

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL SOUTHERN ZONE BENCH
AT CHENNAI**

OA No 65 OF 2020

IN THE MATTER OF:

SATYANARAYANA BOLISETTY

..... Applicant

Vs

MINISTRY OF ENVIRONMENT FOREST AND CLIMATE CHANGE & OTHERS

.... Respondents

OA No 74 OF 2020

D.PAL

..... Applicant

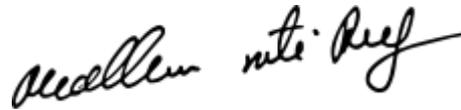
Vs

STATE OF ANDHRA PRADESH & OTHERS

.... Respondents

COMPLIANCE REPORT FILED BY THE COLLECTOR R6

DATE- 25.07.2024



**M/s MADHURI DONTI REDDY
ADVOCATE**

STANDING COUNSEL FOR GOVERNMENT OF ANDHRA PRADESH

A.P. POLLUTION CONTROL BOARD

#26, S2, Royal Castle, Gill Nagar Extension, Choolaimedu, Chennai – 600 094.

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**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL SOUTHERN ZONE
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It is certified that all the documents contained in the above annexure are true copies.

Date: 25.07.2024

Action taken (Compliance) report of the District Collector, Kakinada for filing before the Hon'ble NGT, South Zone, Chennai in O.A.No.65/2020 and 74/2020 on the orders of the Hon'ble NGT on 06.11.2023.

The Hon'ble National Green Tribunal, South Zone, Chennai has delivered orders on 06.11.2023 in O.A.No.65/2020 and 74/2020 and directed that "... it is seen that only the pipe culverts are laid instead of box type culverts which is more useful. Therefore, the same may be converted to box- type culvert and all the remaining culverts should also be box-type only. Regarding the development of mangroves, let the plan that has been prepared by the committee with respect to 58 Hectares of the land be furnished....."

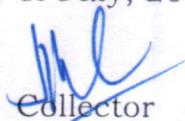
Pursuant to the above directions, I instructed the departments concerned and the members of the Joint Committee for submission of compliance report as per the orders of the Hon'ble NGT.

Accordingly, the reports submitted by the respective officers and members of the Joint Committee are submitted here under for kind perusal.

Directions of the Hon'ble NGT	Action / Progress
With regard to Box Type culverts	The Project Director, NHAI, Rajamahendravaram has reported that the works of the two minor bridges i.e. at Km 5+036 & Km 10+562 are being progressed and the work of the one Box culvert at Km 12+840 is to be commenced. He further reported that 13 more culverts at other locations in the project stretch are also being constructed and are at various stages. The status report submitted by the PD, NHAI, Rajamahendravaram is herewith submitted for kind perusal.
With regard to development of mangroves, let the plan that has been prepared by the committee with respect to 58 Hectares of the land be furnished	The District Forest Officer, Kakinada who is one of the members of the Joint Committee constituted as per the orders of the Hon'ble NGT has communicated a Joint Committee report i.e. "Remedial measures for regeneration and restoration of mangroves in 58 Acres in beach road, Kakinada". A Copy of the report submitted by the members of the Joint Committee is herewith submitted for kind perusal.

This is submitted for kind information of the Hon'ble NGT.

Signed at Kakinada on this the 24 day of July, 2024.


Collector

Kakinada District, Kakinada.

**Government of Andhra Pradesh
Forest Department**

Rc.No.1450/2022-D1
Dated: 01.07.2024

Office of the District Forest Officer,
Kakinada Division, Kakinada.

From
Smt S.Bharani, I.F.S.,
District Forest Officer,
Kakinada Division,
Kakinada

To
The Collector and District Magistrate,
Kakinada District,
Kakinada.



Sir,

Sub: APFD-Wildlife- Original Application no.65 of 2020 (SZ) & 74 of 2020 (SZ) filed in the Hon'ble National Green Tribunal (NGT), Chennai - Implementation of the NGT Joint Committee recommendations - Remedial measures for regeneration and restoration of mangroves - Submission - Reg.

- Ref: 1.Orders of the Hon'ble NGT (Southern Zone), Chennai,
O.A.No.65 of 2020(SZ) & 74 of 2020 (SZ),dt.29.10.2022
2.NGT Orders Communicated by the Judicial Section, NGT SZ,
Dt.20.10.2022
3.District Collector, Kakinada Ref.L2/70/2022; dt: -8-2023.
4.Minutes of the Meeting communicated vide District
Collector, Kakinada Ref.L2/70/2019; dt:26-08-2023.
5.Joint inspection report submitted by the FRO, Kakinada;
6.This office Rc.no.1450/2022-D1; Dt:09-10-2023.
7.This office Rc.no.1450/2022-D1; Dt:07-11-2023.
8.District Collector, Kakinada Ref.L2/70/2019; dt:01-12-2023
9.This office Rc.no.1450/2022-D1; Dt:04-12-2023.
10.District Collector, Kakinada Ref.L2/70/2019; dt:25-6-2024

&&&

With reference to the above, it is submitted that, the Collector and District Magistrate, Kakinada has requested the members of the Joint Committee vide reference 10th cited to provide Management and evaluation plan for restoration of mangroves in 58 Acres of Mangroves in beach road, Kakinada.

