OFFICE MEMORANDUM


This refers Ministry’s Scheme on “Off - Grid and Decentralized Solar Thermal Applications” dated 26.02.2018 (Copy enclosed). As per present provisions of the Scheme, before release of subsidy by the MNRE for the sanctioned CST project, it is mandatory to get the CST project inspected by Regional Test Centre (RTC). Further, inspection has to be conducted by the RTC which has not issued the test certificate for the CST system installed.

2. At present, there are only two RTCs (National Institute of Solar Energy (NISE) and Savitribhai Phule Pune University). Considering the present situation of long pending list of projects to be inspected, it has been decided that all the projects may be inspected by the NISE along with representative from any of the IIT (Bombay/Delhi/Madras).

3. NISE will coordinate the inspection in consultation with the Implementation Agency of the project and also meet all the expenses of the visit for the entire team. TA/DA or any other allied expenditure for the inspection will be reimbursed to NISE as per the provisions of the Scheme.

4. This issues with the approval of the Secretary, MNRE.

Enclosed: As above.

(J. K. Jethani)
Scientist-E

To.
2. Director, Indian Institute of Technology Bombay, Powai, Mumbai 400 076, Maharashtra, India.
3. Director, Indian Institute of Technology Madras, IIT P.O., Chennai 600 036, India.
4. Director, Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110 016, India
5. Prof. (Ms) Pathak, Savitribhai Phule Pune University, Pune
6. All Implementing Agencies (SNAs/Channel Partners/Government Bodies)
Subject: Guidelines for "Off-Grid and Decentralized Solar Thermal Applications Scheme" - Amendments regarding Third Party Inspection and Release of Funds.

The undersigned is directed to refer to Para 3 of the Office Order No. 271/136/2017 - CONCENTRATING SOLAR TECHNOLOGIES dated 26.02.2018 (Copy Enclosed), regarding the implementation of "Off-Grid and Decentralized Solar Applications" in the 2nd Phase of JNNSM during 12th Plan period; Guidelines for "Off-Grid and Decentralized Solar Thermal Applications Scheme" and to state the following additions are made to the following clauses:

5.5. ....

Third Party Inspection of projects implemented by State Nodal Agencies or Departments (SNAs)/Channel Partners/SECI/Any other Govt. agency mentioned in Para 6.1., will be done by any one of the Regional Test Centres (RTC) for CST testing i.e., National Institute of Solar Energy (NISE) or Savitribhai Phule Pune University (SPPU). The inspecting RTC will be other than the one who did the testing of the CST to issue the test certificate. In addition to the above, TA/DA or any other allied expenditure for Third Party Inspection may be given as per actuals and entitlement.

6.1. For setting up of the projects the release of funds for various Implementing Agencies would be as follows:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Implementing Agency</th>
<th>Pattern for Release of Funds</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>State Nodal Agencies and State Nodal Departments</td>
<td>No advance release at the time sanction / in principle approval. 100 % release on reimbursement basis after the successful completion/commissioning of the project and submission of all relevant documents, listed below, after inspection by one of the RTC (NISE or SPPU). The inspecting RTC will be other than the one who tested the CST of the installer.</td>
</tr>
</tbody>
</table>
| 2      | Solar Energy Corporation of India (SECI)                | i. Third Party Inspection Report  
ii. Audited statement of expenditure on the letter head of the certified chartered account showing the total allocated expenditure incurred on this project with attested copy of invoices  
iii. Project completion and performance report with 3 months performance data  
iv. Commissioning and handing over certificate  
v. Photographs of the installed project  
vi. Copy of Mandate form and Registration details  
vii. Joint Undertaking affidavit from beneficiary and manufacturer  
ix. In compliance with Rule 235 of GFR, 2017, Certificate regarding annual audited accounts and maintaining subsidiary accounts for MNRE grants. |
| 3      | Channel Partners                                       |                                                                                                                                 |
| 4      | Other Government Agencies for the Govt. Projects        |                                                                                                                                 |
2. This is applicable to all projects being implemented under the continuation of the Scheme on "Off-Grid and Decentralized Concentrated Solar Thermal (CST) Technologies for Community Cooking, Process Heat and Space Heating & Cooling Applications in Industrial, Institutional and Commercial Establishments" issued by Order No. 271/136/2017 - CONCENTRATING SOLAR TECHNOLOGIES dated 26.02.2018.


(H. R. Khan)
Advisor/Scientist ‘G’

To
The Pay and Accounts Officer,
Ministry of New & Renewable Energy,
New Delhi.

Copy to:

1. All State/UT Nodal Agencies.
2. Principal Director of Audit, Scientific Audit - II, DGACR Building, I.P. Estate, Delhi - 110 002.
4. Director, Solar Thermal Gadget Testing & Technology Back-up Centre, School of Energy Studies, Department of Physics, Savitribhai Phule Pune University, Pune 411 007, Maharashtra.
5. Director, Sardar Swaran Singh National Institute of Bio-Energy, Jalandhar - Kapurthala Road, Wadala Kalan, Kapurthala, (Punjab) - 144 601
6. D.G., National Institute of Wind Energy, Velachery -Tamaram Main Road, Pallikaranai, Chennai - 600 100.
7. M.D., Solar Energy Corporation of India, D-3, A Wing, 1st Floor, Religare Building, District Centre, Saket, New Delhi-110017.
8. The CMD, IREDA, 1st floor, East Court, Indian Habitat Centre, Lodhi Road, New Delhi.
9. All Empanelled Channel Partners, Manufacturer & Suppliers, Entrepreneurs.

Internal Circulation

1. PS to Hon'ble Minister MNRE.
2. Sr.PPS to Secretary, MNRE.
3. PPS to AS (PK), PPS to AS & FA MNRE.
4. All Advisors and Group Heads
5. PPS to all Joint Secretaries, MNRE.
6. Director (NIC) to upload this on the Ministry's website.
8. Sanction Folder
271/136/2017-CONCENTRATING SOLAR TECHNOLOGIES
Government of India/भारत सरकार
Ministry of New & Renewable Energy/नये और वर्तमान की ऊर्जा संबंध
Block No. 14, CGO Complex, Lodhi road, New Delhi - 110 003
Solar Thermal (CST) Division

Dated the 26th of February 2018.

ORDER

Sanction of the President is hereby accorded to the approval for the continuation of the scheme entitled “Off-Grid and Decentralized Concentrated Solar Thermal (CST) Technologies for Community Cooking, Process Heat and Space Heating & Cooling Applications in Industrial, Institutional and Commercial Establishments” at a total cost of ₹ 70 Cr. (including liabilities) during the period of 2017-20.

2. The Scheme will comprise the following year wise targets as under:

<table>
<thead>
<tr>
<th>Financial Year</th>
<th>Target (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-18</td>
<td>20000</td>
</tr>
<tr>
<td>2018-19</td>
<td>30000</td>
</tr>
<tr>
<td>2019-20</td>
<td>40000</td>
</tr>
<tr>
<td>Total</td>
<td>90,000</td>
</tr>
</tbody>
</table>

3. The scheme will be implemented as per the operational guidelines issued vide Office Order No. 30/11/2012-13/NSM dated 4th June, 2014 regarding implementation of “Off-Grid and Decentralized Solar Applications” in the 2nd Phase of JNNSM during 12th Plan period; Guidelines for “Off-Grid and Decentralized Solar Thermal Applications Scheme” [Copy enclosed] with following modifications:

(i). The benchmark cost and eligible subsidy for various technologies are as under:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Solar Collector Type</th>
<th>Benchmark Cost (₹ / Sq. m.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Concentrator with manual tracking (Dish solar cookers)</td>
<td>7000</td>
</tr>
<tr>
<td>2</td>
<td>Solar Collector Systems for Direct Heating &amp; drying and Non imaging/Compound Parabolic Concentrators (NIC/CPC)</td>
<td>12000</td>
</tr>
<tr>
<td>3</td>
<td>CSTs with single axis tracking (including Scheffler Dishes)</td>
<td>15000</td>
</tr>
<tr>
<td>4</td>
<td>CSTs with single axis tracking, Solar Grade Mirror Reflector and Evacuated tube collectors</td>
<td>18000</td>
</tr>
<tr>
<td>5</td>
<td>CSTs with double axis tracking</td>
<td>20000</td>
</tr>
</tbody>
</table>

(ii). Subsidy rate:

a. @ 30% of the bench mark cost or actual cost whichever is less to all beneficiaries in all states
b. @ 60% of the bench mark cost or actual cost whichever is less to Non-profit making bodies and institutions in special category states, viz., NE states, Sikkim, J&K, Himachal Pradesh, Uttarakhand and islands.

(iii). There will be no upper cap on the subsidy to be provided on CST based systems. The pattern of subsidy as above will be continued for 2 years where after, it will be reduced to 20% and 40% respectively.

