

Proposals for raising Compensatory Afforestation in Degraded Forest areas for construction of 765 KV Double Circuit Power transmission line in Proddatur WL Division of YSR Kadapa District.

1. Object : To raise compensatory afforestation plantation with the funds of POWERGRID Corporation of India Limited in the CA areas in lieu of diversion of 74.486 Ha i.e. 56.764 Ha in Proddatur (WL) Division & 17.722 ha in Nellore Division for construction of 765 KV Double Circuit Power Transmission line from Kadapa to Chilakaluripeta by PSTSL. The details of diversion areas are as follows.

Sl. No.	Range	Beat	Compt. No	Area proposed for diversion in Ha
1	Porumamilla	Tekurpeta (Kavalakuntla Extn. & A RF)	252 & 253	23.162
2	Badvel	Boyanapalli (Ethirajupalli CA Block)	1173	3.178
3	Badvel	Jangamrajupalli (Bunglow bodu locality)	--	2.680
4	Badvel & Onipenta	Jangamrajupalli & Gangayapalli Beat (Kancherlamoram Extn. RF)	265, 266 & 156	27.744
		Total		56.764

2. Project Period : 12 years from the year of starting of the Project (2018 - 19 to 2029 - 30)

3. Location of C.A. land : The compensatory afforestation area (Degraded Forest Area) proposed for raising plantations in Proddatur (WL) Division is as follows.

Sl No.	Range	Name of the Block	Compt No.	Beat	Area proposed for CA in Ha
1	Porumamilla	K. K. Dasaripalli RF	200 & 201	Peddabhavi	20.48
2	Porumamilla	Kavalakuntla RF	245	Tekurpeta	20.88
3	Porumamilla	Kavalakuntla South RF	254	Siddavaram	21.03
4	Porumamilla	Kalasapadu RF	230	Kalasapadu	21.75
5	Porumamilla	Sancherla RF	237	Venkatapuram	20.36
6	Muddanur	Bhanukotamala RF	27	Mangapatnam	30.12
7	Proddatur	Kamalapuram Block - I	73	Kamalapuram	20.31
		TOTAL			154.93

4. Type of the CA land : The proposed CA areas are mostly consists of hard red loamy and sandy loamy soil, inter mixed with small pebbles with morrum in some patches. The depth of the soil is varying from 50 cm to 1 mt. The area is degraded, impoverished and requires effective supplementation like imported soil etc.

5. Vegetation : The compensatory afforestation area falls under Southern Tropical Dry Deciduous Forests and sub type is Dry Mixed Deciduous Forests with density varying 0.1 to 0.3 having forest quality VI with the following species like Hardwickia binata, Chloroxylon swietenia, Anagesiouis latifolia, Boswelia serata, Zyzyphus xylopyrus, Gardenia gummiferra, Zyzyphus oenoplea, Pongamia pinnata, Acacia nilotica, Syzygium cumini, Azadirachta indica, Eucalyptus, Bauhinia purpurea, Turnera ulmifolia, Madhuca longifolia, Zyzyphus harridan, Acasia Sandra, Diospyros chloroxylon, Pterocarpus santalinus etc.

6. Treatment Proposed : **Semi Mechanical Method Planting**

The treatment proposed for raising compensatory afforestation area is under Semi Mechanical Method of Plantation depending upon the type of soil, density of vegetation. Tall plants of size 8"x 12" are proposed for planting in 0.60 mt cube pits to facilitate quick establishment and growth. For loosening the top soil and to facilitate water absorption and good growth ploughing is preferred. Provision for 100% imported soil is made to make up the hard red loamy and sandy loamy soil.

Soil & Moisture Conservation works are to be taken up mainly Continuous Peripheral Trench (CPT), Checkdams, Rock fill dams, etc., in the proposed compensatory afforestation areas. Fencing is proposed for protection from the biotic interference.

Approach road to the inaccessible area of the afforestation block are proposed in the scheme for Mangapatnam Beat of Muddanur Range for easy supervising and moving.

The plantations so raised will be maintained for 11 years including year of raising.

7. Proposed species : Considering the terrain and condition of soil in the proposed area, the following species are proposed, keeping in view of the instructions issued by the Prl. Chief Conservator of Forests, AP. Hyderabad in Rc. No. 4775 / 2003 - F5, Dt : 21-02-2005.

Sl. No.	Species	Type	Species
1	NTFP	Large canopy plants	1) Ficus benghalensis 2) Ficus religiosa 3) Hardwickia binata 4) Azadirachta indica 5) Madhuca latifolia 6) Terminalia tomentosa 7) Dalbergia latifolia 8) Pterocarpus marsupium 9) Soymida febrifuga 10) Emblica officinalis etc

Planting tall plants of suitable species with a height not less than 2.00 Mts are proposed for planting.

8. Agency for funding : Powergrid Corporation of India Limited.
9. Agency for implementation of compensatory afforestation : A. P. Forest Department
10. Cost of the scheme : Rs. 1430.393 Lakhs

NEOW

Divisional Forest Officer
Proddatur (WL) Division.