CA scheme for Double Open Forest Land to an extent 3.7142 Ha identified in Compt No.40 of Diversion of 1.8571 Ha Forest Land Diverted for Construction of 4 Lane access controlled New Green field Highway Station of NH 365 BG KMM Devarapalli of Length 33.644 from Thallampadu (V) to Somavaram (V) passing through the Velugumatla RF for a length of 309.52 Mtrs. in Compt No. 40 of Khammam Forest Division in favour of Proiect Director, NHAI, Khammam.

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I. INTRODUCTION:

The Project Director, National Highway Authority of India, Khammam has submitted the Forest Proposal for diversion of 1.8571 ha Diversion of 1.8571 Ha Forest Land for Construction of 4 Lane access controlled New Green field Highway Station of NH 365 BG KMM Devarapalli of Length 33.644 from Thallampadu (V) to Somavaram (V) in the part of the Khammam division passing through the Velugumatla RF length 309.52 Mtrs. Width 60 Mts. of 1.8571 Ha. Compt No. 40 of Khammam Forest Division in favour of PD, PIU, NHAI, Khammam. The Velugumatla RF in Notified U/s 15 G.O. Ms.No.745, Forest & Development (Forest-III) Dt.15/12/1977. CA May be raised on Degraded Forest Land twice in extent Forest area being diverted. Hence, double the area (Degraded Forest) is identified in Velugumatla RF block of Khammam range for compensatory a forestation purpose. And user agency has furnished the undertaking to bear the cost of Raising, Maintenance of Plantation including SMC works on Degraded Forest land offered for the purpose as demanded by the Forest Department. Hence, the Forest Divisional Officer, Khammam has identified CA area double the project area i.e. 1.8571 X 2 = 3.7142 Ha. in Velugumatla RF block of Khammam Range for compensatory a forestation purpose. And the user agency has furnished the undertaking to bear the cost of raising, maintenance of plantations including SMC Works on Degraded Forest land offered for the purpose as demanded by the Forest Department. Hence, the Forest Divisional Officer, Khammam has identified double the forest area, i.e. 1.8571 Ha X 2 = 3.7142 Ha in Velugumatla RF Block in Khammam Range for compensatory afforeastation purpose. Accordingly, the Forest Range

Officer, Khamamam have submitted the certificate of Soil Suitability, the details are as follows.

Sl. No.	Range	Beat	Section	Block	Compt. No.	Net area available
1	2	3	4	5	6	7
1	Khammam	Kodumuru	Chintakani	Velugumatla RF	40	1.8571 Ha X 2
					Total :	**3.7142 Ha**

i. The density of vegetation in the proposed area which falls in Velugumatla Forest block is less than 0.1. Density user agency has furnished the undertaking to bear the cost of Raising, Maintenance of Plantation including SMC works on Degraded Forest land offered for the purpose as demanded by the Forest Department.

Accordingly, an Action Plan for raising of Compensatory Afforestation plantations in degraded forest areas of Compt. No. 40 of Velugumatla Reserve Forest of Khammam Range of Khmmmam Division is prepared with an amount of Rs 35.000 lakhs for Raising and 10 years maintenance of plantations with NTSH Species for taking up SMC Works.

1. LOCATION OF THE AREA PROPOSED FOR COMPENSATORY AFFORESTATION IN DEGRADED FOREST AREA

The Compensatory Afforestation Scheme is aimed at improvement of the quality of Forests. With this in mind, degraded Forest areas of Compt. No. 40 of Velugumatla Reserve Forest of for construction of 4 lane access controlled New Greenfield Highway section of NH-365BG Khammam – Deverapally of the length of road passing through the RF is 309.52 Mts with a width of 60 mts from Thallampadu (V) to Somavaram (V). Khammam Range of Khammam Division is proposed for treatment. In general the above Compartments are having misc tree growth of Mangifera Indica, Prosopis Juliflor, Holopteleaintegrefolia, MillettiaPinnata,Terminalia Bellirica, Azadiricta indica and Dirshinam

etc., out of which Terminalia Bellirica is found to be more dominant the same composition is existing in both sides of the road.

