29.4 | 72 | 83 | 2.00 |
| 30 | 7/30/2025 | 27.6 | 29.2 | 75 | 82 | Nill |
| 31 | 7/31/2025 | 29.1 | 34.6 | 53 | 72 | Nill |
| | **Total Rainfall During The Month (mm)** | | | | | **334.00** |

| WEATHER REPORT (August-2025) | | | | | | |
|---|---|---|---|---|---|---|
| SL No | **Date** | Temperature (Celsius) | | Humidity (%) | | **Rainfall (mm)** |
| | | Min | Max | Min | Max | |
| 1 | 8/1/2025 | 28.80 | 35.80 | 52.00 | 72.00 | 8.00 |
| 2 | 8/2/2025 | 28.50 | 35.80 | 58.00 | 82.00 | 0.00 |
| 3 | 8/3/2025 | 28.90 | 38.90 | 49.00 | 78.00 | 0.00 |
| 4 | 8/4/2025 | 29.70 | 36.00 | 51.00 | 70.00 | 0.00 |
| 5 | 8/5/2025 | 29.60 | 34.50 | 56.00 | 79.00 | 0.00 |
| 6 | 8/6/2025 | 29.80 | 34.70 | 58.00 | 78.00 | 3.00 |
| 7 | 8/7/2025 | 27.50 | 33.80 | 59.00 | 77.00 | 0.00 |
| 8 | 8/8/2025 | 29.00 | 33.60 | 75.00 | 50.00 | 13.00 |
| 9 | 8/9/2025 | 29.10 | 33.60 | 59.00 | 77.00 | 5.00 |
| 10 | 8/10/2025 | 28.90 | 32.20 | 59.00 | 75.00 | 10.00 |
| 11 | 8/11/2025 | 28.80 | 32.30 | 68.00 | 81.00 | 5.00 |
| 12 | 8/12/2025 | 28.20 | 34.40 | 61.00 | 73.00 | 56.00 |
| 13 | 8/13/2025 | 28.00 | 30.00 | 72.00 | 75.00 | 0.00 |
| 14 | 8/14/2025 | 22.20 | 26.80 | 62.00 | 76.00 | 18.00 |
| 15 | 8/15/2025 | 22.40 | 27.20 | 60.00 | 75.00 | 22.00 |
| 16 | 8/16/2025 | 22.60 | 28.80 | 62.00 | 76.00 | 34.00 |
| 17 | 8/17/2025 | 27.60 | 33.30 | 66.00 | 80.00 | 7.00 |
| **Total Rainfall During The Month (mm)** | | | | | | **181.00** |