



### **ABSTRACT**

Mahatma Gandhi National Rural Employment Guarantee Scheme - Avenue Plantation activities in 10,000 Kms at an estimated cost of Rs.81.90 Crore under MGNREGS during the year 2017-18 - Permission accorded - Guidelines approved - Orders - Issued.

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### **RURAL DEVELOPMENT AND PANCHAYAT RAJ (CGS.1) DEPARTMENT**

**G.O.(Ms) No.129**

**Dated: 10.11.2017**

**Read:**

From the Director of Rural Development and Panchayat Raj  
Letters Roc.No.19381/2017/MGNREGS-I-1, dated 26.05.2017  
and 22.08.2017.

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### **ORDER:**

In the letters read above, the Director of Rural Development and Panchayat Raj has stated that "Revised Schedule-I of the National Rural Employment Guarantee Act, 2005 Paragraph 4(1)(I) Category-A: Public Works Relating to Natural Resources Management" provides for avenue plantation as provided hereunder: "(v) Afforestation, tree plantation and horticulture in common and forest lands, road margins, canal bunds, tank foreshores and coastal belts duly providing right to usufruct to the households covered in Paragraph 5". In order to provide shade and shelter for people, birds and animals and to increase green cover in rural areas, it is proposed to take up plantation of fruit bearing trees, fodder-based trees and economically valuable trees on either side of roads belonging to Panchayats and Panchayat Unions during the year 2017-18 under MGNREGS. These plantation, apart from preventing soil erosion, will also increase the revenue resources of the Village Panchayats.

2. The Director of Rural Development and Panchayat Raj has also stated that during the year 2017-18, 20.00 lakh tree saplings will be planted and maintained on either sides of roads belonging to Panchayat, Panchayat Union, and Pradhan Mantri Gram Sadak Yojana roads to an extent of 10,000 Kms at an estimated cost of Rs.81.90 Crore. Saplings required for Avenue Plantation are available in Block Nurseries of all the 31 districts and the plants from Block Nurseries will be utilized in Avenue Plantation. Plantation activities will include activities such as pitting, planting, provision of Tree Guards, etc. and provision for watering for 1 year. 200 Plants will be planted on both sides of the roads



for the length of 1 Km. at an estimated cost of Rs.0.8189 lakh/Km. Hence, the total estimate cost for 10,000 K.M. will be Rs.81.90 Crore.

**Funding Pattern**

<b>Sl. No.</b>	<b>Details</b>	<b>Amount (Rs. in Crore)</b>
1.	Labour Component (pitting, planting, Provision for Maintenance for 1 year including watering, weeding and Manuring)(100% Central Share)	71.70
2.	Material Component (provision of Tree Guards, transportation) <ul style="list-style-type: none"><li>• 75% Central Share: 7.65</li><li>• 25% State Share : 2.55</li></ul>	10.20
<b>TOTAL</b>		<b>81.90</b>

3. Further, the Director of Rural Development and Panchayat Raj has stated that the Rural Schedule of Rate approved in G.O.(Ms) No.45, Rural Development and Panchayat Raj (CGS.1) Department, Dated 03.04.2017 shall be adopted. In case of any revision made in Rural Schedule of Rates in future, the same shall be adopted.

4. The Director of Rural Development and Panchayat Raj has therefore requested the Government to accord permission for undertaking Avenue Plantation on the either sides of roads belonging to Panchayat, Panchayat Union, Pradhan Mantri Gram Sadak Yojana Roads to an extent of 10,000 Kms at an estimated cost of Rs.81.90 Crore under Mahatma Gandhi National Rural Employment Guarantee Scheme, for the year 2017-18 and approve the guidelines therefor.

5. The Government after careful examination of the proposal of the Director of Rural Development and Panchayat Raj accord permission for undertaking Avenue Plantation on the either sides of roads belonging to Panchayat, Panchayat Union, PMGSY Roads to an extent of 10,000 Kms at an estimated cost of Rs.81.90 Crore under Mahatma Gandhi National Rural Employment Guarantee Scheme, for the year 2017-18 under Mahatma Gandhi National Rural Employment Guarantee Scheme and approve the Guidelines therefor annexed to this order.

6. This order is issued with the concurrence of Finance Department vide its U.O.No.46208/RD/2017, dated 26.09.2017.

**(BY ORDER OF THE GOVERNOR)**

**HANS RAJ VERMA,  
ADDITIONAL CHIEF SECRETARY TO  
GOVERNMENT**

To

The Director of Rural Development and Panchayat Raj, Chennai – 15.  
All District Collectors (Except Chennai) (Thro' the Director of Rural

Development and Panchayat Raj, Chennai – 15)  
All Project Directors, District Rural Development Agencies (Thro' the  
Director of Rural Development and Panchayat Raj, Chennai – 15)  
The Accountant General, Chennai – 18.