Accordingly, a report "Remedial measures for regeneration and restoration of mangroves in 58 Acres" was prepared and the committee meeting was convened on 27-06-2024 to finalize the report.

In this connection, I am herewith submitting the report "Remedial measures for regeneration and restoration of mangroves in 58 Acres in beach road, Kakinada" for information and necessary action.

This is submitted for favour of kind information and necessary action.

Encl: As Above.

Yours faithfully

District Forest Officer
Kakinada Division, Kakinada

01.07.2024

R.O
08/07/24

**Remedial measures for
regeneration and restoration
of mangroves in beach road
(58 Acres)**

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CHAPTER - 1

RESTORATION OF MANGROVES

1. Introduction

This plan outlines a comprehensive strategy to restore mangrove habitat in the land developed for house sites during 2019-2020 to its original position to facilitate the survival of mangroves in the locality.

Restoring mangroves in gravel removed area which is an extent of 58 acres at Beach Road, Kakinada involves several crucial steps and resources. Initially, establishing feeder and main channels using the fish bone technique is essential to ensure optimal water distribution by creating about 50nos. feeder and 210nos. field channels in supporting the establishment of mangrove seedlings and mangrove plantation to be raised with suitable native species to restore the ecosystem.

1.1 PREPATATION OF LAND: The presence of gravel and bunds within the mangrove areas has altered the natural substrate and obstructed the flow of water, disrupting essential ecological processes. These disturbances have the potential to significantly impact mangrove species and associated biodiversity, highlighting the urgency of their removal.

Removal of Debris and Landfill Material: The dumping of garbage, plastics and other solid waste needs to be removed to prepare the soil for planting. Assess the soil quality, water salinity, and tidal patterns.

Improve Soil Quality: Add nutrients or organic matter if the soil is degraded. Ensure the substrate is suitable for mangrove root systems.

Re-establish Hydrology: Restore natural tidal flow and water circulation patterns to ensure proper water levels and salinity.

Construction of Culverts: The construction of Box type culverts at strategic locations, aims to eliminate obstructions and restore the free flow of tidal water through the creek. The Hon'ble NGT in the judgment dated 06-11-2023 recommended for replacing the pipe culverts with box type culverts. Furthermore, it emphasizes that all necessary culverts should conform to the box type design. Therefore,

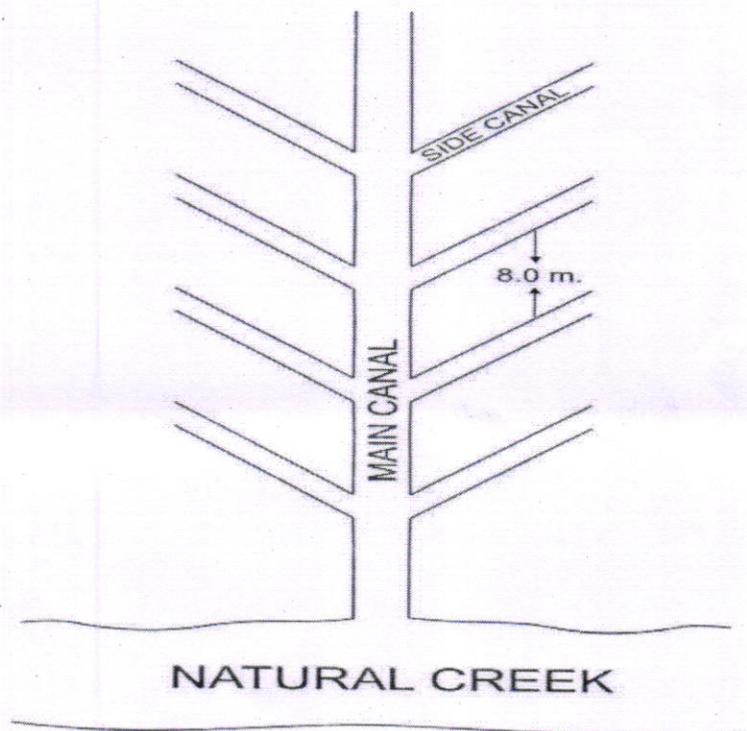
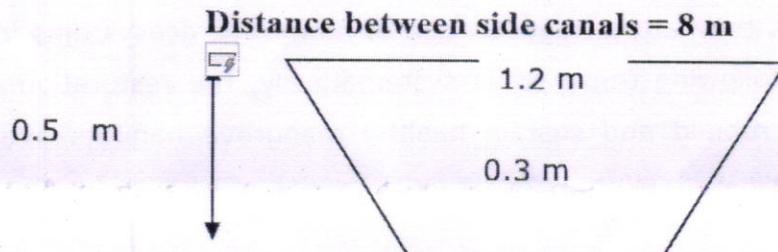
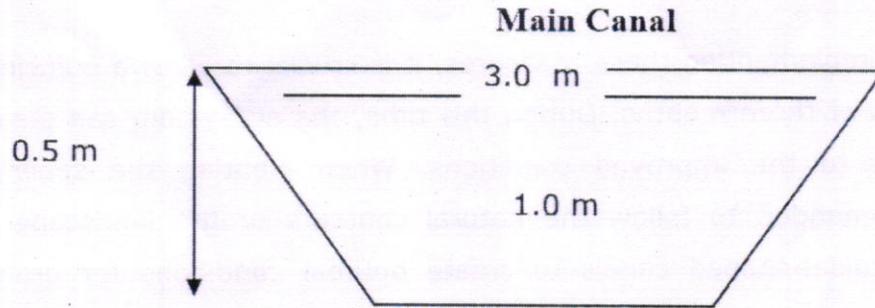
it is proposed to have several box type culverts to facilitate the free flow of tidal water in the creek at the affected site and especially in the vicinity of mangroves.

