



ABSTRACT

Schemes – State Scheme – Chief Minister's Solar Powered Green House Scheme (CMSPGHS) – Implementation of the Scheme for the year 2016-2017 – Construction of 20,000 Solar Powered Green Houses - Sanction and release of funds – Guidelines prescribed – Orders – Issued.

Rural Development and Panchayat Raj (SGS-1) Department

G.O (Ms) No. 24

Dated:24.02.2017

Read:

- 1 G.O. (Ms.) No.46, Rural Development and Panchayat Raj (SGS1) Department, Dated 17.08.2011.
- 2 G.O. (Ms.) No.47, Rural Development and Panchayat Raj (SGS1) Department, Dated 15.06.2012.
- 3 G.O. (Ms.) No.98, Rural Development and Panchayat Raj (SGS1) Department, Dated 31.07.2013.
- 4 G.O.(Ms) No. 74, Rural Development and Panchayat Raj (SGS1) Department dated 25.6.2014.
- 5 G.O.(Ms) No. 64, Rural Development and Panchayat Raj (SGS1) Department dated 24.04.2015.
- 6 From the Director of Rural Development and Panchayat Raj, Letter No.82240 / 2014/RHS 1-1, dated 08.12.2016

ORDER:

In the Government order first read above, orders were issued for the construction of 3 lakh houses for a period of 5 years at the rate of 60,000 houses per year from 2011-2012 to 2015-2016 under the Chief Minister's Solar Powered Green House Scheme (CMSPGHS) and detailed Guidelines were also issued for the implementation of the Scheme. Subsequently, in the Government Orders second, Third, fourth and fifth read above, orders were issued for the implementation of the CMSPGHS for the years 2012-2013, 2013-14, 2014-2015 and 2015-2016 respectively.

2) In the letter sixth read above, the Director of Rural Development and Panchayat Raj has sent a proposal and pointed out that the allotment of houses has been reduced from 60,000 to 20,000 houses during 2016-17. On an average each village panchayat shall get less than 2 houses only. It will be difficult for any external agency to travel to far off villages, habitations to identify and install the Solar Home Lighting System. As such, the Rural Development and Panchayat Raj department would be in a better position to install the Solar Lighting System. Hence, he has proposed to procure and install LED Solar Home Lighting System through RD&PR Department with the specifications followed by TEDA during 2015-16 for speedy execution, better monitoring, repair and replacement of materials.

3. The Director of Rural Development and Panchayat Raj has sent the revised guidelines for the implementation of Chief Minister's Solar Powered Green House Scheme for the year 2016-17 duly incorporating revised strategy on the installation of LED Solar Powered Home Lighting System. He has also requested the orders of the Government for the construction of 20,000 houses under Chief Minister's Solar Powered Green House Scheme for the year 2016-17 at a cost of Rs.420 crores along with the Guidelines.

4. After detailed examination of the proposal of the Director of Rural Development and Panchayat Raj, the Government issue following orders:

- a) Permission is accorded for the construction of 20,000 houses under Chief Minister's Solar Powered Green House Scheme during 2016-17 with the unit cost of Rs. 2.10 lakh.
- b) Sanction is accorded for the release of Rs. 210 Crore from RBE for the year 2016-17 i.e., 50% of the total cost of Rs. 420 Crore towards the construction of 20,000 houses under Chief Minister's Solar Powered Green House Scheme for the year 2016-17.
- c) In order to ensure that there is no delay in the implementation of Chief Minister's Solar Powered Green House Scheme, permission is accorded to Rural Development and Panchayat Raj Department instead of Tamil Nadu Energy Development Agency (TEDA) to procure and install Solar Power Lighting System in the houses constructed under Chief Minister's Solar Powered Green House Scheme as per the prescribed guidelines, duly following the modalities laid down and the tender procedures, as per rules in force.
- d) Guidelines for the implementation of Chief Minister's Solar Powered Green House Scheme for the year 2016-17 is approved as annexed to this order.

