

**No. 5 /3 / 2013-14/ST  
Government of India  
Ministry of New and Renewable Energy**

**Block NO. 14, CGO Complex,  
Lodi Road, New Delhi-110 003**

Dated: 19<sup>th</sup> August, 2013

To,

Heads of State Nodal Agencies and  
Municipal Commissioners  
State Urban Development Departments

Sub.: Scheme on “**Energy Efficient Solar/ Green Buildings**” for implementation during 2013-14 and rest of the 12<sup>th</sup> Five year Plan period.

Sir/ Madam,

In continuation of this Ministry's Administrative Approvals vide No.3/5/2008-UICA (SE) dated 5<sup>th</sup> February, 2009, 28<sup>th</sup> July 2009 and 21<sup>st</sup> July, 2011, I am directed to convey the sanction of the President, Government of India for modified Scheme on “**Energy Efficient Solar/ Green Buildings**” for implementation during 2013-14 and rest of the 12<sup>th</sup> Plan as per the details given below:

### **1.0 Objective**

The main objective of the scheme is to promote the widespread construction of energy efficient solar/ green buildings in the country through a combination of financial and promotional incentives, and other support measures so as to save a substantial amount of electricity and other fossil fuels apart from having peak load shavings in cities and towns.

The objective will be achieved by providing promotional incentives for the construction of green buildings for creating awareness by organizing workshops, seminars and trainings for engineers, planners, builders, architects, consultants, housing financing organizations and potential users and besides, for development of technical literature, compilation and publishing of documents related to solar/ green buildings and installation of renewable energy projects/systems in the green buildings.

### **2.0 Budgetary Allocation**

The total budget of Rs. 10.00 crore has been allocated for implementation of the scheme during the year 2013-14 and rest of the 12<sup>th</sup> Plan period. This also includes meeting the pending liabilities.

### **3.0 Implementation Arrangement**

The scheme will be implemented through State Nodal Agencies/ Municipal Corporations/ Govt. Bodies / reputed NGOs, technical institutions, professionals consultants etc. The Guidelines for implementation of the scheme and financial provisions for various activities are given in the **Annexure**.

### **4.0 Monitoring Mechanism**

The Implementing Agencies will set up arrangements to closely monitor the implementation of their projects covered under the scheme. The agencies will furnish

progress reports and other information to MNRE on a regular basis. In addition, Regional Offices of MNRE will be involved in monitoring the implementation and performance of the projects/systems. The progress of the scheme will also be monitored by the Ministry independently, including third party inspection and reporting.

## 5.0 Expenditure

An expenditure of **Rs.10.00 Crore** is estimated to be incurred under the activity on “Energy efficient solar/ green buildings” during 2013-14 and rest of the 12<sup>th</sup> Plan period commensurate with the budgetary allocation. For the year 2013 – 14 the expenditure will be debit to Demand No. 69; Major Head: 2810- New & Renewable Energy; 103 Renewable Energy for Urban, Industrial & Commercial Applications; 01-ST, SPV & Other RE Systems; 01-Renewable Energy Applications; 33-Subsidy during the year 2013-14(Plan) in which an allocation of Rs.20.90 crore has been made for 2013-14 of which Rs. 2.00 crore has been earmarked for 2013-14 for the “Energy efficient solar/ green buildings” programme.

**6.0** This issues in exercise of delegated powers to this Ministry and with concurrence of IFD dated 14.08.2013 vide no. IFD/946/2013-14 dated 29.07.2013.

Yours faithfully,



(Arun K. Tripathi)  
Scientist 'F'

Copy for information and necessary action to:

1. Director of Audit, Scientific Audit-II, DACR Building. I.P. Estate, N.D -110002
2. The Principal Director (Local Bodies Accounts) or Director (Local Bodies), Office of the Comptroller and Auditor General of India, 9 Deen Dayal Upadhyaya Marg, New Delhi – 110 002
3. Director General, Bureau of Energy Efficiency, 4<sup>th</sup> Floor, Sewa Bhawan, R.K.Puram, New Delhi-110066
4. Director General, Bureau of Indian Standards, Manak Bhawan, 9, Bahadur Shah Zafar Marg, New Delhi-110002
5. PPS to Secretary, Ministry of Urban Development
6. Director General, CPWD, Nirman Bhawan, New Delhi
7. All concerned Departments/Ministries/Institutions/organisations
8. PS to Minister/PSO to Secretary, MNRE
9. JS (TK)/+9All Group Heads
10. JS & FA / DS (F) / US (F) /Sci B (HCB)/AO(F) / SO(F)
11. Cash Section & PAO,MNRE
12. Sanction folder
13. IREDA/ CWET/ NIRE/SEC/SECI
14. NIC Cell MNRE for the Website