1.2 Methodology and Techniques

1.2.1 Digging of Feeder & Field Channels: The successful regeneration of the mangrove plants depends on regular water flow in creeks during high tides. Hence, the digging of Field Channels and Feeder Channels are to be taken up as per "FISH-BONE TECHNIQUE" as shown in the diagram. As such "trapezoidal" shaped FEEDER CHANNELS of dimensions of 3.0 m width at the top and 1.0 m at the bottom and 50 cm depth are to be dug up at 300 meters intervals between two feeder channels. Digging of the channels should start from the tail end in order to facilitate easy working and the connection to the creek should be made only after completion of digging the channel.

The angle of the main channel should ideally be at 45° originating from the creek and should not be at 90°. Maintaining an angle of 45° ensures efficient water flow from the creek while preventing any risks associated with overloading the channel. This balance is essential for managing water effectively and integrity of the channel's functionality over time. Another set of channels are to be dug up at 45-degree angle to the feeder channel with dimensions of 1.2 m width at the top, 30cms width at the bottom and 50cms deep at interval about 8 m. These channels are called FIELD CHANNELS. Tidal waters during the high tides will enter into these channels from the creeks.

1.2.2 Desilting works: The desilting works will be taken up regularly to restore proper tidal water flow for the mangroves as well as other marine flora and fauna. The channels are liable to be silted with the flow of water during high tides resulting decrease in the depth of the channels. Hence, if the channels are not desilted regularly; the flow of the water will be reduced and consequently the growth of young seedlings would get adversely affected and may ultimately die. So the desilting of channels is necessary at least for two years in the interest of the plantations. Hence, it is proposed to take up desilting of channels.



- ❖ The angle of the main channel should ideally be at 45° originating from the creek and should not be at 90° .

After implementing these measures, it is crucial to allow a sufficient buffer period of three months. During this time, the ecosystem can stabilize and adjust to the improved conditions. When planting the saplings, it is recommended to follow the natural contours of the landscape, utilizing trapezoidal-shaped canals to create optimal conditions for growth. This approach not only enhances the survival rate of mangrove saplings but also encourages the natural regeneration of mangrove ecosystems in degraded areas. By following these steps systematically, the restoration efforts can effectively rebuild and sustain healthy mangrove habitats over the long term.

CHAPTER -2

Theme Plans for Restoration of Mangrove

2.The restoration plan focuses on two key themes:

1. Establishing a nursery for propagating mangrove saplings to plant in gravel-removed area for restoration of mangrove ecosystems.
2. Placing mangrove seeds along the channels using Mangrove seed dibbling techniques.

2.1 Establishing a nursery for propagating mangrove saplings:

Objective: The project's objective is to restore mangrove ecosystems in the gravel removed area located at Beach Road, Kakinada. This will be achieved through strategic planting and habitat enhancement efforts, including the establishment of a Mangrove nursery at Chollangi(V). The seedlings raised at nursery will be utilized for planting, ensuring the revitalization and sustainability of the mangrove habitat.

1. Nursery Establishment:

- Establishment of a mangrove nursery at Chollangi(V) to raise 50,000 mangrove seedlings and implemented nursery management practices to ensure seedling health and viability for transplantation.

2. Logistics and Transportation:

- Transportation of 37,600 bagged seedlings from mangrove nursery at Chollangi(V) to Beach Road, Kakinada.
- Coordination of logistics for timely delivery and handling of seedlings to minimize transplant stress.

