



ABSTRACT

Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) - Announcement made by Hon'ble Minister for Municipal Administration, Rural Development and Implementation of Special Programme on the floor of the Legislative Assembly on 21.06.2017 - Execution of Stone bunding activity under land development activity in the hilly and sloppy area at a total cost of Rs.13.06 crore under MGNREGS for the year 2017-18 – Permission accorded - Guidelines approved - Orders issued

RURAL DEVELOPMENT AND PANCHAYAT RAJ (CGS.1) DEPARTMENT

G.O.(Ms).No.25

Dated: 21.02.2018

Read:

1. Announcement of Hon'ble Minister for Municipal Administration, Rural Development and Implementation of Special Programme on the floor of the Legislative Assembly on 21.06.2017.
2. From the Director of Rural Development and Panchayat Raj, Letter Roc.No.21017/2017/ MGNREGS-I-3, dated 28.11.2017.

ORDER:

The Hon'ble Minister for Municipal Administration, Rural Development and Panchayat Raj and Implementation of Special programme has made the following announcement on the floor of the Tamil Nadu Legislative Assembly on 21.06.2017:

“மாண்புமிகு இதயதெய்வம் புரட்சித் தலைவி அம்மா அவர்களின் ஆசியுடன், மாண்புமிகு முதலமைச்சர் அவர்களின் ஆணைப்படி, மலைப்பாங்கான மற்றும் சாய்வான நிலப் பகுதிகளில் உள்ள தாழ்த்தப்பட்ட, பழங்குடியினர் மற்றும் சிறு, குறு விவசாயிகளுடைய நிலங்களில் மண் அரிப்பை தடுப்பதற்காகவும், நிலத்தடி நீர் மட்டத்தை அதிகரிக்கவும், மண் வள பாதுகாப்பினை உறுதி செய்திடவும், 250 கிலோ மீட்டர் நீளத்திற்கு, கல் வரப்புகள், 2017-18 ஆம் ஆண்டில் 6 கோடி ரூபாய் மதிப்பீட்டில் அமைக்கப்படும்”.

2. In the letter 2nd read above, the Director of Rural Development and Panchayat Raj has stated that Paragraph 4(I), (II) category – B (iii) of Schedule-I of the MGNREGA, permits taking up of fallow or waste lands for cultivation and the individual works relating to Natural Resource Management. In the Labour Budget 2017-18, Stone bunding activity is permitted under land development activity in the hilly and slope areas, in order to increase local resilience to the climate change and conservation of soil and water.

3. Followed by the above announcement the Director of Rural Development and Panchayat Raj has conducted Time and Motion study in hilly regions of 5 districts and sent proposal for fixing Rural Schedule of Rates (RSoR) for Stone bunding activity as stone bunding is a new activity permitted under MGNREGS during the year 2017-18. Subsequently in G.O.(Ms).No.152, Rural Development and Panchayat Raj (CGS-1) Department, dated 28.12.2017 the Government have approved the rate for the

construction of stone bund in the Rural Schedule of Rates (RSoR) for the year 2017-18 as an additional item of work, under Mahatma Gandhi National Rural Employment Guarantee Scheme.

4. The Director of Rural Development and Panchayat Raj has therefore requested permission for execution of Stone bunding activity for a length of 250 k.m. under land development activity in the hilly and sloppy area at a total cost of Rs.13.06 crore under MGNREGS, 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, hereby accord permission for execution of Stone bunding activity for a length of 250 k.m. under land development activity in the hilly and sloppy area at a total cost of Rs.13.06 crore under Mahatma Gandhi National Rural Employment Guarantee Scheme for the year 2017-18 and approve the guidelines annexed to this order, subject to the condition that in the first phase contiguous group of private lands of reasonable extent say 30-50 acres / hectares to be taken and cover under the scheme. Based on experience, this could be reviewed and periodic inspection be done by higher level officials, on random sampling basis. If 'ghost' works are detected, deterrant action should be ensured.

6. This order is issued with the concurrence of Finance Department vide its U.O.No.2620/RD/2018, dated 05.02.2018.

(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//

SECTION OFFICER

21/2/18

ANNEXURE

GUIDELINES FOR THE CONSTRUCTION OF STONE BUND

(G.O.Ms) No.25, RURAL DEVELOPMENT AND PANCHAYAT RAJ (CGS-1)
DEPARTMENT, DATED 21.02.2018.

Introduction

The bund made up of stones along the contour line or boundary of individual field is known as stone bunding. They are constructed along a contour in order to slow down the water flowing down the slope, allowing rainwater to seep into the soil and spread more evenly over the land and to control erosion.

In some areas the land may be filled with stone boulders and unfit for cultivation. These lands shall be taken for land development work, under MGNREGS. The stone available in the lands has to be picked up and collected and stacked along the bund and thereby forming stone bunding. These stone bunds will ultimately stop the run off water and thereby increase the soil moisture. Thus the land developed shall be utilized for cultivation of agriculture / Horticulture plantations.