2. LEGAL STATUS OF THE PROPOSED CA AREA :

The proposed CA areas in Compt. No. 40 of Velugumatla Reserve Forest of Khammam Range is notified U/s 15 G.O. Ms.No.345, Forest & Development (Forest-III) Dt.15/12/1977 respectively.

The selected areas consists of with degraded plain areas with accessibility to roads and are degraded mainly due to biotic interference and are found suitable for Compensatory Afforestation.

3. SOIL DESCRIPTION AND TERRAIN :

In the proposed area, the soils are eroded and are ranging from red sandy loam with Rocky patches here and there.

4. FLORA AND FAUNA:

In the proposed degraded Forest area the species available apart from the above are Mangifera Indica, Prosopis Juliflor, Holopteleaintegrefolia, MillettiaPinnata, Terminalia Bellirica, Azadiricta indica and Dirshinam etc., out of which Terminalia Bellirica is found to be more dominant the same composition is existing in both sides of the road.

5. TREATMENT MODELS:

It is proposed to treat the Degraded Forest areas under the following Treatment models.

a) ModelI: Protection of Reserve Forests by Permanent Boundary Demarcation and Protection from Fire.

b) Model II: Artificial Regeneration

   i. Raising of plantations in degraded forest areas in SMM Method.

A Total of 3.7142 Ha (1.8571 X 2) identified degraded area proposed for taking up a forestation works.

The above Afforestation and Reforestation works shall be carried out through Departmental execution.

I. Model II; Artificial Regeneration

RAISING OF PLANTATIONS – PLANTING ON PLAINS/DEGRADED FOREST AREAS

To compensate the loss of Valuable forest growth in the reserved forest areas, it is proposed to raise certain plantations in the degraded forest areas.

a) **NON TEAK SECOUNDARY HORDWOOD SPECIES (NTSH):**

It is proposed to raise the above model of plantation under **SMM** through intensive site preparation practices. The operations to be carried out are Survey and demarcation, Clearing the miscellaneous jungle growth, Digging of Staggered contour Trenches and planting at 3 X 3 m espacement in 60 cube pits. All other cultural operations like Weeding's, Soil workings, manuring etc., will be provided for Ten years excluding raising year duly following the PCCF (HoFF), TS, Hyderabad instructions.

II.Administrative Costs (Over Heads)

As the work involved is a massive one to provide 10% of treatment cost towards over heads. Utility payments of Division Office and Range Offices, Stationary and Computer peripherals, Maintenance and repairs, POL charges and Technical support for the Range /Division Office etc.,

6. PROJECT COST :

i. The total financial out lay of the project is

a) Compensatory Afforestation in Degraded Forest Area: **Rs. 35.000 lakhs**

The annual requirement of funds have been worked out on the base cost of 2021-22 FSR with 10% annual escalation for the remaining project period up to 2033-34.

The component wise details in brief are as follows.

Sl. No	Item of Work	Cost in Lakhs
1	Raising of Nurseries including Conversion and Maintenance / Cost of Plants	2.02429
2	Advance Operations	1.62300
3	Raising of Plantations	6.63500
4	1st Year Maintenance of Plantations	1.21300
5	2nd Year to 10th Years Maintenance of Plantations	8.20009
6	**Forest Protection**	
a	Creation of Fire Lines	0.82086
7	**SMC Works**	
a	Construction of PTs	2.77200
b	SCTs	0.91300
8	Technical Support	8.51994
9	Admin Cost	2.33804
	Total ::	**35.05921**
	Or	**35.00000**

The Abstract year wise estimated cost including unit cost data sheets are enclosed herewith.

7. MODE OF EXECUTION :

i. It is proposed to implement the above proposals by the Departmental execution method wherever possible i.e. Digging of SCT Work and other Afforestation works are being carried out in the above said proposed degraded forest area

Forest Range Officer,
Khammam.

Forest Range Officer
KHAMMAM

Forest Divisional Officer
Khammam.