

## Ministry of New and Renewable Energy

### **Jawaharlal Nehru National Solar Mission ( Scheme on Off-grid and Decentralized Solar Applications) Applicable w.e.f. 1<sup>st</sup> April, 2011**

#### **Guidelines for preparation and submission of proposals for solar thermal systems**

Channel Partners as clarified in the scheme may submit consolidated proposals to MNRE for installation of various solar thermal systems in the prescribed format as enclosed. These channel partners other than Programme Administrators need to be accredited. The methodology for accreditation is available on MNRE website [www.mnre.gov.in](http://www.mnre.gov.in). Detailed guidelines for submission of proposals are as below:

1. Financial support as per below will be available to different categories of beneficiaries:
  - i) General category states for all types of beneficiaries: **30% capital subsidy or loan at 5% interest on 80% of the benchmark cost**
  - ii) Special category states for domestic and non commercial categories (not availing accelerated depreciation): **60% capital subsidy or loan at 5% interest on 80% of the benchmark cost**. The subsidy can be availed through Programme Administrators only.
  - iii) Special category states for commercial users category (availing accelerated depreciation): **30% capital subsidy or loan at 5% interest on 80% of the benchmark cost**
2. The benchmark costs for the purpose of providing loans by Banks/FIs/IREDA will be 3.3 times of MNRE subsidy for general category and 1.65 times for special category states as available & indicated for different types of systems in the scheme.
3. System integrators, including manufacturers, and RESCOs will be accredited upto 3C Rating accorded by the Rating Agencies.
4. Proposals submitted by channel partners should be categorized by demand sectors and states or district of the location of the projects.
5. Proposals by accredited channel partners for solar water heating projects should be submitted as per the project size given below:

- Minimum size of project : 1,000 sq m.
- Maximum size of project :

Rating	Capacity (Sq. m.)
1A to 1C	25,000
2A to 2C	20,000
3A to 3C	15,000

6. Proposals by accredited channel partners for projects other than solar water heating should be submitted as per the minimum project size given below:

- Box solar cookers : 250 sq. m.
- Dish solar cookers : 250 sq. m..
- Solar air heating systems/ Driers : 100 sq. m
- Concentrating solar systems : 100 sq. m
- Any other solar system based on FPCs : 100 sq. m.

7. Proposals for projects less than the minimum size specified in 5 & 6 above can be submitted through Programme Administrators.
8. Proposals for capital subsidy by Programme Administrators or private channel partners may be submitted directly to MNRE. As regards proposals for soft loan, these may be submitted to IREDA/FIs/Banks. Format for submission of proposal is attached at Annexure-I. Private channel partners would require to submit proposal alongwith a certificate as attached at Appendix-II.
9. Proposal on solar water heating systems to be submitted to the Ministry has to be with minimum technical specifications as per the Annexure-II.

#### **10. Release of Capital Subsidy to Channel Partners**

- I. For projects by channel partners, based on sanction issued, 50% of the capital subsidy of installed systems will be released on submission of requisite documents for atleast half of the sanctioned collector area followed by release of the balance amount after completion of Third Party inspection. However, in case of a project sanctioned with an area of 10,000 sq. m. and above, this subsidy could be released on submission of documents for 25% of the systems installed against sanctioned collector area.
- II. For solar water heating systems of sizes 1000 sq. m. (50,000 lpd) and above installed at one beneficiary, entire subsidy will be released directly to beneficiaries after third party inspection. Releases for projects by Programme Administrators will be made as per the scheme provisions.
- III. The projects would require to be completed maximum in a year. A unique identification number will be engraved on solar flat plate collectors installed under the project. However, in case of ETC based system, system number may be written on the tank.
- IV. Fresh proposal could be submitted by private channel partners for equivalent amount of collector area already installed at the time of submission of documents. At any time the total number of collector area including the earlier sanctioned but not installed will not exceed the limits given at s. no. 5 above.