## **Guidelines for Implementation of Energy Efficient Solar/Green Building Scheme**

### **1.0 Background**

Energy efficient solar buildings are constructed based on the techniques of solar passive design with a view to provide comfortable living and working conditions, both in winter and in summer. These buildings can be integrated with renewable energy and energy conservation devices and systems and can save over 30 to 40 % of conventional energy that is used for lighting, air conditioning (HVAC). Such buildings have been tried out in a few States as a result of the initiatives taken by the Ministry. Finding the concept of solar buildings useful, the state governments of Himachal Pradesh, Punjab, Haryana and Nagaland have already made it mandatory to construct all new buildings in government & public sectors on this concept. Necessary G.O.s have been issued and the development authorities have been asked to approve building plans for construction only if the designs incorporating solar passive features are certified by approved architects or the experts. A number of experts/architects are presently involved in the country in practicing energy efficient solar buildings. Bureau of Energy Efficiency (BEE) have introduced Energy Conservation Building Code (ECBC) which includes energy efficient design features. National Building Codes have also been developed by the Bureau of Indian Standards (BIS) which incorporates some of the concepts of energy efficient solar buildings. Sufficient literature/publications are also available for design of such buildings. The BIS has prepared a chapter on Sustainability as a part of National Building Code to promote Green Building construction in the Country.

Efforts are now being made to construct Green Buildings all over the country which not only take care of energy conservation but also look into water and waste management, environmental impact, minimum destruction of natural resources and various other aspects in an integrated way. Building Rating Systems have been quite effective in raising awareness and popularizing energy efficient and green building design. Most of the internationally devised rating systems have been tailored to suit the building sector of the country where they were developed. At present LEED India (Leadership in Energy and Environmental Design) Rating System by Indian Green Building Council (IGBC), Green Rating for Integrated Habitat Assessment-GRIHA by TERI/ADaRSH, ECHO Housing by IIEC etc. are being promoted in the country by respective agencies.

The Ministry aims to promote the green building principles & concept with emphasis on the renewable energy application in the green buildings among the stakeholders through a combination of promotional incentives and support majors in the country.

### **2.0 Financial Provisions**

The scheme provides for the financial incentives to carry out the following promotional activities to promote the construction of Green Buildings in the country.

#### **(i) Incentives for Capacity Building and Awareness Activities**

A financial support of up to Rs. 2.00 lakh for 1-2 days and Rs. 3.0 lakhs for three days activity could be provided for organizing training programmes, workshops, conferences, seminars, publications, awareness campaigns, and orientation programmes etc. to the implementing agencies. However, for International

Conferences/exhibitions/workshops the financial supports upto Rs. 5.0 lakh may be considered based on merit. The trainings should also cover the onsite training on specific techniques and technologies related to green buildings.

#### **(ii) Awards to Urban Local bodies(ULBs)**

The onetime cash award of Rs. 10 lakh along with a shield will be given to best 3 ULBs per year selected through competition for adopting and promoting the energy efficient solar/green buildings to be rated under the rating system in vogue i.e., GRIHA, LEED India etc. or for following ECBC building Code subject to the following :

- They have issued a notification for promotion of green buildings with some incentives i.e., rebate on property tax, discount in premium amount of building permission charges etc.
- They have amended the bye-laws for making the solar water heaters, and SPV rooftops plants to the extent possible, necessary for the new building projects.
- Any other substantial rules/regulations which encourage the adoption of Green buildings in the city.

#### **(iii) Awards to the Green Building having maximum RE installations.**

The cash award of Rs. 15 lakh 10 lakh and 5 lakh along with a shield will be given to best 3 buildings per year that have the maximum installation of renewable energy systems and the net Zero energy based buildings in the country.

**A Committee consisting of experts in the green building field, renowned institution may be formed for taking decisions on the awards.**

#### **(iv) Incentive to Architects/ Design Consultants**

Cash awards to best 3 architects /design consultants of Rs. 5 lakh, 3 lakh and 2 lakh along-with certificates of appreciation will be given per year subject to that the building has acquired the highest ratings available in the any Green Building Rating System in vogue or ECBC compliant for the building designed by them. The awards to given those Architect/Design Consultant whose buildings have been completed.

