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48649 **ABSTRACT**

Announcement made by Hon'ble Minister (Municipal Administration, Rural Development and Implementation of Special Programme) on 5.08.2016 - Mahatma Gandhi National Rural Employment Guarantee Scheme - Construction of Vermi - Compost sheds and it's operation - Permitted Guidelines approved - Orders - Issued.

Rural Development and Panchayat Raj (CGS.1) Department

G.O. (Ms) No.94

Dated : 8.08.2016

Read :

Director of Rural Development and Panchayat Raj Department Letter No.24365/2016/MGNREGS I-2, dated 26.04.2016.

ORDER:

Hon'ble Minister (Municipal Administration, Rural Development and Implementation of Special Programme) has made following announcement on 5.08.2016, while moving Demand No.42 :

In order to supply Bio-fertilizer to the tree saplings planted and nurseries raised under Massive Tree Planting Programme and to saplings planted on the road sides in rural areas by converging various schemes in an effort to make Tamil Nadu green, and to enhance the revenue of the Village Panchayats by marketing the surplus bio-fertilizer, based on the orders of Hon'ble Chief Minister of Tamil Nadu, 385 Vermi compost units will be established in 385 Panchayat Unions at an allotment of Rs. 3,46,60,000/- with the unit cost of Rs. 90,000/-.

2. The Director of Rural Development and Panchayat Raj in the letter read above, has stated that during the Empowered Committee meeting of the Government of India for approval of Labour Budget, it has been decided to take up 385 Vermi-Compost units / NADEP pits for the year 2016-17 under MGNREGS. The revised Schedule I of the Mahatma Gandhi National Rural Employment Guarantee Act Para 4(III)(i) permits the works for promoting agricultural productivity by creating durable infrastructure required for bio-fertilizers and post harvest facilities including pucca storage facilities for agricultural produce. Vermi-Composting is a method of producing bio-fertilizers.

Composting of bio-degradable wastes has been taken up in 2000 Village Panchayats as part of Phase-I of Solid Waste Management activities. This bio-compost will function as source material for Vermi-Composting. Further, a lot of plantation activities have been taken up under Mahatma Gandhi National Rural Employment Guarantee Scheme for which, application of manures/ bio-fertilizers has become a need for the healthy growth of plants. It has therefore been decided to construct Vermi-Compost sheds and operation, one in each Block.

3. The Director of Rural Development and Panchayat Raj has also stated that the instructions regarding selection of Village Panchayats & site, construction of shed, methodology for production of Vermi-cast and Vermi-Compost along with the details of components involved in Vermi-Composting, persons to be engaged for the work, the marketing methodology for the excess compost produced and the monitoring mechanism are given in the guidelines. The tentative target for Vermi-Compost district-wise has already been communicated to the Districts. Further, in the Minutes of the Empowered Committee meeting, it has been instructed that the district-wise targets for these works have to be entered online in MIS latest by 31.3.2016 to ensure fund release and the same has already been done.

4. The Director of Rural Development and Panchayat Raj has therefore requested the Government to issue orders on the approval of guidelines for the construction of Vermi-Compost sheds and its operation under Mahatma Gandhi National Rural Employment Guarantee Scheme.

5. The Government, after careful examination of the proposal of the Director of Rural Development and Panchayat Raj, accord permission for the construction of 385 Vermi-Compost units at the rate of one per block at a unit cost of Rs.90,000/- amounting to Rs. 3,46,60,000/- as total expenditure and its operation under Mahatma Gandhi National Rural Employment Guarantee Scheme and approve the Guidelines therefor annexed to this order.

6. This order issues with the concurrence of Finance Department vide its U.O. No.146/S(E)/RD/2016, Dated 16.06.2016.

(BY ORDER OF THE GOVERNOR)

HANS RAJ VERMA
PRINCIPAL SECRETARY TO GOVERNMENT

To
The Director of Rural Development and Panchayat Raj, Chennai-15

All District Collectors (except Chennai District)

(through Director of Rural Development and Panchayat Raj, Chennai-15)

All Project Directors, District Rural Development Agencies (through DRD & PR, Chennai-15)

Copy to:

The Secretary,

Ministry of Rural Development, Government of India,
Krishi Bhavan, New Delhi.

The Accountant General, Chennai-18

The Pay and Accounts Officer (South), Chennai-35

Finance (RD/BG.I/BGII) Department, Chennai-9

Principal Private Secretary to Principal Secretary to Government,
Rural Development and Panchayat Raj Department, Chennai-9

National Informatics Centre, Secretariat, Chennai-9

SF/SC

//Forwarded by order//

K. Saravanan

SECTION OFFICER

Annexure - I

Guidelines for construction of Vermi-Compost sheds and its Operation

1. Introduction

The revised Schedule I and II of the MGNREGA Act Para 4(III)(i) permits works for promoting agricultural productivity as noted below:

- 1) *Works for **promoting agricultural productivity by creating durable infrastructure required for bio-fertilizers** and post harvest facilities including pucca storage facilities for agricultural produce;*

During the Empowered Committee meeting to finalise the Labour Budget for 2016-17, it has been informed that Vermi compost unit/NADEP pits can be taken up under MGNREGS.