#### **11. List of documents to be submitted by channel partners for initial release of subsidy**

- I. Details of each system as per Annexure– III, mainly for solar cookers & solar water heating systems). This information should be displayed on the website of the channel partner and linked to MNRE website for random verification.
- II. The details of solar water heating systems ( as per Annexure – III ) will be provided in three parts. First part will contain the list of systems up to a capacity of 500 lpd (mainly domestic). For this part, information on the system with completion-cum-joint inspection report as per Annexure-IV will be collected and kept by the Channel Partners with them. These will not be sent to MNRE. Channel Partners have to Certify that they have collected all the required documents and have been kept with them and can be produced any time when required. Second part will contain the details of the systems beyond a capacity of 500 lpd but below an area of 1000 sq. m.. The third part will contain the details of the systems with collector area of

1000 sq. m. and above at one beneficiary. In case of the systems in part second and third, Channel Partners have to submit the information and completion –cum-joint inspection reports on the system as per Annexure-IV to the Ministry. In case of the projects with a collector area of 1000 sq.m. and above with one beneficiary, the bank details of beneficiaries are also to be provided for transfer of funds to their accounts by the Ministry..

**III. Joint Inspection Report** as per the Annexure-IV about the commissioning and satisfactory working of each & every system by the channel partner and beneficiary.

**IV. Certificate** as per the format attached at Annexure-V.

**V. Audited Statement of Expenditure** as per the format attached at Annexure-VI.

## **12. Documents Required for Final Release to Channel Partners:**

The following documents are to be submitted after third party verification:

- i) A letter given by channel partner that systems installed and information provided by them on the installation of the systems by them have been checked by the third party on random basis.
- ii) Satisfactory Inspection report of third party as per the format provided to them.
- iii) Certificate from third part that statements given by channel partner in the declaration are correct to the best of their knowledge and also that the details of systems put on website has been checked by them and is as per MNRE requirement

13. The Ministry may also verify the installation of systems on random basis and also check the duplicity of a system reported at a particular place of beneficiary through software under development.

14. For credit linked projects, IREDA/FIs/Banks will adopt the above mechanism for settlement of loan accounts.

15. In case any shortcomings are found as a result of the Third Party inspection, final release will be withheld until those shortcomings have been removed.

16. In case of any discrepancies, misreporting or malpractices found as a result of Third Party inspection, the concerned channel partner would be blacklisted by the Ministry/IREDA and no further projects by that entity will be entertained.

## **17. List of documents to be submitted by Programme Administrators for initial release of subsidy**

Project Proposal as per the Format attached with Appendix-I.

## **18. Documents Required for Final Release to Programme Administrators:**

As State Nodal Agencies / Programme Administrators visit and verify each and every system installed through/by them, inspection by third party is not required in such cases. The following documents are to be submitted by them for the final release:

- I Details of each system as per Annexure – VIII (mainly for solar cookers & solar water heating systems).

The details of solar water heating systems (as per Annexure – VII) is to be provided in 2 parts. First part will contain the list of systems up to a capacity of 500 lpd (mainly domestic). For this part, information on the system and completion-cum-joint inspection reports as per Annexure-IV will be collected and kept by the Programme Administrators with them. These will not be sent to MNRE. Programme Administrators have to Certify that they have collected all the required documents and have been kept with them and can be produced any time whenever required. Second part will contain the details of the systems beyond a capacity of 500 lpd. In this case, Programme Administrators have to submit the completion-cum-joint inspection report and other details as per Annexure – IV.

**II Joint Inspection Report** about the commissioning and satisfactory working of each & every system ( as per S. No. 18-I )by the Manufacturer/Programme Administrator and beneficiary as per the Annexure-IV.

**III Audited Statement** of Expenditure as per Annexure VII.

**IV Certificate** as per the format attached at Annexure-VIII.

**V Utilisation Certificate** of Funds released to the earlier, if any.

19. The Ministry may also verify the installation of systems on random basis and also check the duplicity of a system reported at a particular place of beneficiary through software under development.
20. In case of any discrepancies, misreporting or malpractices found as a result of any inspection, the subsidy provided in case of that system will be cancelled and adjusted in the subsequent releases made to the Programme Administrators.