(iv). The subsidy will be released to implementing agencies/Channel Partners/beneficiaries on reimbursement basis after successful commissioning of the system and on receipt of Project Completion Report along with performance for 3 month, Audited Statement of Expenditure and other relevant documents.
(v). For being eligible to receive subsidy from MNRE, the project should have been approved by the Ministry before implementation of the project. Projects which are started before sanctioning will not be eligible for the subsidy.

(vi). The projects will have to be completed within 12 to 18 months of time from the date of sanction depending on the size of the project. Non completion of the projects with the sanctioned time might attract reduction or forfeiture of eligible subsidy from MNRE, unless approval for extension is taken in advance due to some unavoidable circumstances, beyond the control of the beneficiary.

(vii). Mirrors of solar grade quality will be made mandatory for CST based systems after one year of operation of this scheme.

(viii). Budgetary support for Operation and Maintenance of the CST Test Centres at NISE and SPUoP, Pune will be met under the scheme.

4. Other terms and conditions and guidelines for implementation of the scheme as communicated by this Ministry's vide Office Order No. 30/11/2012-14/NSM dated 4th June, 2014 will remain same.

5. The scheme will come into effect from the date of issue of this order.

6. This issues in exercise of the delegated powers conferred on the Ministry and in consultation of IFD Vide their Dairy. No. Nil dated 11.01.2018 and approval of the Secretary, MNRE vide Dairy. No. Nil dated 23.02.2018

(H. R. Khan)
Adviser/Scientist ‘G’

To
The Pay and Accounts Officer,
Ministry of New & Renewable Energy,
New Delhi.

Copy for information and necessary action to:

1. Principal Director of Audit, Scientific Audit-II, DGACR Building, I.P. Estate, Delhi-110002.
2. All State/UT Nodal Agencies.
4. Director, Sardar Swaran Singh National Institute of Bio-Energy, Jalandahar-Kapurthala Road, Wadala Kalan, Kapurthala, (Punjab) – 144 601
5. D.G., National Institute of Wind Energy, Velachery-Tambaram Main Road, Pallikaranai, Chennai - 600 100.
6. M.D., Solar Energy Corporation Of India, D-3, A Wing, 1st Floor, Religare Building, District Centre, Saket, New Delhi-110017.
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8. PS to Hon’ble Minister MNRE.
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11. All Advisors and Group Heads
12. PPS to all Joint Secretaries, MNRE.
13. Director (NIC) to upload this on the Ministry’s website.
15. Sanction folder.
To
The Pay and Accounts Officer,
Ministry of New and Renewable Energy
New Delhi


Sir,

In continuation to the Administrative Approval for continuation of “Off-grid & Decentralized Solar Applications” Scheme in the 2nd Phase of the Jawaharlal Nehru National Solar Mission during 12th plan period issued vide No. 30/11/2012-13/NSM, dated 23rd May, I am directed to convey the Guidelines for implementation the “Off-grid and Decentralized Solar Thermal Application Scheme”. The Ministry would issue separately “Operational Guidelines” for the implementation of this ‘sub-scheme’ in due course.

2 This issues in exercise of powers delegated to this Ministry and with the concurrence of IFD dated 29/05/2014 vide their Dy. No. IFD/364/2014-15, dated 20/05/2014.

Yours faithfully,

(Veena Sinha)
Director (EA&ST)
Tele fax: 011-24362438
E-mail: veena.sinha@nic.in
1. Background:

The Government had launched the Jawaharlal Nehru National Solar Mission, which is a major initiative of the Government of India and State Governments to promote ecologically sustainable growth while addressing India's energy security challenge. It will also constitute a major contribution by India to the global effort to meet the challenges of climate change. Aim of the Mission is to focus on setting up an enabling environment for solar technology penetration in the country both at a centralized and decentralized level.

The first phase (up to March 2013) having achieved the required target and momentum, Solar Thermal component of JNNSM in balance period (UPTO MARCH 2022) will now, inter alia, would require focus on promoting off-grid systems including hybrid systems to meet / supplement heating and cooling energy requirements and power. These systems still require interventions to bring down costs. The key challenge is to provide an enabling framework and support for entrepreneurs to develop markets. This scheme /programme will address off grid and decentralized solar thermal application area/systems.

Solar thermal is second largest renewable energy source after wind energy. Around 60 million households worldwide use solar hot water collectors. Total Worldwide installed capacity- 235 GWth (335 million sqm.). India was ranked 4th in the world in terms of new capacity addition during the year 2011. Installed capacity for India stands at 7.281 million sq m\(^2\) equivalent to 5082 MWth till 30\(^{th}\) October 2013. Worldwide these achievements were achieved with interventions in the form of capital subsidy/incentive in Electricity bill/ mandatory provision through heat laws.

In India Fossil fuels are being used for process heating, drying, distillation/desalination, water heating, space heating and refrigeration and power/electricity generation. Nearly 25 million households using electric geysers, consuming ~ 7500 GW-hr of electricity (assuming minimum annual consumption of ~ 600 kWh/year/ geyser) and 15 million tons/year of petroleum fuels are used in industries in thermal form at temperatures below 300°C. It is assumed that 30% of energy consumed in industry is used for heating water, which shows that there is a huge potential.

1.1 Name of the scheme

The scheme will be known as 'Capital subsidy scheme for installation of solar thermal systems.

1.2 Solar thermal applications/systems areas to be covered in this scheme

The heat produced from solar energy can be used for various applications in different sectors like process heating, drying, distillation/desalination, water heating,
space heating and refrigeration and power/electricity generation. Following systems may be considered for grant of capital subsidy in this scheme

(i) **Solar water heating**

A solar water heater (SWH) is a combination of an array of collectors, an energy transfer system and a thermal storage system. In active solar water heating systems, a pump is used to circulate the heat-transferring fluid through the solar collectors, whereas in passive thermo-siphon systems, the natural circulation of working fluid is used. The amount of hot water produced from a solar water heater critically depends on design and climatic parameters such as solar radiation, ambient temperature and wind speed.

Solar water heaters are basically classified into two types:

- Flat-Plate Collectors (FPC)
- Evacuated Tube Collectors (ETC)

(ii) **Solar air heating**

Solar air heating (SAH) systems use air as the working fluid for absorbing and transferring solar energy. These systems are used for the production of hot air for drying/space-heating applications.

(iii) **Solar steam generation/ pressurized hot water/air systems**

Solar energy can be used to generate heat for medium and high temperature applications using different types of Concentrating Solar Systems. The heat generated could be used for process heat allocations in industries in the form of steam/pressurized hot water/air, cooking in community kitchens, laundry in hospitals/hotels etc.

(iv) **Solar thermal refrigeration/cooling**

Solar cooling can be considered for two related processes: to provide refrigeration for food and medicine preservation, as well as to provide comfort cooling. It appears to be an attractive proposition due to the fact that the demand for cooling is highest when the sunshine is strongest and this technology harnesses sunshine to provide comfort cooling. Solar thermal cooling system based on Vapour Absorption Technology are viable in areas where power cuts are high and fuel oil is being used for such purpose.

(vi) **Solar Thermal Power Pack (including hybrid with Solar PV)**

Concentrating Solar Power (CSP) technologies use solar energy to produce high temperature by focusing solar radiation from a larger area on to a smaller area and then generating electricity by employing a prime mover, most commonly actuated by high pressure steam, but also using a external combustion engine (like Sterling engine) directly. CSP has capacity to store heat energy by building in
thermal storage, for continuing operation during periods of low sunshine as well as after sunset.

In order to improve the economics of CSPs, the concept of tri-generation has been found very useful where attempt is made to simultaneous generation of electricity, useful heating and cooling from the same heat source of solar energy. Typically, a solar electricity generating system will have substantial amount of rejected heat, and under the concept of tri-generation a part of this heat is utilized for cooling and heating of space and/or water and water purification etc. separately.

These systems could have great relevance in the context of buildings or complexes of buildings housing shopping malls, manufacturing facilities, universities, hospitals, rural centres, etc. In principle, these systems will have ability to sell electrical power back to the Discoms, whenever it is in excess of the demand.

(vii) Solar stills

Simplest form of water desalination plant which can be hybridized using solar water heater based on FPC/ETC/CST could be useful for rural areas to provide drinking water to people.

1.3 Validity of the scheme

The scheme will be valid till 31.3.17 or such extended period as may be allowed by the government of India.

2. Objectives:

2.1 To promote off-grid applications of solar Thermal systems (solar water/air heating system, solar cooker, solar concentrating system, solar thermal power pack as covered in para 1 above) for meeting the targets set in the Jawaharlal Nehru National Solar Mission.

2.2 To create awareness and demonstrate effective and innovative use of solar thermal systems for individual/community/institutional/industrial applications.

2.3 To encourage innovation in addressing market needs and promoting sustainable business models.

2.4 To provide support to channel partners and potential beneficiaries, within the framework of boundary conditions and in a flexible demand driven mode.

2.5 To create a paradigm shift needed for commoditization of off-grid decentralized solar thermal applications.

2.6 To support consultancy services, seminars, symposia, capacity building, awareness campaigns, human resource development, etc.