5. The expenditure sanctioned in para 4 (b) above shall be debited to the following Heads of Account :

2216 Housing - 03 Rural Housing 789 Special Component Plan for Scheduled Castes- SCHEMES IN THE TWELFTH FIVE YEAR PLAN – II State Plan – JD Solar Powered Green House Scheme- 09 Grants –in-Aid-02 Grants for Creation of Capital Assets.

(DPC 2216 03 789 JD 0928)

Rs. 60,90,00,000/-

2216 Housing - 03 Rural Housing 796 Tribal Area Sub-Plan - SCHEMES IN THE TWELFTH FIVE YEAR PLAN – II State Plan – JC Solar Powered Green House Scheme - 09 Grants – in-Aid-02 Grants for Creation of Capital Assets.

(DPC 2216 03 796 JC 0925)

Rs. 2,10,00,000/-

2216 Housing - 03 Rural Housing -800 Other Expenditure -
SCHEMES IN THE TWELFTH FIVE YEAR PLAN - II
State Plan - JG Solar Powered Green House Scheme - 09
Grants - in - Aid - 02 Grants for Creation of Capital Assets.

(DPC 2216 03 800 JG 0926)

Rs. 147,00,00,000/-

Total

Rs. 210,00,00,000/-

6) The Director of Rural Development and Panchayat Raj is authorized to draw and disburse the amount sanctioned in para 4 (b) above.

7) This order issues with the concurrence of Finance Department vide it's U.O.No.,13/RD/2017, dated: 24.02.2017

(BY ORDER OF THE GOVERNOR)

**HANS RAJ VERMA,
PRINCIPAL SECRETARY TO GOVERNMENT**

To

The Secretary to Government, Energy Department, Chennai-9.

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

The Chairman and Managing Director, Tamil Nadu Energy
Development Agency, Chennai-6.

All District Collectors (except Chennai)

All Project Directors, District Rural Development Agencies.

(through Director of Rural Development and Panchayat Raj)

The Accountant General, Chennai - 6/18/35.

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

Copy to

Hon'ble Chief Minister's office, Chennai - 9.

The Special Personal Assistant to Hon'ble Minister, (MA, RD & Impn. Spl. Prog),
Chennai-9.

Finance (RD & PR/BG I /BG II) Department, Chennai-9.

National Informatics Centre, Chennai-9.

// FORWARDED BY ORDER //

T. V. Verma
SECTION OFFICER



G.O. (Ms) No. 24, Rural Development and Panchayat Raj (SGS-1)
Department, dated: 24.02.2017

Annexure

Guidelines for Implementation of Chief Minister's Solar Powered
Green House Scheme (CMSPGHS) - 2016-2017

1. Introduction:

The Chief Minister's Solar Powered Green House Scheme (CMSPGHS) is a special initiative of the Government of Tamil Nadu. This scheme has been designed to address the housing needs of the rural poor as well as to promote green energy in rural areas. Accordingly, the Government had launched the 'Solar Powered Green House Scheme' during the year 2011-12 for the benefit of the poor in the rural areas and proposed to construct 3 lakh houses measuring about 300 square feet with Solar Powered Home Lighting system over a period of 5 years at the rate of 60,000 houses per year. The unit cost which was Rs.1.80 lakhs per house was increased during the year 2013-14 to Rs.2.10 lakh which includes Rs.1.80 lakh for construction and Rs.30,000/- for Solar Powered Home Lighting System. Three lakhs Green Houses have been constructed at an estimate cost of Rs.5940 crore from the years 2011-12 to 2015-16.

Nowhere else in the country such a free housing scheme for the construction of houses with an area of 300 sq.ft with solar powered lighting is implemented. Since the scheme is predominantly beneficiary oriented and the unit cost provided under the scheme is higher than all other housing schemes, it is highly popular among the people of Tamil Nadu and hence the scheme is proposed to be extended for another five years. Hence, for the benefit of the poor in rural areas, another 1 lakh Solar Powered Green houses with an unit cost of Rs. 2.10 lakh (Rs.1.80 lakh for house construction and Rs.30,000/- for Solar Powered Home Lighting System) will be constructed spread over the period of next five years with the construction of 20,000 houses every year commencing from the year 2016-17.