Vermi-composting is a method for producing bio-fertilizers. Composting of bio-degradable wastes has been taken up in 2000 Village Panchayats as part of Phase-I of Solid Waste Management activities. This bio-compost will function as source material for Vermi-composting. Further, a lot of plantation activities have been taken up under MGNREGS for which, application of manures/bio-fertilizers has become a need for the healthy growth of plants. It has therefore been decided to construct Vermi-compost sheds and operation, one in each Block.

The guidelines for the construction and operation of Vermi-compost units are provided below:

2. Selection of Village Panchayat:

- One Village Panchayat shall be selected in each Block.
- The selected Panchayat should compulsorily be one of the 2000 Phase-I Village Panchayats in which Solid Waste Management activities are already undertaken. In case in any of the blocks, there are no Village Panchayats selected in the first phase for Solid Waste management, in those blocks, Village Panchayats selected for SWM in the second phase shall be selected.
- The Village Panchayat in which the Solid Waste management activity is effectively taking place and where bio degradable wastes are collected in large quantities shall be preferred for establishing Vermi-compost units.

3. Selection of Site:

- Vermi-compost unit can be established in any place with shade, high humidity and cool environment. A Place adjacent to the SWM compost pits is preferred for setting up such units. A thatched roof may be provided to protect the process from direct sunlight and rain.
- Water availability is essential for Vermi-composting and hence water supply should be ensured for the shed every day. If not already available,

extension of pipeline should be provided from the available source. The vermi-beds are required to retain a moisture content of 40% to 60%.

Note:

- *Care should be taken that the site should not be located in an area which gets submerged during the rainy season.*

4. Construction of Shed:

- A shed comprising of around 270 sqft (12 ft x 22 ft) is considered adequate as Vermi-compost shed.
- Tanks may be constructed with a height of 2½ feet and a breadth of 3 feet. The length may be fixed to any level depending upon the size of the room and the volume of material generated.
- The bottom of the tank should have a slope to drain the excess water from Vermi-compost unit.
- Thatched roof is preferable since the temperature of 20° – 30° Celsius should be maintained.
- Provision of Green net for shade and protection from birds all-round the shed should also be provided.

DRD & PR is authorised to communicate the Type Design and model estimates for the construction of Vermi-compost Shed.

5. Methodology for preparation of Vermi-compost:

- The segregated bio-degradable wastes should be shredded by using Garbage shredding machine (or) pre-digested with cowdung for 20 to 30 days before incorporating into the vermibed for composting.
- Hence, it is better to use the pre-digested compost available in our compost pits for Vermi-composting to produce high quality manure rich in humus and nutrients
- **Vermi compost pits may be made as per the requirement of the Type Design:**

The following are the steps to be undertaken:

- Add gravel or sand as the base to a depth of 15 cm.
- Spread the pre digested compost to a height of 45cm and over it spread a layer of cowdung to a height of about 5 cms.
- Add earthworms @ (500 gms for 1m length, 1m breadth and .5m height i.e. 0.5 cum)
- Watering the vermi-bed - Daily watering is not required for vermi-bed. However, care should be taken that 60% moisture be maintained throughout the period. If necessity arises, water should be sprinkled over the bed rather than pouring the water. Watering should be stopped before the harvest of Vermi-compost.
- The process takes about 45-60 days
- Earthworms can be collected after Vermi-compost production during the Sieving process. The partially composted material will be again put into Vermi-compost bed.
- Vermi-compost can be stored in a cool shaded place to maintain minimum 40% moisture and allow the beneficial microorganisms to grow. Direct Sunlight should not fall over the composted material. It

is advocated that the harvested composted material is openly stored rather than packed in sacks. Packing can be done at the time of selling.

6. Fund Requirement:

Sl. No	Description	Labour Component	Material Component	Total
1	Cost of shed (Thatched roof)	Rs.10,500	Rs.64,500	Rs.75,000
2	Cost of Earthworms- average 12 kg @ Rs.250/kg		Rs.3000	Rs. 3000
3	Cost of materials such as cowdung, Vermi-compost bed materials and all other materials etc., (@ Rs.1500 on an average of 8 times per year)		Rs.12,000	Rs.12,000
Total		Rs.10,500	Rs.79500	Rs.90,000

The construction and operation of one Vermi-compost unit will cost Rs.90,000/-

Thus, the total fund requirement for 385 Vermi-compost units at the rate of Rs.90,000/- will be Rs.3,46, 60,000/- and the same will be borne under the Mahatma Gandhi National Rural Employment Guarantee Scheme Funds.