**Format for Submitting of Project Proposals for Solar Thermal Systems/ Devices**

1. Title of the Project
2. Name & address of the Project Proponent
3. Benefits of the proposed project:

**PART-A: Details of the Project Proponent**

I	<p>Category of Project Proponent (as per scheme)</p> <ol style="list-style-type: none"> <li>a) Renewable Energy Service Providing Company (RESCO)</li> <li>b) Financial Institutions (Banks, NBFCs, MFIs)</li> <li>c) Financial Integrator</li> <li>d) System Integrator</li> <li>e) Program Administrator</li> </ol>	
ii	Whether accredited ( details of accreditation to be provided by channel partner other than Government Body)	
iii	Name, Designation and Address of the Authorized Representative for correspondence with telephone no, fax & email	
iv	<p>In case of Channel Partner other than Programme Administrator/ Bank/FI, the following information will be provided:</p> <ol style="list-style-type: none"> <li>a) Whether commercial or non-commercial entity</li> <li>b) Details of solar thermal installations made during last 3 years in terms of sq. m. of collector area/ capacity &amp; turnover on that with auditor's certificate</li> <li>c) Whether MNRE has earlier sanctioned any Solar Thermal project (s) for implementation to the Project Proponent, if yes, please furnish information</li> </ol>	
V	<p>Other information from channel partner (to be filled as applicable)</p> <ol style="list-style-type: none"> <li>a) RESCOs <ul style="list-style-type: none"> <li>- Past experience in operating as RESCO/ ESCO, if any</li> <li>- Details of subsidy to be passed over to beneficiaries with a copy of MoU signed with beneficiary</li> </ul> </li> <li>b) Financial Institution <ul style="list-style-type: none"> <li>- Details of approved suppliers identified for installation of systems</li> </ul> </li> <li>c) Financial integrators <ul style="list-style-type: none"> <li>- Copy of agreement made between manufactures/ service providers, themselves &amp; financial institutions</li> </ul> </li> <li>d) System Integrator <ul style="list-style-type: none"> <li>- A certificate that beneficiaries will be charged net of MNRE subsidy towards cost of systems to be enclosed</li> </ul> </li> <li>e) Programme Administrator <ul style="list-style-type: none"> <li>- Whether Government Department, Autonomous Institution set up by Central/ State Government, State renewable Energy development agency, Public Sector Undertaking or any other e.g. reputed NGO/ Association</li> </ul> </li> </ol>	

**PART-B: Details of the Project**

1. Summary of the Proposal:
2. Details of Proposed System(s) (To be enclosed as per Annexure )
3. System-wise details of Project Beneficiaries (other than Solar Water Heating systems & Solar Cookers)

**PART C: Performance Monitoring Mechanism:**

Daily, Monthly and Annual energy savings , logging, compilation and sharing with MNRE

**PART D: Project-wise Cost and Financing Details.**

<p>A. Type of system with no/capacity &amp; collector area</p> <ul style="list-style-type: none"> <li>i. Cost of Systems Hardware</li> <li>ii. Cost of transportation and insurance</li> <li>iii. Cost of civil works and electrical works</li> <li>iv. Cost of installation and commissioning</li> <li>v. Cost of Annual Maintenance, if any</li> <li>vi. Any other cost</li> </ul> <p style="text-align: right;">Sub total</p> <p>B.</p> <p>C.</p>	
<b>Total Cost of the Project</b>	
<p>Means of Finance</p> <ul style="list-style-type: none"> <li>a) Contribution of Project Proponent</li> <li>b) Contribution of Beneficiaries</li> <li>c) Envisaged CFA from MNRE</li> <li>d) Other Source (s) of Funding (capital grant)</li> <li>e) Envisaged Soft Loan assistance, if any</li> <li>f) Whether funds are in surplus or deficiency (commitment letter from project proponent, beneficiaries, bank etc. to be enclosed)</li> </ul>	
Details of Project Revenue recurring, if any	
Project Duration	

**PART E: Operation and Maintenance Arrangements**

- Details of Operation and Maintenance Arrangements.
- Details of monitoring equipment proposed to be installed for systems with 500 sq. m. collector area and above
- Training of the O & M Personnel of the Beneficiary Organization