Contour stone bunds protect the land from soil erosion during heavy rain also improve rainwater harvesting, retention and infiltration of water into the soil thereby increase the amount of water available to plants.

This method helps to control the erosion of drainage basins and allows water to seep into the soil, provide better crop yields and raise the water table and thereby provide better drinking water. Combined with various agricultural production techniques, stone bund increases production while preserving and improving soil quality. Measurement of crop yields shows an increase of 40% to 70% in agricultural production. Thus the dry-stone bunds, which are built along contour lines or boundary of individual field helps to build up soil level and slow runoff.

Objective

The construction of stone bund is taken up under Land development activities under MGNREGS to increase cultivable land for improvement of plantation activities and water harvesting due to the following reasons,

- The stone bund slows down water runoff, which helps with building-up a layer of fine soil and manure particles, rich in nutrients.
- Contour stone bunds protect the land from soil erosion during heavy rain in years with high rainfall.
- In drought years, it improves rainwater harvesting, retention and infiltration into the soil, increasing the amount of water available to plants and guaranteeing the harvest.
- If a good vegetation cover is developed on the stone bunds, they also lower soil temperature, provide protection against wind erosion and help to conserve biodiversity.
- Crops in plots with stones bunds could yield two to three times more than crops in control plots.

Selection of land

The construction of stone bund is a simple technique for developing waste lands and convert them into land suitable for agriculture. The construction of stone bunding can be done by employing unskilled labourers under MGNREGS. The lands with

abundance of stones of more than 40 mm in size are hindrance for agriculture and horticulture plantation activities. Therefore these types of lands are suitable for formation of the stone bunds.

Eligibility

1. The individual farmers land / public land shall be selected.
2. The small / medium / marginal / SC / ST farmers.
3. Job card holder under Mahatma Gandhi National Rural Employment Guarantee Scheme.
4. The site selected should be barren land with abundant boulders.
5. The farmers who possess less than 5 acres.
6. Hilly Terrain are best suited for stone bunding.
7. The site should be of gravelly soil to facilitate the increase in ground water and the eligible beneficiaries and the beneficiary name shall be approved in the gram sabha.

Construction Procedure

1. The MGNREGS labourers shall be engaged for this type of works.
2. The area selected shall be dug up by using crow bar upto depth of 0.30m.
3. The stones available from size 40mm and above in the dug up land shall be picked up, collected and dumped along the bund/boundary of the land.
4. The stones collected shall be formed in a trapezoidal section along the bund or boundary of land. If the available stones are more, then intermediate bund shall also be constructed in the field.
5. Thus the land free from stones by the above process may be used for cultivation and with the stones removed, a bund shall be constructed along the bund or boundary of land to harvest the rain /surface water.
6. No stones shall be procured for forming stone bund, and no material cost will be allowed under MGNREGS for this item of work.

Institutional Arrangement and Monitoring Mechanism

- This work will be executed using MGNREGA labour.
- The labour payment will be made on weekly basis using NMR.
- The Rural Schedule of Rates approved by the Government for Stone Bunding shall be adopted for the preparation of estimates.
- Photographs shall be taken before execution, during execution and after completion of work.
- Citizen Information Board shall be kept at the work site in of size 4X3 feet for common works at a cost of Rs.4500/ board with all necessary information as per the framework given by the GOI vide NO: K11023/1/1/2017 – MGNREGSA (IV), MORD, Dt 07.04.2017. The cost of the information board shall be included in the estimate itself.
- Geo tagging of the assets shall be done within one month from the date of completion of the work.

- All the works should have MGNREGS Work File (Checklist /Contents) as per the instructions of GoI, vide ref No. J-11017/6/2016 – MGNREGA- VII, MORD, Dated 21.12.2016.

The rate for stone bunding is arrived by conducting a Time and Motion study in 5 Districts. From the reports received from the Districts, the average out turn / person / day for earthwork is 0.684 Cum, collection of Stone is 0.182 Cum and for the bund formation is 0.40m.

The stone bunding is 100% labour component. The tentative estimate cost for 1 Acre is Rs. 3,70,000/-

For 1 Acre the quantity of Earthwork = 1214.10 Cum

The quantity of earthwork to be done to form 0.40m length of bund = 0.684 Cum

The length of bund formed by doing earthwork in 1 Acre area of land = $(0.4/0.684) \times 1214.10$
= 710 m = 0.71 Km

The land required for achieving 250Km length of stone bund = $250/0.71 = 352.11$
= 353 Acre

The cost of Earthwork in 353 Acre of lands to form 250Km length stone bunding = Rs.3.70 Lakhs X 353
= Rs.1306.10 Lakhs

Funding Pattern for 250km (353 Acre) Stone Bunding

Sl. No	Details	Amount (Rs.in Crore)
1.	Labour Component (100% Central Share)	13.061
2.	Material Component	0
TOTAL		13.061

HANS RAJ VERMA
ADDITIONAL CHIEF SECRETARY TO
GOVERNMENT

// TRUE COPY //

A. C.
21/12/18
SECTION OFFICER

Sharma
21/12/18