2.7 To encourage replacement of kerosene, diesel & wood wherever possible.

3. Scope of the Scheme:

3.1 The programme would be applicable in all parts of India and will, inter-alia, focus on promoting off grid and decentralized systems as defined in para 1 above, including hybrid systems to meet/supplement heating and cooling energy requirements, generate electricity/power through solar thermal system. The Project
Appraisal Committee could also examine other feasible hybrid technologies for inclusion in the Programme.

3.2 The off grid and decentralized system of any size would be eligible under the scheme. The scheme may be implemented in Urban and Rural Area as well.

3.3 The scheme will also encourage R&D work related to new material for solar collector, storage tank, online monitoring, software development, establishment of testing facilities, state specific studies on potential assessment, system package development, policy development, engagement of consultants, seminars/workshops, capacity building & trainings, awareness campaigns preparation of literature/guidelines, innovative projects, IT enabled monitoring mechanisms, evaluation and other studies etc.

3.4 Soft loans for projects, including a component for working capital, will be available to SME manufacturers of solar thermal systems, in order to promote technology up-gradation, improvement in technology, expansion in production facilities, etc. through refinance facility implemented through IREDA.

4. Mode of Implementation:

The programme would be implemented through multiple agencies for rapid up-scaling in an inclusive mode. These agencies would be State Nodal Agencies/Depths implementing the renewable energy programmes, Solar Energy Corporation of India, Channel Partners and other Govt. organizations i.e., PSUs/Institutions/State Departments/Local Governments/Municipal Corporations/NHB/NABARD/IREDA etc.

4.1 Mode of implementation can be on following basis:

Renewable Energy Service Providing Companies (RESCOs): These are companies which would install, own & operate RE systems and provide energy services to consumers. These entities may tie up with FIs for accessing the financial support under the scheme.

Engineering Procurement and Contracting (EPC): End users may tie up with DCPs/SNAs/SECI/FIS for installations/operation and maintenance of RE system.

The implementation will be carried out in both programme/project modes. The projects to be implemented in programme mode and in project mode have been addressed separately in Para 5.

4.2 The agencies for implementation will be as follows:

(i) State Nodal Agencies (SNAs)

State Nodal Agencies /Depths. for implementing various renewable energy programmes have been established under the control of respective State Governments. The yearly target will be allocated to the States/SNAs depending upon their interest, demand and the capability in the beginning of the Financial Year (FY). About 10 % of eligible CFA can be released in advance at the time of target
allocation. The SNAs will keep/maintain all applications and records with them and will submit the requisite brief about the beneficiaries/projects duly certified by them. These records will be made available for the audit purpose or to the inspecting team/MNRE officials etc. Upto 30% of CFA can be released as advance after finalizing the tender.

(ii) **Solar Energy Corporation of India (SECI)**

The SECI will submit annual plan for implementation, depending upon the feasibility and availability of funds. The projects will be setup on open tender basis by SECI.

(iii) **System integrators/ Channel Partners**

These channel partners would help the individuals and small groups of clients to access the provisions of the programme. They would enable significant reduction in transaction cost and time.

Channel Partners will be empanelled by MNRE based on certificate from a rating agency in the country for technical and financial strength. The rating agencies would check the net worth/turnover of the participating entity, its technical capability of supplying, installing and providing after sales service, track record and tie-ups with the equipment suppliers. Reputed Govt. technical Institutions could be exempted from the accreditation by rating agency on submission of their application with MNRE based on criteria defined for this purpose.

Detailed Guidelines for accrediting/empanelling channel partners will be separately put in place by MNRE.

(iv) **Financial Institutions/ Intermediaries:**

These are entities which would integrate different sources of finance including carbon finance, government assistance loans and other sources of funds to design financial products/instruments and make these available to their clients at an affordable cost. These entities would tie up with manufacturers and service providers for supply of products. This category will include NABARD, NHB, SEC/IREDA other financial institutions. MNRE may draw up a scheme and place subsidy funds with the institution which can then be disbursed along with loan to the beneficiaries. The advance to be given may depend on the expected volume of business.

(v) **Large PSUs/Government dept.**

Depending upon their interest and on case to case basis projects will be sanctioned. About 10% of eligible CFA can be released in advance at the time of sanction of their project. They will keep/maintain all applications and records with them and will submit the requisite brief about the beneficiaries/projects duly certified by them. These records will be made available for the audit purpose or to the inspecting team/MNRE officials on need basis etc.
5. Funding Pattern

5.1.1 Solar Water Heating System

Funding under the scheme would be in Project mode for single systems larger than 10,000 lpd or equivalent in sq.m. area, i.e. there must be a project report which would, inter alia, include client details, technical & financial details, O&M and monitoring arrangements other document as necessitated from time to time. For lower capacity systems, i.e., below 10,000 lpd this would be operated in programme mode. Project proposals for subsidy disbursement shall be submitted to the MNRE in the prescribed formats.

5.1.2 Solar Air Heating System

The solar air heating system will be classified into the following categories and implementation would be in program mode:

- **Category 1** Solar air heater for industrial/agro processing/ rural application (solar panel, support frame, controls, blower and ducts) with/without SS drier.

- **Category 2** Solar space heating (solar panels with support, blower, Inlet and outlet insulated ducts, controls).

5.1.3 Concentrating Solar Thermal (CST) System

Since CSTs are new as compared to solar water heating systems and there is vast potential for their proliferation, scheme would be operated in project mode. The proposal along with pre-feasibility/ detail project report as the case will be submitted to MNRE.

5.2 Subsidy Level

Capital subsidy would be computed based on the subsidy level applicable for type of solar thermal application multiplied by the collector area involved in a given solar thermal application/project If a system based on energy output is devised then this will change accordingly. Maximum CFA level would be 30% / 60% of the benchmark cost of respective solar thermal system. The present subsidy level for 2013-14 and application areas supported and Technical Standards for Solar Thermal systems are given in Annexure- 1 (part- B).

5.2.1 Normally, the CFA of 30% would be given for the projects/systems set up on open tender basis by SNA/SECI/PSUs/FI/Government organizations or 30% of benchmark cost, whichever is lower.

5.2.2 In case of project(s) setup through system integrator/channel partner; a correction factor will be applied so that subsidy outgo will not be more than absolute fixed value arrived at by the committee for fixing the benchmark cost and subsidy level/amount.
5.2.3 Further MNRE may time to time fix correction factor on different category/projects/systems/technology based on the market need and the availability of funds. These applicable corrections factor will be brought out in guidelines issued from MNRE from time to time for bringing clarity. The sectors will be so designed that the subsidy is progressively reduced for such products e.g. solar water heating systems where market is established.

5.2.4 Steps will be taken by MNRE to progressively phase out the subsidy for solar water heaters over next five years after considering market dynamics and fund availability for various categories like residential, industrial, different product (based on different technologies). Subsidy for special projects may however continue. A success fee of 10% to be given after successful operation for 1 year may continue after subsidy is phased out for which MNRE will develop guidelines.

5.3 Capital subsidy of upto 60% of the benchmark cost would be available for special category states, viz. NE, Sikkim, J&K, Himachal Pradesh and Uttarakhand. In addition, it would be extended for setting up only standalone rural solar thermal power plants / packs or hybrid in remote and difficult areas such as Lakshadweep, Andaman & Nicobar Islands, and districts on India's international borders.

5.4 MNRE would also fund for meeting the expenditure towards development of software and hardware, based on an estimate provided, for implementing and monitoring the scheme effectively. It would present an audited annual statement of accounts.

5.5 Upto 3.0 % of CFA would be admissible as service charges to State Nodal Agencies, SECI/NHB/IREDA or other govt. agencies etc. This would be provided by MNRE, in addition to the CFA. The amount of CFA to be given to the State Nodal Agencies/ SECI etc. as service charges would be determined as follows:-

(a) Efforts made in preparing innovative cases by deploying staff in the field preparing DPRs etc.
(b) Providing technical assistance / help in implementation of the schemes
(c) Having an IT based monitoring mechanism in place to reflect not only the progress during implementation but also performance after installation
(d) MNRE may retain appropriate amount out of this 3% and provide to some other organization to give technical support to such Nodal Agencies which may be weak or not having enough technical staff. Experts or qualified professionals may also be placed with SNAs from this money.

5.6 CFA for organizing seminars/workshops, prize distribution ceremony, trainings, awareness campaigns, preparation of literature/guidelines, innovative projects or other miscellaneous work etc. depending on merit. A total fund of upto 2% would be earmarked and about 100 such activities are proposed during the balance period of 12th Plan across the country.

5.7 In order to manage and monitor all activities listed above, a project management cell in MNRE, engagement of consultancy organization will be done. A total fund of upto 1.0 % is proposed to be utilized.
5.8 Some R&D work could also be supported under this programme on merit. The state specific studies on potential assessment, system package development, policy development engagement of consultants etc. will be supported under the programme. Upto 1% of the total budget would be earmarked for this purpose.