2. Salient features of the Scheme:

- (i) The poorest among the poor people living in rural areas are eligible to be beneficiaries of the CMSPGHS.

- (ii) The supply, installation and commissioning of solar panels and lights are to be undertaken by Project Director, District Rural Development Agencies of the Districts concerned by following established procedures. The Director, Rural Development & Panchayat Raj Department is eligible to issue necessary executive instructions regarding the installation of solar lights in consultation with the Secretary, Rural Development & Panchayat Raj.
- (iii) Each house shall be built with an area of 300 square feet at an unit cost of Rs.2.10 lakh fully funded by the State Government.
- (iv) Each house shall consist of a living room, bed room, kitchen, toilet and verandah apart from the provision for harvesting rain water.
- (v) Each house is provided with 5 solar powered Light Emitting Diode (LED), one each in bed room, living room, kitchen, toilet and verandah. Each beneficiary is given the option to have an electric connection powered by TNEB, which will be metered.
- (vi) The unit cost is Rs.2.10 lakh per house. Out of this, Rs.1.80 lakh shall be allotted for construction and the amount required for Solar Powered Lights shall be released by DRD & PR based on requirement.
- (vii) Both the construction of houses and installation of solar lights shall be taken up by the Rural Development and Panchayat Raj Department.
- (viii) The Green Houses shall be constructed either in situ (replacing his/her existing dwelling structure) or on the land owned by the beneficiary elsewhere in the Village Panchayat. No land acquisition is envisaged under this scheme. **People with pattas for their house sites are only eligible under this scheme.**

3. Type design and unit cost:

- (i) The exclusive type design already developed for this Scheme shall be followed. The construction of houses should not exceed the permissible limit of 300 sq.ft.
- (ii) To ensure uniformity in the design, no change of type design is normally permitted. However, changes in type design, such as shifting of kitchen room or bedroom to another direction, etc., shall be permitted without altering the total plinth area of 300 sq.ft.

- (iii) The logo for this scheme printed on ceramic tiles shall be affixed visibly on all the houses.
- (iv) The name of the scheme, beneficiary's name and year of construction shall be painted prominently on each completed house.

4. Convergence with MGNREGS and Swachh Bharat Mission (Gramin)

- (i) In addition to the unit cost of Rs.2.10 lakhs as a convergence measure, each beneficiary shall be paid the notified wage rate under MGNREGS towards utilisation of 90 Person days for the construction of the house as per the provisions in G.O (MS) No.48, RD & PR dept., dated 04.04.2016.
- (ii) Further, a sum of Rs.12,000/- shall be provided to the beneficiary for construction of Individual House Hold Latrine (IHHL) in convergence with Swachh Bharat Mission (Gramin) or Mahatma Gandhi National Rural Employment Guarantee Scheme as per provisions in G.O (MS) No.46, RD & PR dept., dated 26.03.2015.

5. Eligibility of the Beneficiaries:

The beneficiary should:

- (i) Be a resident of the Village Panchayat concerned.
- (ii) Own a site of not less than 300 sq.ft. area.
- (iii) Have clear patta for the site/house in the name of the head of the family or any other member of the household.
- (iv) Do not own any other pucca concrete house in the village or elsewhere.
- (v) Should not have been benefitted under any other housing scheme of the Government.

6. Mode of Selection of Beneficiaries:

- (i) The beneficiaries should be selected from among the poorest of the poor in the Village Panchayat and the list of such beneficiaries shall be approved by the Gram Sabha. While selecting the beneficiaries, priority should be given to those who are listed as vulnerable in PIP list prepared by TNSRLM and PVP project.
- (ii) Out of the total allocation of 20,000 houses in a year, 29% shall be allotted to Scheduled Castes i.e., 5,800 houses, 1% shall be allotted to Scheduled

Tribes i.e., 200 houses and the remaining 70% shall be allotted to others i.e., 14,000 houses (Except SC and ST).