Copy to:

The Pay and Accounts Office (South), Chennai – 35.  
The Finance (RD) Department, Chennai – 9  
Chief Minister's Office, Secretariat, Chennai-9.  
The Senior Personal to Hon'ble Minister (Municipal Administration & Rural  
Development, Implementation of Special Programme), Chennai – 9.  
The Principal Private Secretary to Additional Chief Secretary to Government,  
Rural Development and Panchayat Raj Department, Chennai – 9.  
The Rural Development and Panchayat Raj (OP.2) Department, Chennai – 9  
The National Informatics Centre, Chennai – 9.  
Spare copy/Stock file.

**//FORWARDED BY ORDER//**

*A. C. S.*  
10/11/17  
**SECTION OFFICER**

*6/11/17*  
10/11/17



## **ANNEXURE**

### **Guidelines for Avenue Plantation**

**[G.O.(Ms).No.129, Rural Development and Panchayat Raj (CGS-1)  
Department, dated 10.11.2017]**

#### **1. Preparation of estimates:**

1. In each block preference should be given for Block Plantation and only in such places where there is no land/site available, Avenue Plantations can be taken up limiting to 1/4<sup>th</sup> of the total plantation proposed.
2. It should be ensured that 1/3<sup>rd</sup> of the plantation is done in SC/ST habitations.
3. Each Village Panchayat can have maximum 2 Avenue Plantation estimates.
4. In case of more number of roads are taken in a Village Panchayat, road wise sub-estimates shall be prepared and clubbed to have a maximum of 2 estimates. One estimate should cover the SC/ST areas.
5. The estimate should be prepared for plantation and watering for 1 year with supplementary estimate for 2 years of maintenance (i.e) for the 2<sup>nd</sup> year and 3<sup>rd</sup> year.
6. Road wise list of PMGSY roads, Panchayat Union Roads and Village Panchayat roads are taken and among these priority is given to PMGSY roads, then Panchayat Union Roads and then Village Panchayat Roads.

#### **2. General Instructions:**

While planning for road side tree plantation, certain restrictions imposed for safety requirement by engineering, traffic system should be followed:

- Trees should be planted at a minimum 0.5 metre beyond the toe of the roadway so that they don't pose / create safety hazard or affect the required sight distance.
- Trees should be planted clear of roadside drains and other drainage structures so that their root system does not interfere with efficient working of the drainage facilities.
- Where there is no sufficient land width available, then the trees could be planted beyond the shoulders keeping in view that the roots do not damage the carriage way and the shoulders.

### **3. Provisions of Sunken Pits for Moisture Conservation:**

- Sunken pits could be dug up in the road side drains wherever feasible to ensure water recharge which will also serve dual purpose of benefitting the plants planted.
- The sunken pits could be dug up in the existing drains with respect to the spacing of plants to a length of 2m and depth of 0.45m keeping the width equal to the existing drain.
- These sunken pits could be included in the estimate as moisture conservation works wherever feasible.
- Saucer pit shall be provided for all the plants.

### **4. Technical Instructions for taking up Avenue Plantation:**

A spacing of 10 m between the plants is to be adopted for Avenue plantation depending on the species. If 10m is adopted as spacing, then the number of plants for 1 Km is 100 on each side, totalling 200 plants on both sides of the road.

- The extent of the road should be measured and where the width is available for plantation alone be taken as the effective length. Sometimes the width may be available for only one side of the road and plantation carried out only on that side. The same has to be specified in the estimate.
- The species suitable to the soil, climate and preference of the villagers/farmers in consultation with the Forest Department should be selected.
- Aligning and marking should be done on the site so that the trees are placed in line with each other.
- The plantation location should be in such a way that,
  1. It should not be placed on belmouth entry of branch roads.
  2. It should not be placed in front of house entry gate, but can be placed on the edge of individual plot.
  3. It should not be placed below the low lying EB line.
- **Tree Guards:** Tree guards are mandatory up to 4ft. height of plants. Any of the following material may be used for as Tree guards for the Avenue Plantation:



Sl. No.	Type of Tree Guard	Durability	Fund Utilisation	Rough cost Estimate
1.	Green Net shade with Bamboo poles at corners (Ideal for the growth of plants)	Upto 1 Year	Material Component under MGNREGS	Rs. 40-50
2.	Empty Cement sacks with supporting Bamboo poles at four corners	6 months only	To be obtained from panchayat union office	Free of Cost
3.	Low cost Bamboo (If available)	Upto 1 Year	Material Component under MGNREGS	Rs.45-50
4.	Any other low cost locally available material	Upto 1 Year	Material Component under MGNREGS	Rate should not exceed Rs.50
5.	Live Thorny fencing densely tied together with required bracings (The jungles already cleared in works taken up in MGNREGS shall be utilised for tree guard)	Upto 1 Year	Labour Component under MGNREGS	2 labourers to provide 10 tree guards per day and they have to be paid as per RSoR

- Land development works such as clearance of thorny bushes, weeds at the site should be taken up only if found necessary by adopting RsoR 2017-18 and this should be personally checked out site by the AE / JE concerned.
- Moisture conservation works such as sunken pits shall be provided wherever feasible at places where the plantation level and drainage level is more or less same so as to maintain moisture in the root zone.
- Depending on the number of plants arrived, the component of the pitting, refilling should be included in the estimate.