5.9 The CFA from MNRE would not preclude the various implementing agencies from availing other fiscal and financial benefits being provided by State, Central Governments and any other agency so long as the same is clearly disclosed in the project report/proposal. This is to avoid multiple financing.

5.10 Special projects: In order to demonstrate/establish new and innovative technologies and new applications, MNRE may sanction special projects. These projects may be implemented by any agencies given in 4.1. They will submit a proposal in this regard with plan of vision, time lines, results expected etc. The CFA for such project can be upto 30% for solar water heaters and 40% for concentrated solar thermal technologies.

6.0 Release of Funds:

6.1 For setting up of the projects the release of funds for various Implementing Agencies would be as follows:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Implementing Agency</th>
<th>Pattern for Release of Funds</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>State Nodal Agencies and State Nodal Departments</td>
<td>Upto 30% of the eligible CFA and services charges at the time of sanction of the proposal in the project/programme mode. However, 10% advance may be given at the time of allocation of targets on programme mode. 70% after successful commissioning of the projects after sample verification on submission of requisite claims.</td>
</tr>
<tr>
<td>2.</td>
<td>Solar Energy Corporation of India (SECI)</td>
<td>10% advance on allocation of targets/sanction of the preliminary proposal on programme mode. 20% after submission of detailed proposal on the costs firmed up on tender basis. 70% on completion/commissioning, performance report for about one month and due verification/third party inspection thereof on submission of requisite claims.</td>
</tr>
<tr>
<td>3.</td>
<td>Channel Partners</td>
<td>On reimbursement basis on completion/commissioning, performance report for about one month and due verification/third party inspection thereof on submission of requisite claims. 50% of the eligible CFA to be released at the stage of claims submitted after completion/commissioning and balance 50% after verification/3rd party inspection. In case of CST based systems, 100% of eligible CFA may be released after 3rd party inspection on commissioning.</td>
</tr>
<tr>
<td>4.</td>
<td>Other Government Agencies for the Govt. Projects</td>
<td>Upto 30% of the eligible CFA and service charges at the time of sanction of proposal in the project/programme mode. 70% after successful commissioning of the projects after sample verification on submission of requisite claims.</td>
</tr>
</tbody>
</table>
6.2 The subsidy will be disbursed directly by MNRE to the implementing agencies. MNRE may specify an accounting system, monitoring mechanism and transparent computer based web enabled data bank with beneficiaries and system details. MNRE may also use SECI/IREDA/other suitable agencies for subsidy disbursement to channel partners after working out mechanism for that.

7.0 Approval Mechanism

7.1 At the beginning of each half-year MNRE shall release an indicative target for that period. All the Channel Partners shall submit, within a 15 day period to be prescribed by MNRE, proposals/ targets in the prescribed formats along with a commitment for meeting the balance cost of the project other than the CFA to MNRE. Targets will be approved and communicated and the channel partners can start implementation at their own risk and investment. They will be responsible for following the scheme guidelines and MNRE specifications. In case capacity applied for by the channel partners exceeds the available capacity in that period, MNRE will devise a transparent mechanism to decide on the allocation of capacity to the various channel partners. However, in no case shall the total capacity allocated through Channel partners exceed 50% of the total capacity allocation in any particular year.

7.2 Proposals of State Nodal Agencies, SECI and other Govt. Agencies, NHB, PSUs and IREDA will be directly processed by the division.

7.3 The entire process of receiving proposals, processing them and giving approvals would be preferably IT enabled. The PAC/Division would also frame rules and prescribe formats etc. for project approval, within the overall framework of this scheme, so as to make the process transparent.

7.4 The in-principle approval of the targets/ proposals may be granted by the programme division in- advance to the States Departments/SNAs/Channel Partners and other implementing agencies to enable them for planning their strategies identify the beneficiaries, formulate the specific proposals etc.

8. Project Management Consultant (PMC)

The government may engage a reputed agency as a Project Management Consultant (PMC) to handle all the processes such as assistance for formulation, appraisal and screening of proposals preceding the formal approval which would be a sovereign function of MNRE. It could also assist the Ministry in formulating the detailed implementation guidelines/ formats, if any.

9. Monitoring and Evaluation:

9.1 It is proposed to have three tier monitoring and evaluation system involving implementing agency as first tier, third party inspecting agency as second tier (Inspection proposed on stratified sampling basis), and random checking by ministry itself. Further at the end of plan period evaluation of scheme by independent evaluator will be carried out for continuation in next plan period.
In case of Govt. organization/Large PSUs/ SNAs second tier monitoring may be waived off on production of self-certification by them. IT enabled monitoring and verification protocols will be putted in place for monitoring on pan India basis.

9.2 It is envisaged that certified energy auditors, scheme monitors and others would be empanelled for certifying whether the outputs of the system correspond to the parameters laid down in certificates for different products.

10. Technical Requirements

The scheme would require the project proponents to strictly adhere to thenational/international standards specified by the Ministry from time to time. The existing National Standards/ MNRE Specifications in respect of Solar Thermal Components/Systems are given in Annexure-1 (part-B).

11. Supporting Innovation

In very special and rare cases, the Ministry could consider higher CFA for undertaking pilot and demonstration projects either for demonstrating new and innovative applications or for demonstrating new technologies. Ministry may also consider sanctioning to SECI or other government institutions demonstrative projects with higher CFA with a proviso for recovery of the CFA on savings in fuel usage. Detailed guidelines for such schemes would be separately drawn up if required.

13 Natural Calamities and Disasters

Ministry could consider providing 100% funding in case of declared natural calamity for installation of small solar systems on humanitarian grounds.

14. Interpretation of the Guidelines

In case of any ambiguity in interpretation of any of the provisions of these guidelines, the decision of the Ministry shall be final.

15 Miscellaneous

MNRE may frame specific guidelines for various products and various categories, target fixation and subsidy disbursement methods, benchmark cost fixation, seeking fund availability through different resources including other ministry, utilization of funds available through NCEF/External assistance based on this scheme to bring in more clarity and easy applicability. In these guidelines MNRE may exclude certain provisions if they are not required for that product category or if it is felt that lesser support is required.

16. Review

The scheme would be reviewed by an Internal Review Committee at 6 month/yearly interval and modifications therein would be incorporated by the Ministry. In addition, a platform for experts to discuss best practices, debate over issues to overcome bottle necks and provide effective policy suggestions for ensuring wide spread off grid solar thermal solutions deployment would also be established at the national level.
Fixing of CFA and Benchmark cost

For fixing CFA and benchmark cost, MNRE will set up a committee which will take various tenders rates inputs from SECI and other agencies including Nodal agencies, component market rates, global rate trends etc. The CFA may be fixed annually or biannually. CFA will be on benchmark cost and fixed in absolute value i.e. in Rs./sq. ft. collector area or in thermal energy output basis. There could also be other parameters like efficiency of system.

In case of channel partners a correction factor will apply on the benchmark price to determine the CFA. Following procedure is used to determine the benchmark cost under Solar off Grid Scheme:-

(i) Benchmark cost will be determined separately for the following categories of products:-
   a) Solar Water heaters
   b) Solar air heater
   c) Concentrated solar thermal (high temperature application)

(ii) The benchmark cost for solar Thermal system may include following components:
   a) Solar water heater – solar collectors, storage tanks, connection between collector and tank, heat exchangers, as per the site requirements.
   b) Solar air heater– solar collector, frame, blower, duct, ss dryer, axial fan, other accessory as per requirement.
   c) Solar concentrating system – concentrator, frame mounting, pressure reduction station, receiver with inter connection between receiver and header/storage tank. Accessories, gauges, / valves / control panel, backup boiler, piping, as per the site requirement.

(iii) Separate committees would be constituted in MNRE for these categories.

(iv) The benchmark cost would be fixed based on the following two main criteria:
   a. Price determined through tenders done by SECI, State Nodal Agencies and other Government Departments/ organizations in 12 months preceding the date when the committee starts working for determining the benchmark cost for next year.
   b. Component wise cost breakup to arrive at an estimated price of each of the products for which benchmark cost is determined. The committee will collect data about all the tenders floated with MNRE subsidy. These would then be clubbed into different categories depending on the product, technology etc. Thereafter the committee may develop criteria for arriving at a rate out the price or by calculating median. The benchmark so determined through tendered price will then be compared with values arrived at through costing by clubbing the price of various components. In case of wide difference, the committee may go into the reasons and if need be, apply correction factor.
The committee may take into account all relevant factors and also co-opt experts if necessary to adopt a benchmark price as close to the actual price as possible. The committee may also relook the benchmark cost after 6 months in case it is felt that there is a major change in the market.

It is hoped that price of the system will come closer and closer to benchmark cost as time progresses and after few years the price coming through tenders would not be very different from benchmark cost. Benchmark cost will also get rationalized as technologies improve.