- (iii) 3% of the District-wise allocation should be reserved exclusively for differently abled persons.
- (iv) While preparing the list of beneficiaries, priority should be given to the following persons-**differently abled, widows, destitute and deserted women, women headed families, Ex-servicemen and retired members of the Paramilitary forces, families having severely malnourished children (as identified by the ICDS Department), transgenders, HIV/AIDS/TB affected persons who are certified by the Deputy Director (Health Services) concerned and victims of natural calamities such as fire, flood, etc., Priority shall also be given to households having a mentally challenged person in the family.**

7. Allocation of Houses:

- (i) At the State level, the Director, Rural Development & Panchayat Raj shall allocate the target number of houses to be constructed under this Scheme in a year for each district.
- (ii) At the District level, the District Collector shall decide the allotment of the houses to the Village Panchayats based on the above stated criteria for selection of beneficiaries.
- (iii) For the selection of the list of eligible beneficiaries, a Committee shall be formed at the village level. The committee shall comprise of Block Development Officer (Village Panchayat), Zonal Deputy Block Development Officer and Village Panchayat President concerned shall select the poorest of the poor beneficiary as per guidelines and the final list of selected beneficiaries identified by the Committee should be placed before the Grama Sabha for its approval. The Chairman of Panchayat Union concerned shall be included as a special invitee to the Village Level Committee.
- (iv) The BDO (Block Panchayat) should allocate the houses to the selected beneficiaries based on the priority category of people as approved by the Grama Sabha

8. Execution of works:

- (i) Administrative sanction for the scheme based on the district allocation for each year shall be accorded by the District Collector.

- (ii) The execution of the scheme shall be entrusted to the Block Development Officer (Block Panchayat).
- (iii) The Block Development Officer (BP) should issue the work order to the beneficiaries after confirming the eligibility of beneficiaries with reference to ownership and availability of requisite area for construction through the officials of Rural Development and Panchayat Raj Department.
- (iv) Marking of Site: The Union Overseer / Block Engineer concerned of the particular Village Panchayat shall mark the site as per the type design approved by the Government for commencement of work.
- (v) The Block Engineers / Union Engineers shall be responsible for the construction and other technical aspects of construction as per G.O (MS) No.54, RD & PR (PR.1), dated 22.5.2014. The Union Overseers shall assist in marking and supervision of construction works as per the design and technical standards.
- (vi) The Assistant Executive Engineers shall check measure the construction of the houses.
- (vii) The Project Director, DRDAs, Executive Engineers (RD) and Assistant Executive Engineers (RD) should frequently inspect the progress in the construction of the houses and ensure its timely completion. They should also ensure that there is no deviation from the approved type design or any other guidelines/instructions provided for the implementation of the scheme.

9. Supply of Materials:

- (i) **Cement:** At the State level, necessary steps shall be taken to ensure smooth supply of cement for construction of houses. Cement supply shall be arranged through M/s. TANCEM and the payment may be made by the DRDA at District level and the amount shall be adjusted from the scheme fund. In addition to that, as per the instructions of the Government in G.O.(Ms) No.188 Industries (MID.2) Department dated 11.12.2014 that houses constructed under various Government schemes shall also avail the benefit under the "Amma Cement Supply Scheme", Amma cement may also be supplied to the beneficiaries. A total quantity of 114 bags of cement have to be supplied to each beneficiary.
- (ii) **Steel:** Similarly, Project Director, DRDAs should take necessary steps to procure Steel based on the needs of their district and payment may be made

by the DRDAs at District level and the amount adjusted from the scheme fund. A total quantity of 300 kg of steel shall be supplied to each beneficiary under this scheme.

- (iii) **Doors and Windows:** Beneficiaries themselves can arrange for doors and windows. If the beneficiary is unable to arrange for doors and windows, the Project Director, DRDAs should arrange for the supply of the same to the beneficiaries concerned and the proportionate cost shall be deducted from the scheme fund.

For all the above procurements, the Project Director DRDAs should work out the total quantity of materials needed for their district based on the number of houses allocated to them and ensure the continuous supply of the materials to the beneficiaries for the timely completion of the houses.

10. Installation of Solar Powered (SPV) Home Lighting System:

Solar Powered (SPV) Home lighting system shall be provided for every house under the scheme. The Project Director, DRDAs shall be responsible for the execution of the Solar Powered (SPV) Home lighting system in their respective districts.