## **PART F: Declarations**

- (a) It is certified that I/we have read the guidelines issued by the Ministry vide 5/23/2009/P&C dated 16<sup>th</sup> June, 2010 and the related provisions/terms and conditions for availing financial support from the Ministry of New and Renewable Energy and I agree to abide by these guidelines and related terms and conditions.
- (b) I understand that failure to comply by these guidelines may result in denial of financial support by the Ministry.
- (c) I confirm that the present proposal in full or part has not been submitted / has been submitted to any other agency for seeking support (In case proposal has been submitted to any other agency or under consideration all details and a copy of the proposal must be submitted along with the present proposal).
- (d) I confirm that I will not submit the same proposal or a part thereof to any other funding agency, without prior knowledge of the Ministry of New and Renewable Energy.
- (e) I confirm that the share of project proponent/beneficiaries shall not be lower than 20% in any circumstances.
- (f) There is no duplication in the proposal and the submitted proposal is the only proposal by the proponent and to the best of my / our knowledge no other organization has submitted any proposal for the systems at these site(s) to MNRE for financial support.
- (g) A detailed site survey has been done/or will be undertaken to identify the beneficiaries before actual supply and installation takes place.

I confirm that in case of any dispute, the decision of Secretary, Ministry of New and Renewable Energy, Government of India will be final and binding on all.

**Signature \_\_\_\_\_**  
**Name & Designation of**  
**Authorized Signatory Seal**

Place:  
Date



+ Subsidy @ Rs. -----per sq. m. or 30% / 60 % of project cost as applicable for different category of states & applicants whichever is less

\* Only those systems will be eligible for subsidy which have BIS/MNRE standards/ specifications or have approval from test centers of MNRE. Other systems may also be considered if technical/performance specifications of system provided are submitted by channel partner alongwith mechanism for checking the performance & technical specifications of his systems to prove to the inspection committee that his system is installed as per specifications.

\*\* For **Solar Cookers** only area of operation/implementation ( State-wise/ district-wise ) may be mentioned. As regard Solar Water Heating Systems, capacity-wise systems proposed to be installed in different states/districts indicating approximate cost and expected reduction in following year will be provided as per below: & Solar Cookers. For **solar air heating and steam systems**, detailed proposals will be submitted as per enclosed format. Also, if proposals are coming from manufacturers/RESCOs, they will submit the list of systems installed in last 5 years with date of installation and present status of functionality & fuel saved since inception..

Details for SWHs

Sr. No.	FPC based system						ETC based system					
	Capacity in LPD	No. of Systems	Collector area	Total cost ^ including AMC & other cost, if any	Cost/sq.m. (Appx.)	Expected cost reduction in 2012-13 (per sq. m.)	Capacity in LPD	No. of Systems	Collector area	Total cost ^ including AMC & other cost, if any	Cost/sq.m. (Appx.)	Expected cost reduction in 2012-13 (per sq. m.)
1												
2												
3												
4												

^ The beneficiaries will, however, be charged net of subsidy

This is to certify that the various components of the Solar Thermal System (s) conform to the Relevant Standards, as mentioned in the Guidelines for Off-grid and Decentralized Solar Applications for Solar Collectors and components under JNNSM. Copies of the Relevant BIS/MNRE Certificates/specifications should be enclosed.

Note: It is mandatory to provide technical performance specifications of each component of the system(s) to be installed under the project and for which the performance will be warranted. All technical parameters and warranty requirements must meet or exceed the requirements mentioned in the guidelines issued by the Ministry.

**(Signature & Seal of Channel partner)  
as Head of Organization**

**CERTIFICATE**  
(On Channel Partner's Letter Head)

Certified that

- i) All the systems (mainly solar cookers & solar water heating systems) will be installed at net of subsidy (actual cost-capital subsidy) and beneficiaries will be informed about correct amount of subsidy available from MNRE
- ii) 5 years guarantee will be provided for satisfactory performance of proposed systems
- iii) There will be no duplication of the systems with those installed earlier by us and also with those installed by other channel partners.
- iv) The project has not been submitted and will also be not submitted in future to any other agency for availing capital subsidy or soft loan from IREDA/Banks/FIs
- v) Details of each and every system installed will be displayed on the website of Company and linked to MNRE website for random verification. This includes name, address, phone no., e-mail addresses, photograph of beneficiary; capacity, type of system, place & date of installation; installed cost & AMC etc
- vi) An unique identification number will be engraved on solar collectors and indicated alongwith the above details.
- vii) All the systems will be installed as per BIS/ MNRE standards/ specifications/approval, and will be inspected by the officials of the Company after installation.