3. Site Preparation and Implementation:

4. Digging of feeder and field channels feeder and main channels using the fish bone technique to ensure optimal water distribution.
 - Digging of feeder and field channels.
 - Installation of necessary infrastructure, including labour shed for on-site operations.
 - Planting of mangrove seedlings using best practices to promote establishment and growth. Mangrove plantation will be taken up with suitable native species of *Excoecaria agallocha*, *Avicennia marina*, *Avicennia officinalis* & *Rhizophora* etc., Total no. of seedlings to be planted in this area are 37,600nos (@1600 seedlings per ha).

2.2 Planting mangrove seeds along the channels using dibbling techniques.

Objective: The objective is to restore mangrove ecosystems in the degraded area at Beach Road, Kakinada, through the strategic planting of mangrove seeds along channels using dibbling techniques.

Methodology

- 1. Digging of Feeder/Field Channels:** Digging feeder or field channels is a critical component of preparing the site for planting mangrove seeds using dibbling techniques in mangrove restoration projects. These channels serve multiple purposes in the restoration process.
- 2. Dibbling of Mangrove Seeds along the Channels:**
 - Purpose: Dibbling the germinated mangrove seeds directly into the substrate of the prepared channels.
 - Implementation: Carefully place the seeds at predetermined intervals and depths within the channels, ensuring optimal conditions for root establishment and growth.
- 3. Providing Plantation Boards:**
 - Purpose: Install boards to demarcate the restoration areas and provide information about the project's objectives and importance.
 - Implementation: Place informative boards at strategic points to educate visitors and locals about the ongoing mangrove restoration efforts and their ecological significance.

4. Erection of Labour Shed at Plantation Site:

- **Purpose:** Provide shelter and facilities for labour and volunteers involved in the planting and maintenance activities.
- **Implementation:** Construct a temporary or semi-permanent shed equipped with basic amenities such as seating, shade, and storage for tools and supplies.

5. Service Charges for Watch and Ward:

- **Purpose:** Ensure ongoing monitoring and protection of the planted mangrove seeds and seedlings from potential threats such as grazing animals or unauthorized human activities.
- **Implementation:** Allocate funds for hiring personnel or engaging local community members to monitor the restoration site, deter illegal activities, and report any issues promptly.

6. Assessment and Documentation of Mangrove Restoration Areas:

- **Purpose:** Evaluate the effectiveness of the restoration efforts and document the progress over time.
- **Implementation:** Establish a systematic assessment framework to monitor seedling survival rates, growth patterns, biodiversity recovery, and overall ecosystem health. Record findings through regular surveys, data collection, and photographic documentation.
- Preparation of detailed reports on project progress, outcomes, and recommendations for future management.

7. Administrative Expenditure:

- **Purpose:** Cover administrative costs associated with planning, coordination, and management of the restoration project.
- **Implementation:** Allocate budget resources for administrative tasks such as project planning, procurement of materials, financial management, reporting, and stakeholder communication.

8. Stakeholder Engagement and Outreach:

- Engagement of local communities, stakeholders, and government agencies through awareness programs and participatory activities.
- Facilitation of knowledge-sharing sessions to promote understanding of mangrove ecosystems and conservation efforts.

Implementing this detailed plan for planting mangrove seed/seedlings along channels using dibbling/planting techniques at Beach Road, Kakinada, is

essential for restoring the degraded mangrove ecosystem. Each component—from preparing planting sites through digging channels, to providing necessary infrastructure like plantation boards and labour sheds, to ensuring ongoing monitoring and documentation—contributes to the success of the restoration efforts. By focusing on these implementation strategies, the project aims to achieve significant ecological benefits such as biodiversity restoration, coastal resilience enhancement, and carbon sequestration. Continued commitment to monitoring, adaptive management, and community engagement will be crucial in ensuring the long-term sustainability and effectiveness of mangrove restoration in this area.

BUDGET**CHAPTER – 3****3.Raising of Mangrove Plantation (58 acres) with Dibbling/seedlings at beach road, Kakinada.**