The following modalities shall be followed in the installation, operation and maintenance of solar powered lights to the Green houses.

10.1 Modalities for installation of SPV lighting system.

Light Emitting Diode (LED) based solar powered home lights shall be installed in all the 20,000 houses to be constructed during the year 2016-17 with the following configuration:-

- (i) 5 numbers of LED lamps capable of operating for 5 hours a day with one day autonomy (Two numbers 7W LED each in Hall and Veranda, Two numbers 5W LED each in kitchen and Bedroom and one 3W LED in toilet).
- (ii) Tenders shall be floated by PD, DRDA at the District level as per Tamil Nadu Transparency in Tenders Act, 1998 and its rules 2000.
- (iii) The amount for LED based SPV Home lighting system will be drawn by the Director, Rural Development & Panchayat Raj and disbursed to the Project Director, DRDAs of the Districts concerned.

- (iv) Any savings and interest accrued in the accounts of the scheme held by the Project Director, DRDA while implementing the Scheme shall be remitted to Directorate of Rural Development & Panchayat Raj who in turn will remit the same to Government of Tamil Nadu account.

10.2 Technical specification of LED based SPV Home lighting system.

The following technical specification is adopted for LED based SPV Home lighting system.

| Component | Specifications |
|------------------|---|
| PV module | Indigenous Crystalline module not less than 50Wp under STC |
| Lamps | 5 Nos LED luminaries with input power consumption not more than 7W x 2 nos, 5W x 2 nos & 3W x 1 no |
| Battery bank | Not less than 12V, 40 AH LMLA/VRLA Battery |
| Other Components | Control electronics, Module mounting hardware, Battery box, Inter- connecting wires/cables, Switches, Operation, instruction and maintenance manual |

10.3 Calling of Tender.

The Project Director, DRDAs shall call for the tenders for procurement of LED based SPV Home lighting system. The model tender Documents for procurement of LED based SPV Home lighting system will be prepared and communicated to all Districts by the Director, RD&PR.

10.4 Finalization of Tender.

A District level committee shall be constituted as below to finalize the tender and to oversee the installation of LED based SPV Home lighting system.

1) District Collector / Chairman DRDA

Chairman

2) Project Director, District Rural Development Agency

Vice Chairman

| | |
|--|------------------|
| 3) Executive Engineer (RD) | Member |
| 4) Executive Engineer (TANGEDCO) nominated by Superintendent Engineer (TANGEDCO) | Member |
| 5) Assistant Project Officer (Housing and Sanitation) | Member Secretary |

Based on the tender approval by the District level Committee, the District Collector/Chairman, DRDA shall issue work order and execute the agreement with the successful tenderer.

10.5 Execution of Works:

Project Director, DRDA shall nominate the Assistant Project Officer (Housing and Sanitation) and one Junior Assistant cum Computer Operator at each DRDA for day-to-day coordination and supervision at the time of installation of Solar Powered Home Lighting system.

10.6 Warranty

The LED based SPV home lighting systems shall have a warranty of 5 years after installation and commissioning of the system. Any defects that arise during the five year defect liability period shall be rectified by the concerned suppliers.

10.7 Maintenance of the System

There shall be a 5 year warranty period inclusive of Comprehensive Annual Maintenance Contract (CAMC) period for the systems supplied, which shall be the responsibility of the concerned suppliers.

As part of the tender, the commissioning agencies shall be responsible to train the beneficiaries as well as 4 SHG members in each Panchayat to do regular maintenance.

The suppliers should set up District level / Block level Service Centres. A District level Helpline shall also be installed by the supplier/ manufacturer and the beneficiaries shall be provided with such contact numbers for any emergency or grievance redressal.

10.8 Quality Control & Inspection

Project Director, DRDA will engage suitable officer/consultant whose responsibility is to ensure that all the materials used in the LED based SPV home lighting system conform to the prescribed specifications. The officers or consultants shall inspect all the LED based SPV home lighting system after installation and commissioning and shall prepare detailed inspection report on the confirmation of specifications, installation and successful commissioning of the SPV home lighting system.