18. Tatkal Scheme

There would be provision for reserving quantities of various solar systems at lower subsidy levels along with the facility of disbursement on priority basis in a definite time period. This would, however, be done within the upper subsidy cap as laid down in the scheme for the particular component. A committee will be set up to decide the scheme separately.

19. Hybrid systems

There would be a provision to promote hybrids like Wind-solar etc. within the defined CFA and subsidy limits for that particular component in this scheme.

20. Monitoring of System life

Online monitoring will be compulsory for all systems more than 10 kWp capacity for PV and equivalent of 10 kW capacity for thermal systems. Real time monitoring may be specified by MNRE for large systems and online monitoring would be eventually extended to 1 kWp systems as well.

Life of systems and products will be specified from time to time and efforts will be made to ensure that no systems or products are discarded before full life usage.

21. Guidelines for Channel Partners

The Channel Partners are an important implementing agency. It is essential to ensure that guidelines for selection, rating and appraisal of channel partners are transparent and simple. It shall also be ensured that there are no restrictions on the number of channel partners and all otherwise eligible agencies are empanelled subject to their rating and appraisal. In case of overcapacity of applications, the projects shall be allocated among channel partners in a transparent manner. MNRE shall issue detailed guidelines for channel partners covering all these aspects.

22. Redundancy and interpretation

In case of a particular application being eligible for CFA under more than one of the sub-schemes outlined above, the same shall be considered for sanction under that sub-scheme which involves lesser minimum CFA. In case of any ambiguity regarding interpretation of the guidelines, the decision of MNRE shall be final.
### Annexure 1

**Solar Thermal Application Area to be supported under this scheme**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Solar Collector type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Low Temperature Solar Thermal Systems</strong></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Evacuated Tube Collectors (ETCs)</td>
</tr>
<tr>
<td>2</td>
<td>Flat Plate Collectors (FPC) with liquid as the working fluid</td>
</tr>
<tr>
<td>3</td>
<td>Flat Plate Collectors with air as the working fluid</td>
</tr>
<tr>
<td><strong>Medium Temperature Solar Thermal Systems</strong></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Fixed focus automatically tracked elliptical dishes, Parabolic troughs, Linear Fresnel reflectors, Non-Imaging Concentrators &amp; Heat Pipes</td>
</tr>
<tr>
<td>i)</td>
<td>Retrofitted</td>
</tr>
<tr>
<td>ii)</td>
<td>New system for cooking / process heat</td>
</tr>
<tr>
<td>iii)</td>
<td>New system for space cooling</td>
</tr>
<tr>
<td><strong>High Temperature Solar Thermal Systems</strong></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Dual axis tracked Fresnel reflector/ paraboloid based dishes and central tower receiver</td>
</tr>
<tr>
<td>i)</td>
<td>Retrofitted</td>
</tr>
<tr>
<td>ii)</td>
<td>New system for cooking / process heat</td>
</tr>
<tr>
<td>iii)</td>
<td>New system for space cooling</td>
</tr>
</tbody>
</table>

### Nomenclature

ETC/ FPC System with water as working fluid will comprise of solar collector, with/without storage tank and piping between them, heat exchanger and other accessories optional.

ETC/ FPC System with air as working fluid will comprise of solar collector, frame, blower, duct, with/without SS dryer.

Retro-fitted will comprise of solar system only including storage etc and piping connected to existing conventional system.

New system for cooking / process heat will comprise of complete solar system, boiler and cooking vessels.

New system for space cooling will comprise of solar system, boiler and cooling system including Vapour absorption machine, Cooling tower & other components.
Annexure 2

National Standards/ MNRE Specifications on Solar Thermal Components/
Systems

A) Indian Standards

National Standards are brought out by Bureau of Indian Standards. The
details of these Standards which contain minimum performance requirements along
with test methods are as follows:

1. Solar Flat Plate Collectors
   a) IS 12933 (Part 1):2003, Solar flat plate collector - Specification, Part 1 -
      Requirements.
   b) IS 12933 (Part 2):2003, Solar flat plate collector - Specification, Part 2 -
      Components.
   c) IS 12933 (Part 3):2003, Solar flat plate collector - Specification, Part 3 -
      Measuring instruments.
   d) IS 12933 (Part 5):2003, Solar flat plate collector - Specification, Part 5 -
      Test methods.

   These Standards does not apply to concentrating & unglazed collectors and
   built-in-storage water heating systems.

2. Box-Type Solar Cookers
   a) IS 13429 (Part 1):2000, Solar cooker-Box type - Specification, Part 1 -
      Requirements.
   b) IS 13429 (Part 2):2000, Solar cooker- Box type - Specification, Part 2 -
      Components.
   c) IS 13429 (Part 3):2000, Solar cooker- Box type - Specification, Part 3 -
      Test methods.

B) Test Procedures & MNRE Specifications

MNRE Specifications

1. Evacuated tube collectors and system
2. Dish Solar Cookers
3. Indoor community solar cookers
4. Solar steam generation/pressurized hot water/ air systems

MNRE has laid down the standards for evacuated tube collector system and
minimum technical specifications for Dish solar cookers, Indoor community solar cookers
and Solar steam generation/pressurized hot water/ air systems which are available at its
website www.mnre.gov.in. These are required to be followed for claiming subsidy from
MNRE.
Test Procedures

1. Solar dish cookers
2. Thermo-siphon-type domestic solar Hot Water Systems

C) Testing Laboratories/ Centers

1. In order to make available quality product in the market, the Ministry works with Bureau of Indian Standards (BIS) and Quality Council of India. Presently, Indian Standards are available for solar flat plate collectors and box-type solar cookers and BIS implements a testing and certification programme which forms the basis of certification of these products by BIS. List of test laboratories and centres are available on MNRE website.

2. For domestic size solar water heating systems based on thermo-siphon mode of operation, the Ministry has supported development of a test protocol with certain minimum performance requirements. For solar dish cookers, the Ministry has defined minimum specifications and has brought out a test procedure. In addition, the Ministry empanels manufacturers of solar water heating systems based on evacuated tube collectors.

3. There is a network of test centres in the country which is recognized by BIS for carrying out certification testing as per Indian Standards. The details of these test Centres are available on MNRE website and is updated from time to time.

4. The solar thermal devices/systems must be tested at one of these test centers.
Format for the release of Government subsidy to channel partner/ beneficiaries for installation of solar steam generating systems (CST Division)

In order to claim the subsidy the applicant (channel partner/beneficiary) must submit their application to MNRE in the specified format given in Annexure 1. In case, if the project was installed by a manufacturer who is not a channel partner, the document needs to be forwarded through the concerned SNA. The following documents must be enclosed with the application without which the application would be considered incomplete and summarily rejected. The beneficiary name wherever applicable refers to the name of the institution/company where the system is installed.

F1. Joint inspection report

After commissioning, the system must be inspected by a team of three members which include a representative from beneficiary, an official from Manufacturer and a third official who must be from SNA/Regional Test Centers (RTC) of MNRE/ 3rd Party directed by MNRE / officials deputed by MNRE. The inspection should be based on the parameters specified in the joint inspection report (as given in Format F1) and the outcome of the report must be satisfactory. The system must be installed as per the technical specifications given in MNRE website www.mnre.gov.in. The inspection should normally be done within a month after the commission of the system.

F2. Audited Statement of account (SoE)

The audited SoE of the beneficiary must be submitted as given in the format F2. The audited SoE must contain the details of the total invoice cost of the system separately showing the cost of the solar collectors and extra charges, and the total amount incurred on the system by the beneficiary. The audited SoE must be submitted in the original letter head of a certified Chartered accountant duly signed and date stamped by the Chartered accountant clearly mentioning his FR Number.

F3. Project completion and performance report with photographs

The project completion and performance report is mandatory to claim the subsidy as it ascertains the authenticity of the project. The project completion and performance report must be submitted as per format F3. This report also certifies the handing and commissioning of the system. Performance data for at least 15 days need to be
submitted. The applicant must submit at least three photographs of the installed systems which should highlight location site and the installed systems. All the photographs need to be pasted neatly in an A4 sheet paper.

F4. Mandate form and Registration Details
To facilitate electronic mode of transfer of the subsidy amount the beneficiary/channel partner to whom the subsidy is released need to submit the bank account details in a mandate from duly completed. Mandate form must also accompanied by the registration details. The format of mandate form and registration details is also provided. This document will be identified as F4 (A &B).

F5. Utilization Certificate (In case of any advance released)
In case, if there is any advance released along with the sanction of the project, a Utilization certificate in the format as given in GFR19-A must be submitted. The copy of Utilization certificate is also provided. This document will be identified as F5.

The manufacturer and beneficiary had to submit an undertaking certificate jointly signed by the two parties as given in Format F6.
From

XXXXX (Beneficiary Name, Address, E-mail and phone number)

To

The Director,
Solar thermal Division
Block-14, MNRE. CGO Complex, New Delhi.

Sir/Madam,

Subject: Request for release of subsidy against Sanction Number XXXXX
dated XXXXX.