Sl. No.	Description	Units	Rate	Per	Phy	Fin in lakh
I	Restoration of Mangroves (58Acres /23.50Ha).					
1	Raising of Nursery bag plants (5" X 9") 50,000 nos	Nos	0.349	1000 Nos	50000	3.493
2	1st year Nursery Maintenance	Nos	0.291	1000 Nos	50000	0.874
3	Transportation of bag plants (5" X 9") 50000 nos from Chollangi(v) to beach road	Ls	-		-	0.350
4	Digging of feeder/field channels and dibbling of mangrove seeds along the channels and Planting of Mangrove Bag plant's	Ha	1.024	1 Ha	23.50	24.066
	Dibbling of Mangrove seedlings at Coringa Wildlife Sanctuary	Ha	0.160	1 Ha	23.50	3.760
5	1st year Maintenance	Ha	0.163	1 Ha	23.50	3.823
6	2nd year Maintenance	Ha	0.139	1 Ha	23.50	3.275
7	3rd year Maintenance	Ha	0.086	1 Ha	23.50	2.011
8	Providing Plantation board	Nos	0.022	1 No	5	0.108
9	Erection of labour shed at Plantation site	Each	0.183	1 No	1	0.183
10	Service Charges to watch and ward (2 No. for 36 months/ collector wage rate for unskilled)	Month	0.111	Nos	2	8.010
II	Monitoring and documentation of mangroves.					
11	Assessment and documentation of mangrove habitat areas.	Ls	-		-	2.489
12	Administrative expenditure like Stationery, Travelling allowance and CA Audit fee and other items.	Ls	-		-	2.560
	Grand Total					55.00

3.1 Further Suggestions by the committee members as follows:

1. Digging of field and feeder channels and dibbling of mangrove seedlings activities need to be taken up during the optimal planting season to restore proper tidal water flow for the mangroves to grow in the areas where gravel has been removed.
2. Identify other suitable locations along the beach road for mangrove plantation.

3. Time Line of Work

- ❖ **Establishment of nursery:** September to November.
- ❖ **Digging of channels:** October to November.
- ❖ **Seed Dibbling/ Planting:** October to December.
- ❖ **Causality Replacement:** December to January.

4. Budget:

- ❖ Rates will be determined based on the project's scope.
- ❖ Dibbling and nursery activities are budgeted for 58 acres of land only.
- ❖ Additional budget allocation will be contingent upon the identification of suitable areas for mangrove plantation.

Dr. Suresh Babu Pasupuleti,
Scientist 'D', Ministry of Environment,
Forest and Climate Change, Integrated
Regional Office, Vijayawada

Dr. T. Byragi Reddy,
Expert Member of APCZMA.

Dr. R. Ramasubramanian
Senior Fellow, Coastal Systems Research
Programme, M S Swaminathan Research
Foundation, Chennai.

Smt. S. Bharani, I.F.S.,
District Forest Officer, Kakinada, Forest
Department, Govt. of Andhra Pradesh

Dr. Goldin Quadros,
Principal Scientist (Sci. - E), Division of
Wetland Ecology, SACON (South India
Centre - WII), Coimbatore.

Dr. Manik Mahapatra,
Scientist 'B', National Centre for Sustainable
Coastal Management, Chennai



सत्यमेव जयते
భారత ప్రభుత్వం

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Govt. of India)

परियोजना कार्यान्वयन इकाई - टोयोटा शोरूम के बाजू, राजमार्ग २१६ ए,
दिवानचेरुवु, राजमहेंद्रवरम - ५३३ १०२. आ.प्र.

PROJECT IMPLEMENTATION UNIT - Adjacent to Toyota Showroom,
NH-216A, Diwancheruvu, Rajamahendravaram - 533102, A.P.
द र त / Phone : 0883 - 2431170 ई ईल / e-mail: raj@nhai.org / piurajahmundry@gmail.com



భారత జాతీయ రహదారుల
ప్రాధికార సంస్థ
రాజమహేంద్రవరము

Ref : 11013/4/NHA/PIU/RJY/2022/31258

Date : 20.07.2024

To

The District Collector & Magistrate
Kakinada District
Kakianda

Sir

Sub: **NHAI, PIU, Rajamahendravaram** - Upgradation of Port Connectivity NH Configuration from existing 2-lane to 4-lane road from Achampeta Junction (NH-216) to Kakinada Anchorage Port to Vakalapudi Light House (From Km. 0.000 to Km. 13.198) section of NH-516F in the State of Andhra Pradesh on EPC mode under Bharatmala Pariyojana – **Orders in O.A. No. 65/2020 with OA no. 74/2020, dated 29.09.2022 – Status of Works– Reg.**

- Ref: 1. District Collector & Magistrate, Kakinada letter no. L2/70/2019, dated 25.06.2024
2. Authority Engineer, /s. TPF Engineering Pvt Ltd in association with M/s. Sneha Kiran Techno Consultant Pvt Ltd letter no. TPF-SKTC/516F/2024-25/400, dated 20.07.2024

With reference to your letter cited above, regarding the action taken on the directions of NGT, it is to submit that 02 nos Minor bridges and one (1) culvert are being constructed by NHAI in the subject project stretch as per the details given below:

S. No.	Chainage (Km)	Type of structure	Existing Span arrangement	Span arrangement provided	Status	Remarks
1	5+036	Minor Bridge	4 x 4.03 m	1 x 24.0 m	Work in progress	Photos attached
2	10+562	Minor Bridge	1 x 4.0 m	2 x 20.0 m	Work in progress	Photos attached
3	12+840	Box culvert	Nil	1x2x2.0 m	To be commenced	Requested by NGT Officials

Further, it is to submit that the box culvert at Km.12+840 is provided as per the proposal of NGT Officials in the vicinity of mangroves.