7. Manpower requirement:

Thooimal Kavalars used for SWM activities should be utilised for the work of Vermi-composting and the Work site supervisor in charge of SWM activities should supervise it. The Thooimal Kavalars shall undertake the work of preparation of vermi-bed, watering, sieving and packing etc., They should be properly trained by utilising the money available under IEC component (6% of admin) of MGNREGS.

The guidelines provided for the functioning of Thooimai Kavalars has to be read in conjunction with these guidelines wherever required.

8. Role of Village Panchayat:

The ownership of the Vermi-compost unit will be vested with the Village Panchayat. The Village Panchayat should identify a suitable site nearer to the site where Solid Waste Management activity is taking place. The manure /compost produced through the Vermi-compost unit may be utilised for plantation activities of their Village Panchayat at free of cost.

9. Marketing:

The District Supply & Marketing Society (DSMS) functioning under Tamil Nadu State Rural Livelihood Mission (TNSRLM) should procure the excess compost over and above the need of the Village Panchayat for planting at the rate not

exceeding Rs.8/- per Kg and the income may be deposited in the Village Panchayat account. The DSMS may sell the Vermi-compost to other Village Panchayats where tree plantation is taken up with a profit margin to be fixed by DSMS. They may also sell the Vermi-compost to other farmers and general public.

10. Execution of work

- i. The Village Panchayat shall be the implementing agency.
- ii. Nominal Muster Roll will be issued by the President of the Village Panchayat.
- iii. Measurement of works for the purpose of weekly payment of wages to workers shall be done by the Overseer of Rural Development and Panchayat Raj Department.
- iv. Processing of bills and issue of Fund Release Order shall be done by the Block Development Officer (Village Panchayat) through e-FMS.

11. Monitoring:

The Project Director, DRDA and Project Officer, Mahalir Thittam shall be vested with the responsibility of monitoring the works personally. The Project Director, DRDA should convene meeting of stakeholders once in a month for proper implementation and for co-ordination with DSMS for the effective implementation of the scheme.

12. Online reporting:

All works taken up should be entered in MIS (www.nrega.nic.in) and properly monitored as is being done for all other MGNREGS Works.

Apart from this, an online reporting regarding the compost produced and distributed/marketed shall be done through tnrd website (www.tnrd.gov.in).

13. Audit:

All the expenditures incurred towards Vermi-compost works undertaken under Mahatma Gandhi National Rural Employment Guarantee Scheme shall be brought under Social Audit and this shall be done through Social Audit Society of Tamil Nadu.

14. Documentation:

Proper documentation should be done pertaining to the Vermi-compost works undertaken under Mahatma Gandhi National Rural Employment Guarantee Scheme. Photographs of the site before undertaking the work, during execution and after execution should be taken and properly documented under the Assets Register maintained for Mahatma Gandhi National Rural Employment Guarantee Scheme in every Village Panchayat.

The Director, Rural Development and Panchayat Raj is empowered to modify these guidelines, whenever necessary, in consultation with the Secretary, Rural Development and Panchayat Raj Department.

HANS RAJ VERMA
PRINCIPAL SECRETARY TO GOVERNMENT

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K. Sasovaman
SECTION OFFICER

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Annexure II

MGNREGS - LB 2016 -17 - Target for Vermi-compost

Sl. No	Name of the District	Target for 2016-17
1	ARIYALUR	6
2	COIMBATORE	12
3	CUDDALORE	13
4	DHARMAPURI	8
5	DINDIGUL	14
6	ERODE	14
7	KANCHIPURAM	13
8	KANNIYAKUMARI	9
9	KARUR	8
10	KRISHNAGIRI	10
11	MADURAI	13
12	NAGAPATTINAM	11
13	NAMAKKAL	15
14	PERAMBALUR	4
15	PUDUKKOTTAI	13
16	RAMANATHAPURAM	11
17	SALEM	20
18	SIVAGANGAI	12
19	THANJAVUR	14
20	THE NILGIRIS	4
21	THENI	8
22	THOOTHUKKUDI	12
23	TIRUCHIRAPPALLI	14
24	TIRUNELVELI	19
25	TIRUPPUR	13
26	TIRUVALLUR	14
27	TIRUVANNAMALAI	18
28	TIRUVARUR	10
29	VELLORE	20
30	VILLUPURAM	22
31	VIRUDHUNAGAR	11
Total		385

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PRINCIPAL SECRETARY TO GOVERNMENT

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K. Saravanan
SECTION OFFICER