Name & Signature of Head of Company/Organization with seal

## Minimum Requirements for installation of Solar Water Heating Systems in Field

The FPC based systems will be from BIS approved manufacturers and ETC/ Heat pipe based systems from MNRE approved manufacturers/suppliers. The Systems will have the following minimum requirements for installation under subsidy/ soft loan scheme of MNRE:

### General Requirements

- i) System installed in high windy area will be well grouted/ clamped with collectors installed in a way that it is able to sustain the highest wind pressure of that area.
- ii) All the collectors will be south facing inclined at suitable angle to give best performance in winter
- iii) There will not be any shadow falling on the collectors from nearby structures or of other collectors in front or back row
- iv) Hot water pipe lines of any kind in colder regions will be fully insulated from the point of drawl of water from tank to delivery points. In other regions also care will be taken to avoid heat losses from pipelines.
- v) System will be installed nearest to the point of hot water usage to avoid longer pipeline & higher heat losses.
- vi) Where water quality is bad either FPC based systems with Heat Exchanger or ETC based systems will be installed.
- vii) The workmanship & aesthetics of the system will be good and it should be visible to anybody
- viii) Air vent pipe, make up water and cold water tanks will be installed as required for smooth functioning of the system
- ix) There won't be any leakage observed in the system from tanks/ collectors/ pipelines
- x) No electric back up will be provided in hot water storage tank at places where electric geysers are already installed. At places where electric geysers are not installed, electric back up could be provided in upper portion of storage tank, if necessary. Other option is to have an instant/ small geyser in bathroom with outlet of solar hot water storage tank connected to its inlet and thermostat set at say 40 C. This will help consuming less amount of electricity during non-sunny days.

### Technical Requirements

**Flat Plate Collectors** : **ISI mark (2 sq. m. absorber area for 100 liter tank capacity system in colder region and 125 liter for other regions)**

### Evacuated Tube Collectors/ Heat pipes

Type of tubes	3 layer solar selective (Inner layer of copper coating should be visible). Detailed specifications of tubes will be as per the guidelines laid down by MNRE for empanelment of manufacturers of ETC based systems & made available at MNRE website
No. of tubes/ Absorber Area	<p>1.50 sq. m. of absorber area for 100 liter tank capacity system. Absorber area will be calculated as follows:</p> <p>Area in Sq. Meter = 3.14 X No. of tubes X Radius in Meter X Length in Meter.</p> <p>Accordingly, 14 tubes of Dia : 47 mm &amp; length : 1500 mm and 10 tubes of Dia 58 mm &amp; length : 1800 mm will be required for each 100 lpd system. For higher capacity systems, the no. of tubes</p>

calculated as per above could be slightly less. However, the minimum absorber area will not be less than that given in MNRE Cicuklar No. 22/5/2009-10/ ST dated 02-03-2010.

Procurement : From reputed supplier (Details of supplier to be provided)

**Storage Tanks, Piping, Support structure etc ( To be all indigenous & not imported)**

- Inner tank material : SS 304 or 316 grade min/ MS or any other material with anticorrosive coating for hard water with chlorine contents.
- Inner tank thickness : For SS minimum thickness will be 0.5 mm when using argon arc or metal inert gas for welding & 0.8 mm when using other type of welding. For MS it will be 1.5 mm. No leakage under any kind of negative or positive pressure of water will be ensured.
- Inner tank welding : TIG / Seam/ pressurized weld (Open arc weld not permitted )
- Storage tank capacity : Not less than system capacity. In case of ETC based system, volume of tubes & manifold not to be included in tank capacity.
- Thermal insulation of storage tanks : Minimum 50 mm thick CFC free PUF having density of 28-32 kg/ cu.m for domestic systems and 100mm thick Rockwool of 48 kg per cu. m for other systems. For colder regions, it will be 1 ½ times atleast. In case of higher density insulations, the thickness may reduce proportionately.
- Thermal insulation of hot water pipes : Minimum 50 mm thick rockwool or 25 mm thick PUF on GI pipes. For colder regions, it will be 1 ½ times atleast. In case of composite pipes, it will depend on region to region. For higher density insulations, the thickness may reduce proportionately.
- Outer cladding & Frames : Al/ FRP or GI powder coated. MS may also be used with special anti-corrosive protective coatings. Thickness of sheets will be strong enough to avoid any deformation of the cladding.
- Valves, cold water tank, vent pipe, heat exchanger, make up tank & instruments : Of ISI mark or standard make
- Support structure for Collectors, piping, tanks etc : Of non corrosive material or have corrosion resistant protective coating. They will be strong enough to sustain their pressure during the lifetime of system.