In case, the quality check reveals that the work is not satisfactory, the implementing agency (PD, DRDA) shall ensure replacement of the material or rectification of the defective workmanship, as the case may be, within the stipulated time. All works rated unsatisfactory shall be re-inspected after the rectification report is received from the suppliers/contractor. Payments shall be made to the suppliers only after receiving satisfactory inspection reports. The Assistant Project Officer (Housing) shall monitor the supply, installation and inspection of the LED based SPV home lighting system.

Any defect in the LED based SPV Home Lighting System will be brought to the notice of PD, DRDA by the beneficiary/ Panchayat/ Block/ District Administration for immediate rectification.

10.9 Fund release and Subsidy Claim

The Director of Rural Development and Panchayat Raj will draw the funds and release the same to the Project Director, District Rural Development Agency. Funds shall be released based on the progress in installation of the Solar lights. Final payment should be made only after the satisfactory completion of the work, after obtaining a certificate relating to completion from the competent authority. The Project Director, District Rural Development Agency shall submit proposal to TEDA for getting subsidy amount eligible for the solar lighting system from the Ministry of New and Renewable Energy (MNRE), GOI and remitted to Government of Tamil Nadu account.

10.10 Training Materials

- (i) Project Director, DRDA shall bring out Brochures / Handouts and other training materials on the usage and maintenance of the LED based SPV lighting equipments. A Handout on Do's and Don'ts shall also be prepared by the Project Director, DRDAs in Tamil and made available to the beneficiaries/Village Panchayats.
- (ii) Training Modules shall be prepared by PD, District Rural Development Agency to train the Panchayat Presidents, Panchayat Secretaries, select SHG Members and other local functionaries deemed fit, so that they can serve as effective interface between the beneficiaries and suppliers.

10.11 Facilitation and Co-ordination by District Administration

- I. The list of Village Panchayats selected along with the details of houses where SPV Home Lighting Systems are to be installed should be finalised by Project Director, DRDA well in advance.
- II. The full address and contact phone numbers of the manufacturers / suppliers / installation and commissioning contractors (AMC holders) should be made available at the District level, Block level and at the Village Panchayat level

11. Documentation:

Photographs exhibiting the beneficiary positioned in front of the house in which they reside at present shall be taken. The same process has to be repeated after completion of the house. These processes have to be documented by the Block Development Officer (BP) before making final payment. Out of the funds allocated for the scheme, 1% is earmarked for documentation and other Information, Education and Communication (IEC) activities.

12. Monitoring:

The District Collector will review the progress of the construction of houses as well as the installation of LED based SPV Home Lighting System with the Block officials and the officials who are responsible for installation of solar lights. The District Collector and the Project Director, District Rural Development Agency are

the Officers responsible for the proper implementation of the Scheme at the District level.

13. Release of funds:

- I. The Director, Rural Development & Panchayat Raj is authorized to draw the annual allocation for CMSPGHS in two half-yearly instalments. The fund in turn will be released to the Chairman, DRDAs of the districts at the rate of Rs.1,80,000/- per house who will in turn release to the respective BDO (Block Panchayat).
 - II. There shall be two CMSPGHS Savings Bank Account at the district level one for civil works and a separate Savings Bank Account exclusively for CMSPGHS solar lights shall be opened in the name of District Collector/Chairman, District Rural Development Agency.
 - III. At the Block level, a separate account shall be maintained, for CMSPGHS for payment towards cement, steel etc; and for payment towards beneficiaries. After deduction for materials issued for beneficiaries, the balance amount shall be released to the beneficiaries bank account through ECS/ Cheque. Payment should not be made by cash at any cost. This account shall be operated by BDO (BP) in appropriate manner as per rules.
 - IV. The payment to installers of solar home lighting system shall be made by Chairman, DRDA at the district level based on completion.
14. The Principal Secretary to Government, Rural Development and Panchayat Raj Department, in consultation with the Director of Rural Development and Panchayat Raj is authorized to amend these guidelines based on the exigencies that may arise from time to time.

**HANS RAJ VERMA,
PRINCIPAL SECRETARY TO GOVERNMENT**

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T. Verma -
SECTION OFFICER