In addition to above, 13 more culverts are also being constructed in the Project Stretch and are at various stages. The status of structures, Line diagram and Photographs are enclosed as Annexure-I,II & III, for your kind reference.

Thanking you

Encl: As above

Yours faithfully


(D. Surendranath)
Project Director

Building a Nation, Not Just Roads

 TPF ENGINEERING PVT. LTD.	TPF ENGINEERING Pvt. Ltd. In Association with Sneha Kiran Techno Consultants Pvt. Ltd.	 SKTC
	H. No.: 9-116, Plot No.: 54, 3rd Road, SBI Employees Colony, Samalkot – Kakinada ADB Road, Kakinada. Andhra Pradesh – 533005. Email: tpfsktckakinada@gmail.com	

Letter No. TPF-SKTC/NH516F/2024-25/400

Date: 20-07-2024

To
The Project Director
Project Implementation Unit,
 NH216A, Diwancheruvu,
 Adjacent to Toyota Showroom,
 Rajamahendravaram - 533102

Subject: Up-Gradation of port connectivity NH configuration from existing 2-lane to 4-lane road from Achhampeta Junction to Kakinada Anchorage port connecting Vakalpudi lighthouse (from Km. 0/000 to Km. 13/198) under Bharatmala Scheme.

Reg: Compliance report on the NGT Officials observations

Reference: 1) Contract Agreement No. IN-DL 28530058221529U, Dtd: 12-05-2022.
 2) PIU Office mail dated.01.12.2023.
 3) Collector's office, Kakinada, letter no. L2/70/2019, dated.01.12.2023.
 4) Our letter no. TPF-SKTC/NH516F/2023-24/279, dated.02.12.2023.

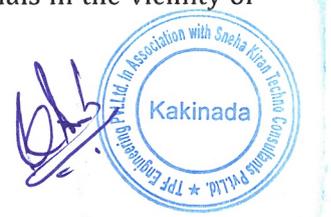
Dear Sir,

With reference to the above subject and cited letter references (2 & 4), the culverts/Minor Bridges are provided at the vicinity of mangroves as given below.

S.No.	Chainage (Km)	Type of structure	Existing Span arrangement	Span arrangement provided	Status	Remarks
1	5+036	Minor Bridge	4 x 4.03 m	1 x 24.0 m	Work in progress	Photos attached
2	10+562	Minor Bridge	1 x 4.0 m	2 x 20.0 m	Work in progress	Photos attached
3	12+840	Box culvert	Nil	1x2x2.0 m	To be commenced	Requested by NGT Officials

The span of the existing minor bridges are increased for free flow of saline water for mangroves as given above.

At Km.12+840 Box culvert is provided as per the proposal of NGT Officials in the vicinity of mangroves.



1401, Rupa Sapphire, Plot no.12, Sector-18, Opposite Sanpada Railway Station, On SionPanvel Highway, Vashi, Navi Mumbai-400705.

TEL.: +91 22 69063300 to 3330 FAX: +91 22 4127 3306

R.O.: Unit No.10, Banking Complex No.II, Sec-19A, Plot No. 9 & 10, Vashi, Navi Mumbai – 400705. INDIA.

CIN: U74999MH2015FTC269228

tenders@tpfepl.com – www.tpfepl.com – www.tpf.eu



 TPF ENGINEERING PVT. LTD.	TPF ENGINEERING Pvt. Ltd. In Association with Sneha Kiran Techno Consultants Pvt. Ltd.	 SKTC
	H. No.: 9-116, Plot No.: 54, 3rd Road, SBI Employees Colony, Samalkot – Kakinada ADB Road, Kakinada. Andhra Pradesh – 533005. Email: tpfsktckakinada@gmail.com	

At Regular intervals structures / culverts are proposed as per Contract Agreement and status of structures is attached as Annexure-I, Line diagram as Annexure-II and Photographs as Annexure-III for your kind reference.

This is for your information.

Thank you and assuring you best services at all times.

Yours Sincerely


Team Leader
TPF ENGINEERING PVT. LTD. in Association with
Sneha Kiran Techno Consultants Pvt. Ltd.



Attachments: 1. Annexure-I : Status of Structures
 2. Annexure-II: Line diagram
 3. Annexure-III: Structure photographs

C/c: The Authorized Representative, TPF-SKTC JV, Hyderabad.



1401, Rupa Sapphire, Plot no.12, Sector-18, Opposite Sanpada Railway Station, On SionPanvel Highway, Vashi, Navi Mumbai-400705.