An undertaking will be given by the manufacturer/supplier confirming to above requirements while submitting proposals to MNRE/SNAs or claiming subsidy. The manufacturer will also provide the detailed specifications of each and every part of his system to the beneficiary alongwith O&M Manual. In case any manufacturer/supplier is found not sticking to above requirements, his name will be removed from MNRE list. These requirement will also be put on MNRE website for the knowledge of beneficiaries and other stakeholders. Salient features of the system will also be highlighted on a plate fixed on front surface of the tank alongwith name of manufacturer/ dealer & his contact No.

**Note: Beneficiaries of systems may contact MNRE at following address if manufacturers/ dealers are not sticking to above requirements.**

**Government of India  
Ministry of New & Renewable Energy  
B-14, CGO Complex, Lodi Road, New Delhi-110003**

**Format for submission of details of systems installed**

Channel partner :

MNRE sanction No. &amp; date :

Type of solar thermal system :

Sr. No.	Beneficiary's name, address, phone/ mobile no. & e-mail addresses*	Capacity	Type	Date of installation	Engraved nos. of collectors	Total Cost	Eligible subsidy	Installed cost of system (Net of Subsidy)	Photograph of beneficiary

- Must be complete in all respect without which the claims may not be considered for release

Name &amp; Signature of Head of Company/Organization with seal

Certified by the Chartered Accountant with seal

## Commissioning-Cum-Joint Inspection Report

This is to certify that the system with the following details has been inspected by us on -----  
and was found working satisfactorily.

1.	Name of Beneficiary with complete postal address, telephone, fax number and e-mail address etc.	:	
2.	Details of Registration in case of Institutions/ Organisations /Commercial establishment (Registration No. where registered etc.)	:	
3.	Whether profit making / Non-profit making	:	
4.	Place of installation of the system	:	
5.	System capacity in LPD and sq.m. of collector area	:	
6.	Type of system installed (FPC/ETC based natural/forced circulation)	:	
7.	In case of ETC, Provide (a) Size of Tube (b) No. of Tubes in one collector (c) Total No. of Collectors provided		
8.	Date of commissioning of the system	:	
9.	Name of BIS/MNRE approved manufacturer/supplier with complete address, phone no. etc.	:	
10.	Present utility of hot water	:	
11.	Expected amount of fuel saving per year	:	
12.	Total expenditure incurred on the system (Audited statement of expenditure to be enclosed)	:	
13.	Amount of the capital subsidy sought from MNRE	:	
14.	Certified that we have not availed any soft loan under MNRE interest subsidy scheme from any of the banks/FIs and will also not be availing that in future for the above system. We have also not availed any capital subsidy on this system earlier from MBRE till date.		

Date .....

**Signature with Name and Seal of  
Authorised Signatory of Manufacturer**

**Signature with name and Seal of  
Head of of beneficiary organisation**

**Signature of Nodal Agency / Programme Administrator**

**CERTIFICATE**

**( On the Letter Head of Channel Partner )**

- i) All the systems have actually been installed as per BIS/ MNRE standards/ specifications/approval with minimum requirements followed (as enclosed), and they have been inspected by the channel partner after their installation.
- ii) All the systems (mainly solar cookers and solar water heating systems) have been installed net of subsidy and that five years performance guarantee has been provided for satisfactory performance of all the systems.
- iii) There is no duplication of the systems installed by them earlier and also with those installed by other channel partners.
- iv) Capital subsidy for installed systems has not been claimed or will be claimed in future from any other agency. Soft loan will also be not availed from IREDA/Banks/FIs
- v) The details of systems installed as required has been put on our website and is linked with MNRE website. The link of website is -----.
- vi) All the above systems/ devices have been inspected by us and the beneficiaries are satisfied with their performance. Individual certificates signed by the beneficiaries for solar cookers and solar water heating systems of capacity up to 500 lpd have been kept with us and for others are submitted separately to MNRE

**Audited Statement of Expenditure**  
**( On the letter head of Chartered Accountant)**

Channel partner :

MNRE sanction No. &date :

Type of solar thermal system : Solar Water Heaters / Solar Cokers

<b>Capacity</b>	<b>NOs.</b>	<b>Type of system</b>	<b>Total installed cost including subsidy</b>

Certified that an expenditure of Rs.----- has been incurred by -----for installation of above systems/ devices as per enclosed list (Annexure-IV). This includes government subsidy and AMC, if any.