- Saucer pit shall be provided for all the plants.
- Weeding and hoeing followed by mulching and manuring operation shall be included in the estimate at the rate of twice per year (as per the schedule of maintenance). The technical advice of the departments concerned shall also be obtained in this regard.
- Organic compost or Vermi compost shall be used in the pits before planting the tree saplings. The manure / compost produced through the SWM / Vermi compost units within the Village Panchayats / Blocks may be utilised for plantation activities of their Village Panchayat free of cost.
- Casualty replacement at the rate of 20% maximum during the 2<sup>nd</sup> year shall be included in the estimate for planting below 1 year old seedlings. The reason for the mortality should be assessed. If the seedlings are raised in Nurseries for one to two years and then planted, the survival rate will be more and the casualty replacement of only 5% maximum should be allowed.

**5. Technical Note should cover the following:**

1	Name of the Work: Providing Road side Tree Plantation under MGNREGS – 2017-18.
2	Name of the Road:
3	Length of the Road:..... Km
4	Effective length available: ..... Km Specify the location: Whether proposed for both the sides/one side: Specify the reach:
5	Soil type:
6	Species selected:
7	Recommended spacing:
8	No. of plants that could be planted: Specify the Reach and No. of plants:
9	Size of the pits recommended:



**6. Items to be covered in the Estimates:**

<b>I</b>	<b>First year</b>	
1	Site preparation by cleaning, cutting bushes, weeds and removal wherever necessary as per the RSoR	Before the onset of monsoon
2	Moisture conservation works such as sunken pits in the drains	
3	Aligning and marking of pits	
4	Pitting	
5	Planting & Refilling	At the onset of monsoon
6	Live thorny tree guard or any other cost effective durable tree guard	
7	Cost of saplings	Free of cost if raised in Nursery under MGNREGS
8	Transportation cost of seedlings	
9	Schedule of Maintenance activity (like watering, weeding, mulching and Manuring is annexed in table	
10	Manure	Organic compost or Vermi-compost shall be used <b>free of cost</b>
11	Weeding, Hoeing followed by Mulching & manuring @ 2 times as per the Schedule of Maintenance	
12	Total cost for I year	
	• Material cost (out of Col. 12)	
	• Labour cost (out of Col. 12)	
<b>II</b>	<b>Supplementary Estimate for Maintenance- Second year</b>	
1	Supplementary estimate as per the Schedule of Maintenance	
<b>III</b>	<b>Supplementary Estimate for Maintenance- Third year</b>	
1	Supplementary estimate as per the Schedule of Maintenance Schedule	
	<b>Grand Total (I year + II Year + III Year)</b>	



### Schedule of Maintenance activities for plantation

Year	Month	Activities
1 <sup>st</sup> year	Jan.	Watering 5 times, Weeding
	Feb.	Watering 8 times, Mulching and Manuring (To be provided by village panchayat)
	March	Watering 9 times
	April	Watering 9 times
	May	Watering 9 times
	June	Watering 9 times
	July	Watering 8 times, Casualty replacement (20% of the total plants).
	August	Watering 4 times, Mulching and Manuring (To be provided by village panchayat), Casualty replacement (20% of the total plants).
	Sept.	Watering 4 times
	Oct.	Watering 2 times
	Nov.	Mulching and Maintenance
	Dec.	Weeding, Watering 1 time
2 <sup>nd</sup> year	Jan.	Watering 5 times, Weeding
	Feb.	Watering 8 times, Mulching and Manuring (To be provided by village panchayat)
	March	Watering 9 times
	April	Watering 9 times
	May	Watering 9 times
	June	Watering 9 times
	July	Watering 8 times, Casualty replacement (10% of the total plants).
	August	Watering 4 times, Casualty replacement (10% of the total plants)
	Sept.	Watering 4 times
	Oct.	Watering 2 times
	Nov.	Mulching and Maintenance
	Dec.	Weeding, Watering 1 time
3 <sup>rd</sup> Year	Jan.	Watering 5 times, Weeding
	Feb.	Watering 8 times, Mulching and Manuring (To be provided by village panchayat)
	March	Watering 9 times

	April	Watering 9 times
	May	Watering 9 times
	June	Watering 9 times
	July	Watering 8 times
	August	Watering 4 times
	Sept.	Watering 4 times
	Oct.	Watering 2 times
	Nov.	Mulching and Maintenance
	Dec.	Weeding, Watering 1 time

**HANS RAJ VERMA,  
ADDITIONAL CHIEF SECRETARY TO  
GOVERNMENT**

**// TRUE COPY //**

*A. C. J.*  
*10/11/17*  
**SECTION OFFICER**

*10/11/17*