With reference to the above sanction number, the solar steam generating system for cooking/process heat/cooling application of XXXX square meter area has been successfully installed at XXXX (location) on XXXX (date of commission) by M/s XXXX (Manufacturer name). The installation/commissioning of the project abide to the conditions directed by MNRE in the respective sanction order. XXXX Rupees are saved and benefited by the application of the Solar Cooking/process heating/cooling system. In this regard, MNRE may kindly do the needful to release the eligible subsidy of Rs. XXXX against the verification of following enclosures.

Enclosures (√ mark the appropriate box)
1) Joint Inspection Report (F1) ☐
2) Audited SoE in the letter head of CA (F2) ☐
3) Project completion and performance report with photographs (F3) ☐
4) Mandate form and Registration details (F4 A & B) ☐
5) Utilization Certificate (F5) (Applicable, if any Advance amount is released) ☐
6) Joint Undertaking certificate from beneficiary and manufacturer (F6) ☐
7) Colour Photographs of the installed project duly endorsed by the Beneficiary
due to the conditions directed by MNRE in the respective sanction order (One of the CST field in focus condition and other of application) ☐

Yours Sincerely,

Authorized Signature of beneficiary with date and seal: ……………………………

Name of the Authorized person with contact number: ……………………………………
## Joint Inspection Report Format
(For the purpose of releasing subsidy/settlement of accounts on solar steam generating systems)

<table>
<thead>
<tr>
<th>Beneficiary Name</th>
<th>MNRE sanction No. &amp; Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Place of Installation and Total Area in Sq.m</th>
<th>Date of commissioning of project</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Serial Number of the installed system</th>
<th>Manufacturer Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Certified that the above project has been inspected by us and following has been ascertained (Please Tick Yes/No):

<table>
<thead>
<tr>
<th>S.No</th>
<th>Check Details</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Whether the system has been installed and commissioned as per MNRE specifications and its Workmanship is good with proper insulation done at all required components?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>2</td>
<td>Does the mirrors comply to solar grade quality and the supplier has given warranty/guaranty to replace them at his own cost if found deteriorating within 5 years?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>3</td>
<td>Have the supplier/manufacturer followed all safety measures while installing the system including IBR certificate from concerned department (if required)?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>4</td>
<td>Have all the solar dishes been checked for their focuses on the receivers and it is verified that no manual adjustments (for Scheffler dishes) is required during the whole day to keep the focal spots within the receivers?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>5</td>
<td>Is there any shadows observed/expected on the dishes or from outside structure during the day time hours (9am to 4pm)?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>6</td>
<td>Has the performance data generated from the system for a period of at least 15 days (as enclosed) been studied?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>7</td>
<td>Is the system delivering the required heat output as envisaged in the proposal submitted to MNRE?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>8</td>
<td>Is the system properly integrated with pressurized vessels/boilers?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>9</td>
<td>Does the system area, number of dishes, number of axes and tracking options proposed in the project proposal matching with actual installed size? Specify the following - area ....... sq. m, Tracking: Single axes / dual axis / manual</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>10</td>
<td>Is the beneficiary satisfied with the installation &amp; performance of the system?</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Signatures with name, designation, seal and date**

(Beneficiary) 

(Manufacturer)

(Official *)

**Note:** For any diversion from above, necessary justifications need to be enclosed by the Committee for considering the release of subsidy

*From MNRE/SNA/3™ Party/RTC*
AUDITED STATEMENT OF EXPENDITURE
(On the letter head of Chartered Accountant)

1. Beneficiary Name:
2. Channel partner / Manufacturer Name:
3. MNRE sanction No. & date:
4. Eligible MNRE subsidy as per sanction:
5. Advance amount released by MNRE (if applicable):
6. Project Details:

<table>
<thead>
<tr>
<th>System Size (m²)</th>
<th>Total estimated cost as per sanction (in Rupees)</th>
<th>Total actual expenditure incurred for installation of the system without AMC (in Rupees)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7. Item wise Statement of Expenditure including invoice details:

8. Total cost for Operation and Maintenance of the system for next 5 years, if any

…………………………………………………

9. Certified that an expenditure of Rs. .................... has been spent by .......................(Beneficiary name).................... for installation of solar system as given in S.No.6 above. The beneficiary has paid the ................ (Manufacturer name)................ an amount of Rs......................which is net of subsidy / including subsidy (strike which is not applicable) , and the eligible MNRE subsidy may be released to Beneficiary name / Manufacturer name (strike which is not applicable).

Certified by the Chartered Accountant
with Name, Signature, seal , Date and Membership Number
Project Completion and Performance report of the Solar Steam Generating System

1. Name of Beneficiary :

2. Name of the contact person :

3. MNRE sanction No. & Date :

4. Address of Installation site :

5. Date of commissioning of project and S. No. of the system :

6. Application : Cooking/Process heating/ Cooling

7. No. of Dishes and total Dish Area in sq. m :

8. Technology and tracking options (single/dual/manual) :

9. Type of Mirror and Status of Mirror :

10. Type of Fuel used in the existing system :

11. Beneficiaries Satisfaction : Satisfied / Not satisfied

12. Any other comments, if any :

13. Format for submitting Performance (may take additional page if necessary) :

<table>
<thead>
<tr>
<th>From Date</th>
<th>To Date</th>
<th>Number of Days</th>
<th>Average irradiation during this period (KWh/m2/day)</th>
<th>Average operating hours per day</th>
<th>Average Steam output per day (Kg/Hr). In case of hot water mention the average kCal delivered per day</th>
<th>Quantity of food cooked, in case of cooking application (Kg/day)</th>
<th>Average Fuel Saving per day (Kg/day) or (L/day)</th>
<th>Average Fuel Saving per day (Rs/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>30</td>
<td>xx-x</td>
<td>xx-x</td>
<td>xx-x</td>
<td>xx-x</td>
<td>xx-x</td>
</tr>
</tbody>
</table>

14. Performance Overview: The system performance is satisfactory/not satisfactory. On an average, system delivers steam at the rate of ........ Kg/hour and savings of ........ Kg or Litres of conventional fuel per day, benefiting a saving of Rs........ per day as compare to the proposed ............ by channel partner.

15. This is to certify that the manufacturer has successfully completed, commissioned and handed over the system on DD/MM/YYYY, and it is working satisfactorily. Beneficiary will not decommission, replace or transfer the system for next 5 years without the prior approval from MNRE. Few photographs of the system are also attached with this report.

............................... .................. ............................... .................. ............................... .................. ............................... ..................
Signature of Beneficiary with date & seal  Signature of Installer with date & seal  Signature of 3rd Party Official with date & seal
Name of the authorized person  Name of the authorized person  Name of the authorized person

Note: Beneficiary, Supplier / manufacturer will maintain the data and forward it to the Ministry on yearly basis. To Claim for the subsidy beneficiary must submit at least 15 days performance data of the System.
MANDATE FORM
Electronic Clearing Service (Credit Clearing)/ Real Time Gross Settlement (RTGS) facility for receiving payments.

A. Details of Accounts Holders:-

<table>
<thead>
<tr>
<th>Name of Account Holder</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete Contact Address</td>
<td></td>
</tr>
<tr>
<td>Telephone Number/Fax/E-mail</td>
<td></td>
</tr>
</tbody>
</table>

B. Bank Account Details:-

<table>
<thead>
<tr>
<th>Bank Name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Branch Name with Complete Address, Telephone No. and E-mail</td>
<td></td>
</tr>
<tr>
<td>Whether the Branch is computerized?</td>
<td></td>
</tr>
<tr>
<td>Whether the Branch is RTGS enabled? If yes then what is the Branch’s IFSC Code</td>
<td></td>
</tr>
<tr>
<td>Is the Branch also NEFT enabled?</td>
<td></td>
</tr>
<tr>
<td>Type of Bank Account (SB/Current/Cash Credit)</td>
<td></td>
</tr>
<tr>
<td>Complete Bank Account No. (Latest)</td>
<td></td>
</tr>
<tr>
<td>MICR Code of Bank</td>
<td></td>
</tr>
</tbody>
</table>

Date of effect:-
I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information I would not hold the use Institution responsible. I have read the option invitation letter and agree to discharge responsibility expected of me as a participant under the Scheme.

Signature of Customer

Date
Certified that the particulars furnished above are correct as per our records.