TEL.: +91 22 69063300 to 3330 FAX: +91 22 4127 3306

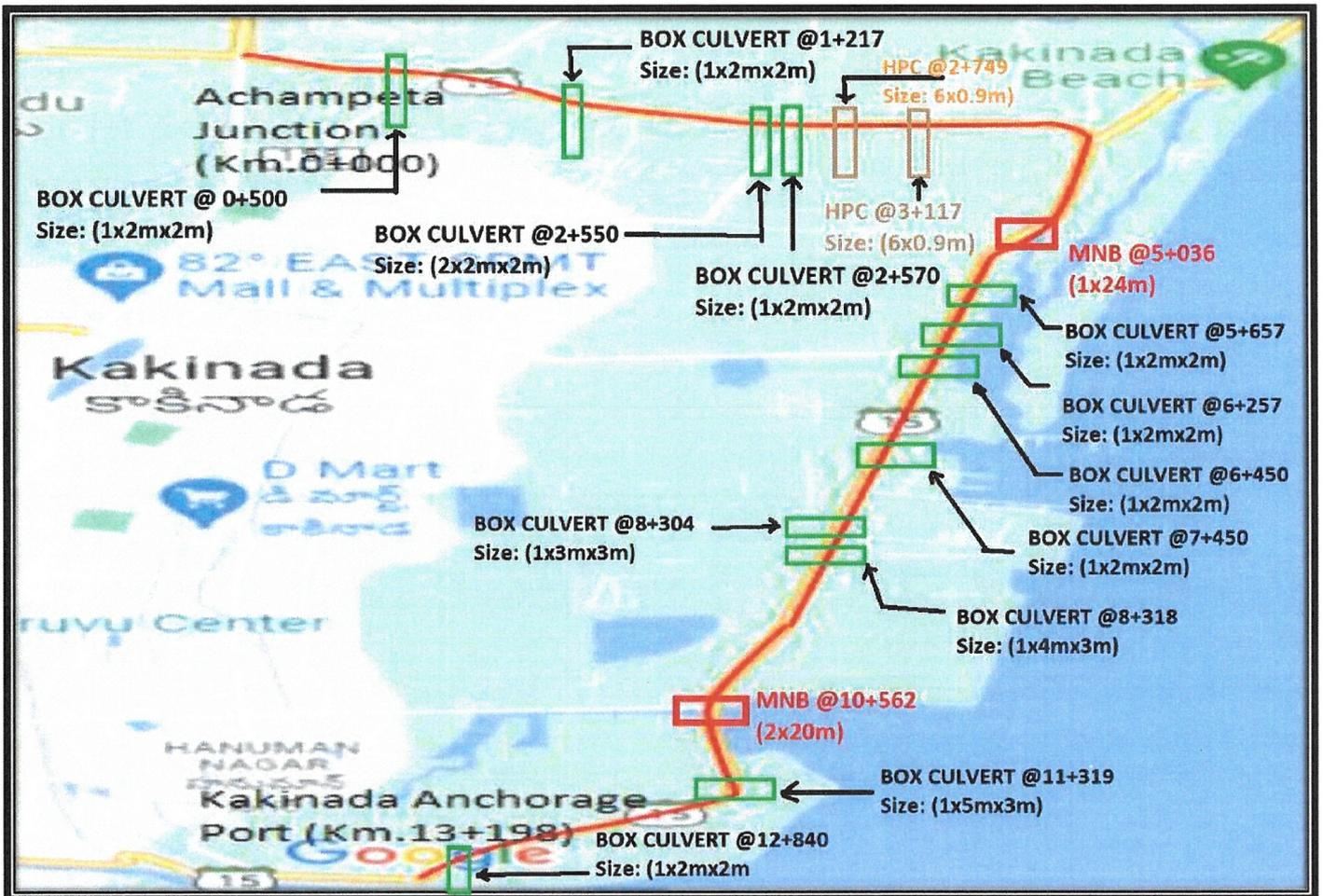
R.O.: Unit No.10, Banking Complex No.II, Sec-19A, Plot No. 9 & 10, Vashi, Navi Mumbai – 400705. INDIA.

CIN: U74999MH2015FTC269228

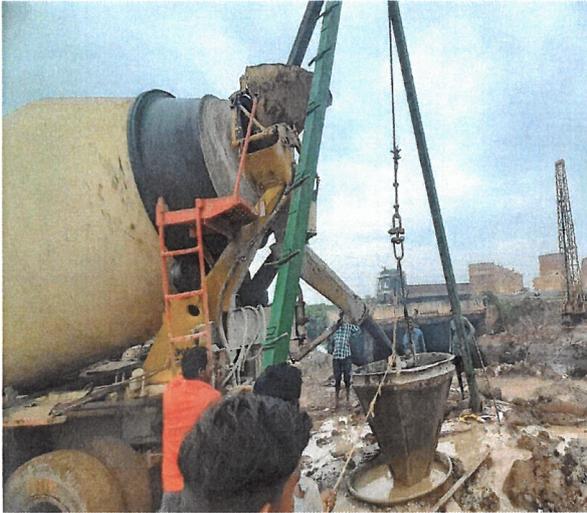
tenders@tpfepl.com – www.tpfepl.com – www.tpf.eu