Name & Signature of Head of Company/Organization with seal

Certified by the Chartered Accountant with seal,

Date and Membership Number

**Format for submission of details of systems installed**

State Nodal Agencies / Programme Administrator :

MNRE sanction No. &amp; date :

Type of solar thermal system : Solar Water Heating Systems or Solar Cookers

Sr. No.	Beneficiary's name, address, phone/mobile no. & e-mail addresses*	Capacity (lpd)	Area Sq.m.	Date of installation	Engraved nos. of collectors	Total Cost	MNRE CFA	Service Charges	Total MNRE Share

- Must be complete in all respect without which the claims may not be considered for release

**Name & Signature of Head of Nodal Agency/Programme Administrator****Certified by the Chartered Accountant with seal,****Date and Membership Number**

**On the Letter Head of Programme Administrator**

**Certificate to be Submitted by Programme Administrator / Nodal Agency  
for Claiming Final Release**

- (i) All the systems have actually been installed as per BIS/ MNRE standards/ specifications/approval with minimum requirements followed (as enclosed), and they have been inspected by their officers after their installation.
- (ii) Five years performance guarantee has been provided for satisfactory performance for all the systems.
- (iii) There is no duplication of the systems installed through them earlier.
- (iv) Capital subsidy for installed systems has not been claimed and will also not be claimed in future and Soft loan has also not been availed from IREDA/Banks/FIs.
- (v) All the above systems/ devices have been inspected by us and the beneficiaries are satisfied with their performance. Individual certificates signed by the beneficiaries for solar cookers and solar water heating systems of capacity up to 500 lpd have been kept with us and for others are submitted separately to MNRE

**Name & Signature of Head of Nodal Agency**

**Format for submission of project proposal for installation of solar steam/ air heating systems**

1.	Name of establishment with complete postal address, telephone, fax number and e-mail address for correspondence purpose.	:	
2.	Purpose for which the solar system is to be installed	:	For air heating/ steam generation/ oil heating
3.	Ultimate application of hot air/steam generated from solar system	:	
4.	Details of existing system for required application	:	
5.	Present fuel consumption per year	:	
6.	Details of system proposed to be installed at beneficiary's premises	:	
	i) Place of installation		
	ii) Type of system proposed (FPC based air heating/ solar concentrating system)	:	
	iii) Dish/Collector area to be installed (sq.m) and type of collectors proposed to be installed	:	
	iv) Total land area required for installation of the system (sq. m)	:	
	v) Shade free area available at the premises from 9 AM to 5 PM (sq. m)	:	
7.	Name and address of supplier identified for installation of the system	:	
8.	Details of the project report prepared by the identified supplier (Report will include the technical specifications of various components and their life period)	:	To be enclosed alongwith supplier's past experience on such system, if any
9.	Expected outcome from proposed installation in terms of fuel savings & heat delivery with detailed energy calculations.		

10.	Item wise budget break up ( including AMC for 5 years )		
11.	MNES support sought as per the scheme provisions		
12.	Proposed means of balance financing		
13.	Commitments from the beneficiary <ul style="list-style-type: none"> <li>➤ We will bear the remaining cost (apart from the MNRE support) as per details in para 12 above.</li> <li>➤ We will not dismantle the system at any stage without prior written permission of MNRE</li> <li>➤ We will regularly use and properly maintain the system and submit quarterly performance report for a minimum period of one year from the date of installation through implementing agency.</li> <li>➤ We will take Annual Maintenance contract for a period of at least 5 years after completion of the warranty period from manufacturers.</li> </ul>		

Date .....

Signature with name and Seal of  
Head of beneficiary organization