(Bank’s Stamp)

Date:
Signature of Customer

1. Please attach a photocopy of cheque along with the verification obtained from the bank.
2. In case your Bank Branch is presently not “RTGS enabled”, then upon its up gradation to “RTGS Enabled” branch, please submit the information again in the above Performa to the department.
Registration details

1. Type of Registration –
2. Agency Name –
3. Act/Registration No. –
4. Date of Registration (DD/MM/YY) –
5. Registering Authority –
6. State of Registration -
7. TIN Number –
8. TAN Number –
9. Block No./Building/Village/Name of Premises -
10. Road/Street/Post Office –
11. Area/Locality –
12. City –
13. State -
14. District -
15. Pin Code -
16. Contact Person -
17. Phone No. -
18. Alternate Phone/Mobile No.
19. Email-

(Note: Registration details of the company to whom the subsidy is to be released)
**GFR 19 – A**  
*(See Rule 212 (1))  
**Form of Utilization Certificate**

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Letter No.</th>
<th>Date</th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Certified that out of Rs. ________ of Grants-in-aid sanctioned during the years ______ in favour of ______ _______ under this Ministry/Department letter No. given in the margin and Rs. ______ on account of unspent balance of the previous year, a sum of Rs._______ has been utilized for the purpose of ______ ________ for which it was sanctioned and that the balance of Rs._________ remaining unutilized at the end of the year has been surrendered to Government (vide No. ______ dated ______) will be adjusted towards the grants-in-aid payable during the next year ________ _________.

1. Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly fulfilled/are being fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised.
1. ____________________
2. ____________________
3. ____________________
4. ____________________

Signature ________________

Designation ________________
Joint undertaking Certificate

I, __________ (Name, authorized signatory on behalf of M/s _______________ (Beneficiary) being an applicant for release of subsidy for installation/distribution of Off Grid Solar cookers/ CST applications vide Sanction no. _______________ Dated________ under scheme for Off-grid and Decentralized Solar thermal applications of the Govt. of India, MNRE, New Delhi, do hereby affirm and state as follows—

1. The CST systems of …….capacity having………collector/reflector area have been installed as per MNRE specifications.

2. The systems have been installed on net of subsidy basis and it is excluded of 5 years AMC.

3. The user has not claimed any subsidy for the installed systems under any other programs of MNRE.

4. If there is any deviation from the declaration, the Ministry can recover the released subsidy under the above sanction mentioned from M/s _____________(Beneficiary).

5. Also, the eligible MNRE subsidy of Rs. ………………………………… may be released to Beneficiary name / Manufacturer name (strike which is not applicable).

Authorized Signatory with date, Name and Seal
(Beneficiary)

Counter Signed by the Manufacturer/Channel Partner with date, Name and Seal
Format for the release of Government subsidy (CFA) by MNRE to a channel partner/beneficiaries/RESCO developer for installation of Concentrating Solar Thermal (CST) technology based system generating steam or pressurized hot water/oil

In order to claim the subsidy/ Central Financial Assistance (CFA), the applicant (channel partner/beneficiary/RESCO developer) must submit an application in the specified format given in Appendix 1 with the required documents to MNRE.

Note: The beneficiary name wherever applicable refers to the name of the institution/company where the system is installed.

In case the project was installed by a manufacturer/RESCO project developer who is not a channel partner, the application along with the necessary documents needs to be forwarded through the concerned State Nodal Agency of MNRE.

The following documents (F1–F6) must be enclosed with the application without which the application would be considered incomplete and summarily rejected.

F1. Third party inspection report

After successful commissioning of the CST system\(^1\), it must be inspected by a team of at least three members which include a representative from beneficiary, a technical representative of the Manufacturer/Installer and an official from SNA/Regional Test Centers (RTC) of MNRE or a 3rd Party directed by MNRE or official/s deputed by MNRE.

In case the project was installed by a supplier/manufacturer in RESCO mode, the system may be inspected in presence of RESCO project developer at the site by either SNA/Regional test center of MNRE/ 3rd party directed by MNRE or officials deputed by MNRE.

The inspection should normally be done within three months after the commission of the system, and based on the parameters specified in the joint inspection report (as given in Format F1). The outcome of the inspection report must be satisfactory. The system must be installed as per the technical specifications (Annexure 5 of the CST scheme).

F2. Audited Statement of Expenditure (SoE)

The audited SoE of the project must be submitted in Format F2. The audited SoE must contain the details of the total invoice cost of the system separately showing the cost of the solar collectors, Balance of System and extra charges including GST, and the total amount incurred on the system by the beneficiary. The audited SoE must be submitted in the original letterhead and certified by a Chartered accountant duly signed and date stamped clearly mentioning his registration number.

F3. Project completion and performance report with photographs

The project completion, commissioning and performance report is mandatory to claim the subsidy as it ascertains the authenticity of the project. The project completion and performance report must be submitted as per Format F3. This report also certifies the handing over, if any, between parties. Performance data for at least three months need to be submitted along with at least three photographs of the installed systems which should highlight location site and the installed systems (all photographs to be pasted neatly in A4 sheet papers). In case, if the project is more than 250 sq. m., the beneficiary/manufacturer need to provide a web link to access the performance monitoring data to MNRE.

\(^1\) Process by which the CST system is designed, installed, tested, operated and maintained to undergo a verification process to check if it functions according to its design objectives or specifications and operational requirements.
F4. Mandate form and Registration Details
To facilitate electronic mode of transfer of the subsidy amount the beneficiary/channel partner to whom the subsidy is released need to submit the bank account details in a mandate form duly completed. Mandate form must also accompany the beneficiary registration details. The format of mandate form and registration details is given as **Format 4 (A&B)**.

F5. Utilization Certificate (In case of any advance released)
In case there is any advance CFA released along with the sanction of the project, a Utilization certificate in the format as given in GFR19-A must be submitted. The copy of Utilization certificate is identified in **Format 5**.

F6. Joint undertaking Certificate
The manufacturer/ RESCO mode project developer and beneficiary will have to submit an undertaking certificate jointly signed by the two parties as given in **Format F6**.
Sample Covering letter on letter head (Beneficiary/RESCO project developer)

Date: __________________

From

XXXXXX (Beneficiary Name, Address, E-mail and phone number)

To

The Advisor,
Solar thermal Division (CST)
Ministry of New & Renewable Energy, Government of India
Block No. 14, CGO Complex,
New Delhi - 110003

Sir/Madam,

Subject: Request for release of subsidy against Sanction No. xxxxx dated xx.xx.201x for a CST project at ............... 

With reference to the above sanction number, the solar steam generating system for cooking/process heat/cooling application having xxx sq. m. collector area has been successfully installed and commissioned at xxxx (location) on xxxx (date of commission) by M/s xxxx (Manufacturer name). The installation/commissioning of the project abide to the conditions directed by MNRE in the respective sanction order. A monthly saving of Rupees ....... has been realized since the commissioning of the project.

In this regard, MNRE may kindly do the needful to release the eligible subsidy of Rs. xxxx against the verification of following enclosures.

Enclosures (√ mark the appropriate box)

1) Joint Inspection Report (F1)
2) Audited SoE in the letter head of CA (F2)
3) Project completion and performance report with photographs (F3)
4) Mandate form and Registration details (F4 – A & B)
5) Utilization Certificate (F5) (Applicable, if any Advance amount is released)
6) Joint Undertaking certificate from beneficiary and manufacturer (F6)
7) Color Photographs of the installed project duly endorsed by the Beneficiary (One of the CST field in focus condition and other of application)

Yours Sincerely,

Authorized Signature of beneficiary with date and seal: ……………………………

Name of the Authorized person with contact number: ……………………………………. 
## Third party Inspection Report Format

<table>
<thead>
<tr>
<th><strong>Beneficiary Name</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MNRE sanction No. &amp; Date</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Place of Installation</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Total Installed Area in (m²)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Manufacturer/RESCO project developer’s name with full contact details</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Date of commissioning of project</strong></td>
<td></td>
</tr>
</tbody>
</table>

Certified that the above project has been inspected by us and following has been ascertained:

<table>
<thead>
<tr>
<th><strong>S. No.</strong></th>
<th><strong>Check Details</strong></th>
<th><strong>Yes/ No/ Comments if any</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Whether the system has been installed and commissioned as per MNRE specifications?</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Is the workmanship good with proper insulation done at all required components?</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Does the mirrors comply with the solar grade quality and the supplier has given warranty/ guaranty to replace them at his own cost if found deteriorating within 5 years?</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Have the supplier/manufacturer/RESCO project developer followed all safety measures while installing the system including IBR certificate from concerned department (if required).</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Have all the solar dishes have been checked for their focuses on the receivers and it is verified that no manual adjustments (for Scheffler dishes) is required during the whole day to keep the focal spots within the receivers?</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Is there any shadows observed/expected on the dishes or from outside structure during the day time hours (9 am to 4 pm)?</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Has the performance data generated from the system for a period of at least one month (as enclosed) been studied?</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Is the system delivering the required heat output as envisaged in the proposal submitted to MNRE?</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Is the system properly integrated with pressurized vessels/boilers?</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Does the system area, number of dishes, type of axes and tracking options proposed in the project proposal matching with actual installed size? <strong>Specify the following</strong> - Area :…… m², Tracking: Single axes / dual axis / manual</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Is the beneficiary satisfied with the installation &amp; performance of the system?</td>
<td></td>
</tr>
</tbody>
</table>

Signatures with name, designation, seal and date

(Beneficiary) (Manufacturer/RESCO developer) (Third party)

*Note: For any diversion from above, necessary justifications need to be enclosed by the Review Committee for considering the release of subsidy.*
Audited statement of expenditure  
(On the letter head of Chartered Accountant)

1. Beneficiary Name : 
2. Channel partner/ Manufacturer Name : 
3. MNRE sanction No. & date : 
4. Eligible MNRE subsidy as per sanction : 
5. Advance amount released by MNRE (If applicable) : 
6. Project Details : 

<table>
<thead>
<tr>
<th>System Size (m²)</th>
<th>Total estimated cost as per sanction (₹.)</th>
<th>Total actual expenditure incurred for installation of the system without AMC (₹.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7. Item wise Statement of Expenditure including invoice details (Attested copy of invoices to be attached):
   i ........................................
   ii ......................................
   iii ....................................
   iv .....................................
   v ....................................... 