Upgradation of Port Connectivity NH Configuration existing 2 lane to 4 lane road from Achhampet Junction (NH-216) to Kakinada Anchorage Port Connecting Vakalapudi light house (from Ch. 0.000 to Ch. 13.198) under Bharatmala Pariyojana on EPC mode.							
Structure Details							
S.No.	Location	Type Of Structure	Span Arrangement	Type of Construction	Width of Carrageway and Cross-Sectional Features as per Agreement	Status	Remarks
1	0+500	RCC Box Culvert	1x2.0x2.0	Re-Construction	overall width of all Culverts Equal to Roadway width of Approaches	Completed	
2	1+217	RCC Box Culvert	1x2.0x2.0	New	overall width of all Culverts Equal to Roadway width of Approaches	Completed	
3	2+550	RCC Box Culvert	2x2.0x2.0	Re-Construction	overall width of all Culverts Equal to Roadway width of Approaches	To be commenced	
4	2+570	RCC Box Culvert	1x2.0x2.0	Re-Construction	overall width of all Culverts Equal to Roadway width of Approaches	Work in progress	
5	2+749	HPC	6x0.9 \emptyset	Widening	Existing bridge (12.50m) shall be widened (9.50m) to 22m. [12.50+9.50=22]	To be commenced	
6	3+117	HPC	6x0.9 \emptyset	Widening	Existing bridge (12.50m) shall be widened (9.50m) to 22m. [12.50+9.50=22]	Work in progress	
7	5+036	MNB	1 x 24.0	Re-Construction	2 x [1 x 10.50m Carrageway + 2x0.40 w-beam Crash barrier 2x0.55m Crash Barrier + 1.5m Footpath + 0.55m RCC Railing]	Work in progress	High Level Bridge
8	5+657	RCC Box Culvert	1x2.0x2.0	New	overall width of all Culverts Equal to Roadway width of Approaches	Completed	
9	6+257	RCC Box Culvert	1x2.0x2.0	New	overall width of all Culverts Equal to Roadway width of Approaches	Completed	
10	6+450	RCC Box Culvert	1x2.0x2.0	New	overall width of all Culverts Equal to Roadway width of Approaches	Work in progress	
11	7+450	RCC Box Culvert	1x2.0x2.0	New	overall width of all Culverts Equal to Roadway width of Approaches	Work in progress	
12	8+304	Slab Culvert as per Schedule	1x3.0x3.0	New	overall width of all Culverts Equal to Roadway width of Approaches	To be commenced	
13	8+318	RCC Box Culvert	1x4.0x3.0	Re-Construction	overall width of all Culverts Equal to Roadway width of Approaches	To be commenced	
14	10+562	MNB	2 x 20.0	Re-Construction	2 x [1 x 10.50m Carrageway + 2x0.55m Crash Barrier + 1.5m Footpath + 0.55m RCC Railing]	Work in progress	High Level Bridge
15	11+319	RCC Box Culvert	1x5.0x3.0	Re-Construction	overall width of all Culverts Equal to Roadway width of Approaches	Work in progress	
16	12+840	RCC Box Culvert	1x2.0x2.0	New	overall width of all Culverts Equal to Roadway width of Approaches	To be commenced	Requested by Municipal Corporation, NGT officials



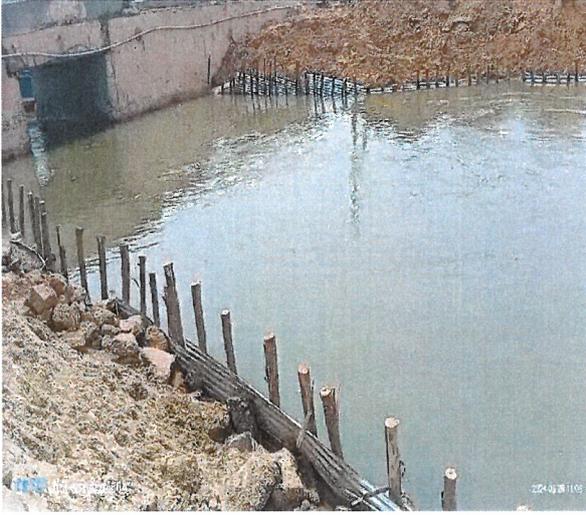
Status of Minor Bridge Photographs



Minor Bridge at Km.5+036: Piling work in progress



Minor Bridge at Km.5+036: Piling work in progress



Minor Bridge at Km.10+562: Plot farm work in progress