8. Total cost for Operation and Maintenance of the system for next 5 years, if any .................................................................

9. Certified that an expenditure of ₹........................ has been incurred by ................. (Beneficiary name) ................. for installation of solar CST system as given in S.No.6 above.

10. The beneficiary has paid the ............... (Manufacturer name) ............... an amount of ₹........................ (in words Rs ............... ............... ............... ) which is net of subsidy/ including subsidy (strike which is not applicable).
11. The eligible MNRE subsidy may be released to ........................................ (Beneficiary name / Manufacturer name).

Certified by the Chartered Accountant  
(With Name, Signature, Seal, Date and Membership No.)
Format F3

Completion and Performance report of the Solar Steam Generating System

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Name of Beneficiary</td>
</tr>
<tr>
<td>2</td>
<td>Name of the contact person with contact No.</td>
</tr>
<tr>
<td>3</td>
<td>MNRE sanction No. &amp; Date</td>
</tr>
<tr>
<td>4</td>
<td>Address of Installation site</td>
</tr>
<tr>
<td>5</td>
<td>Date of commissioning of project</td>
</tr>
<tr>
<td>6</td>
<td>Application</td>
</tr>
<tr>
<td>7</td>
<td>No. of Units and total collector/reflector area(m²)</td>
</tr>
<tr>
<td>8</td>
<td>Technology and tracking options (single/dual/manual)</td>
</tr>
<tr>
<td>9</td>
<td>Type and Status of Reflector/collector</td>
</tr>
<tr>
<td>10</td>
<td>Type of Fuel used in the existing system</td>
</tr>
<tr>
<td>11</td>
<td>Beneficiaries Satisfaction</td>
</tr>
<tr>
<td>12</td>
<td>Any other comments, if any</td>
</tr>
</tbody>
</table>

13. Format for submitting Performance (may take additional page if necessary):

<table>
<thead>
<tr>
<th>Date</th>
<th>Number of Days (minimum 90 days)</th>
<th>Average irradiation (DNI)</th>
<th>Average Operating hours per day</th>
<th>Average Steam output per day (In case of hot water mention the average delivered)</th>
<th>Quantity of food cooked, (in case of cooking system)</th>
<th>Average Fuel Saving per day</th>
<th>Average Fuel saving per day</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>To</td>
<td>kWh/m²/day</td>
<td>kg/hr or kCal/day</td>
<td>kg/day</td>
<td>kg/day or lit/day</td>
<td>₹./day</td>
<td></td>
</tr>
</tbody>
</table>

Note: The users will provide the performance monitoring data for at least 90 continuous days to Ministry in separate sheet, the monitoring data will include with respect to date wise number of hourly data, DNI, inlet Temp., Outlet Temp., flow rate, fuel saving, thermal efficiency etc.. Beneficiary, Supplier / manufacturer will maintain the data and forward it to the Ministry on yearly basis.

14. Performance Overview:
The system performance is satisfactory/not satisfactory. On an average, system delivers steam at the rate of ........ kg/hr and savings of ........ kg or Liters of conventional fuel per day (type of fuels), benefiting a saving of Rs. .......... per day as compare to the proposed in a proposal……………. by channel partner/RESCO project developer.

15. This is to certify that the manufacturer/ RESCO project developer has successfully completed commissioned and handed over the system on …../……/……. (DD/MM/YYYY), and it is working satisfactorily. Beneficiary will not decommission, replace or transfer the system for next 5 years without the prior approval from MNRE. Few photographs of the system are also attached with this report.

**Signatures with name, designation, seal and date**

(Beneficiary) (Manufacturer/RESCO developer) Third Party
MANDATE FORM
Electronic Clearing Service (Credit Clearing)/ Real Time Gross Settlement (RTGS) facility for receiving payments.

A. Details of Accounts Holders:

<table>
<thead>
<tr>
<th>Name of Account Holder</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete Contact Address</td>
<td></td>
</tr>
<tr>
<td>Telephone Number/Fax/E-mail</td>
<td></td>
</tr>
</tbody>
</table>

B. Bank Account Details:

<table>
<thead>
<tr>
<th>Bank Name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Branch Name with Complete Address, Telephone No. and E-mail</td>
<td></td>
</tr>
<tr>
<td>Whether the Branch is computerized?</td>
<td></td>
</tr>
<tr>
<td>Whether the Branch is RTGS enabled? If yes then what is the Branch’s IFSC Code</td>
<td></td>
</tr>
<tr>
<td>Is the Branch also NEFT enabled?</td>
<td></td>
</tr>
<tr>
<td>Type of Bank Account (SB/Current/Cash Credit)</td>
<td></td>
</tr>
<tr>
<td>Complete Bank Account No. (Latest)</td>
<td></td>
</tr>
<tr>
<td>MICR Code of Bank</td>
<td></td>
</tr>
</tbody>
</table>

Date of effect:
I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information I would not hold the use Institution responsible. I have read the option invitation letter and agree to discharge responsibility expected of me as a participant under the Scheme.

Signature of Customer

Date
Certified that the particulars furnished above are correct as per our records.

(Bank’s Stamp)

Date:
Signature of Customer

1. Please attach a photocopy of cheque along with the verification obtained from the bank.
2. In case your Bank Branch is presently not “RTGS enabled”, then upon its upgradation to “RTGS Enabled” branch, please submit the information again in the above Performa to the department.
Registration details

1. Type of Registration : 
2. Agency Name : 
3. Act/Registration No. : 
4. Date of Registration (DD/MM/YY) : 
5. Registering Authority : 
6. State of Registration : 
7. GST Number : 
8. TAN Number : 
9. Block No./Building/Village/Name of Premises : 
10. Road/Street/Post Office : 
11. Area/Locality : 
12. City : 
13. State : 
14. District : 
15. Pin Code : 
16. Contact Person : 
17. Phone No. : 
18. Alternate Phone/Mobile No. : 
19. Email : 

Signatures with name, designation, seal and date
(Note: Registration details of the company to whom the subsidy is to be released)
**GFR 12 C**

[See Rule 239]

**FORM UTILIZATION CERTIFICATE**

(For State Government)

(Where expenditure incurred by Government bodies only)

Year: ________

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Letter No. &amp; Date</th>
<th>Amount (₹/)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Certified that out of………………………………of grants sanctioned during the year .......... in favour of …………… under the Ministry / Department Letter No. given in the margin and …………….. on account of unspent balance of the previous year, a sum of …………… has been utilized for the purpose of …………… for which it was sanctioned and that the balance of ……………remaining unutilized at the end of the year has been surrendered to Government (vide No.………….. dated…………..) / will be adjusted towards the grants payable during the next year………..</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTAL

1. Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly fulfilled / are being fulfilled and that I have exercised the following checks to see that the money was actually utilized for the propose for which it was sanctioned.

2. Kinds of checks exercised

   ………………………

   ………………………

   ………………………

   ………………………

Signature of Govt.  
Auditor/Charted Accountant

Stamp:

Date:
Joint undertaking Certificate

I, _________ (Name, authorized signatory on behalf of M/s _______________ (Beneficiary/RESCO project developer) being an applicant for release of subsidy for installation/distribution of Off Grid CST applications vide Sanction No. _______________ Dated________ under scheme for Off-grid and Decentralized Solar thermal applications of the Govt. of India, MNRE, New Delhi, do hereby affirm and state as follows—

1. The CST systems of ……capacity having………collector/reflector area have been installed as per MNRE specifications.
2. The systems have been installed on net of subsidy basis and it is excluded of 5 years AMC.
3. The user/RESCO project developer has not claimed any subsidy for the installed systems under any other programs of MNRE.
4. If there is any deviation from the declaration, the Ministry can recover the released subsidy under the above sanction mentioned from M/s _____________(Beneficiary/RESCO developer).
5. Also, the eligible MNRE subsidy of Rs. …………………………………may be released to Beneficiary name / Manufacturer name/ RESCO project developer’s name (strike which is not applicable).

Authorized Signatory with date, Name and Seal
(Beneficiary)

Counter Signed by the Manufacturer/Channel Partner/RESCO developer with date, Name and Seal