The distribution of awards may be organized through some reputed and expert technical Institutions. The appropriate service charges to the identified institutions will be provided on merit.

#### **(viii) Other activities**

- a) Funds will be provided for other activities to promote energy efficient solar/green buildings in the country. These activities may include: development of web based tools, short films on best practices, literature on green buildings, FAQs on MNRE website, course contents as part of curriculum, training modules, e-learning modules, organizing specific groups to initiate changes in National Building Code, support to architectural magazines to bring out special features on green buildings, evaluation studies, R&D activities, lecture series orientation programmes, and related activities. The funds for any other activities including the events and activities to be organized by MNRE as felt necessary may also be considered on merit. The provision of funds will depend on case to case basis and on merit.

- b) Preparation of guidelines on promotion of green buildings with emphasis on renewable energy application, bye-laws to support green building construction by State Government/UTs/State Nodal Agency/Municipal Corporations/ULBs.
- c) **Retrofittings** of renewable energy and energy efficiency systems in green buildings will also be promoted in the existing buildings to make them green buildings to the extent possible. The Ministry may constitute a working group / committee at National level to bring out guidelines in this regard.
- d) The **monitoring and assessment** of the performance will be made through some expert institutions for those buildings for which the registration-cum-rating fees has been provided by Ministry to GRIHA Secretariat in the past.
- e) To carry out/conduct some case studies for green buildings rated under GRIHA, LEED India and other prevalent rating systems and assessment of their performance. The findings of the studies will be published in the form of reports and will be disseminated among the appropriate intuitions and individuals. The financial support for publication through reputed publishers to make them available at low cost to the users may be considered on merit.
- f) Popular literatures/books on green buildings and retrofittings with renewable energy and energy efficiency interventions will be prepared and published. The existing and developed materials will be uploaded in MNRE's website. One Committee may be formed for evaluation of this study material before publication.

#### **(ix) Incentives for Renewable Energy Projects installations**

The proposals on RE systems including SPV installations, SWH, waste to energy projects, biogas generation projects etc. or any other innovative RE related projects in the Energy Efficient Solar/Green buildings may be considered under the Scheme as per available incentives under various MNRE's schemes.

#### **3.0 Submission of proposals & Release of funds:**

The proposals could be generated by SNAs/ Municipal Corporations/ Govt. bodies/ Reputed NGOs, Professionals, Educational Institutions, Urban Local Bodies, Consultants, Institutions promoting the green building rating systems etc. and submitted to MNRE. The appropriate prescribed format (**Appendix 1**) should be used for submission of proposal for capacity building and awareness activities. For other activities the detailed proposal along with justification and cost breakup should be submitted.

To avail the incentive for RE installations in green buildings, the concerned organizations will submit the proposal to the Ministry in accordance with the various schemes of the Ministry.

To avail the incentive about the awards, the Municipal corporations/ Municipalities/ Urban Local Bodies will submit an application to the Ministry alongwith the details of notifications / orders announcing rebate in property tax for energy efficient solar buildings, mandatory provisions of renewable energy applications, details of promotional activities planned etc.

#### **4.0 Release of Funds**

The funds will be released commensurate with the progress. Release will be made in two parts, (i) the 1<sup>st</sup> installment of 40% at the time of sanction and (ii) rest on progressive achievements/ completion of the activities with detailed reports and utilization certificates/SOE received in the Ministry (**Appendix II & III**). To NGOs/private bodies, the funds will be released on reimbursement basis or based on the of the bond/bank guarantee submitted to the Ministry as per Rules. The funds will be released through ECS for which the details should be provided along with the proposal.

**Format for submission of proposals for organizing seminars/ symposia/ workshops/ training programmes etc.**

1. \*Details of Institution organizing the event (name, address, email phone etc.) :
2. Background, expertise and relevant experience of the Institution for the proposed activity/event :
3. Type and title of event to be organized :
4. Date(s)/ venue of the event :
5. Category and expected No. of participants :
6. Tentative programme with topics to be covered (copy to be enclosed) :
7. Budget break up (item-wise) (Details of expected sponsors, participation fee, other source of funds to be given) :
8. Expected outcome :
9. Any other relevant information :

**Signature with name & seal of Head of implementing organization**

**Format for submission of proposals for organizing publicity and awareness campaign/ publication of documents**

1. \*Name of Institution organizing the activity :
2. Type of activity to be organized :
3. Details of activities to be organized :
4. Budget break up (item-wise; supporting documents for arriving at the figures to be provided) :
5. Expected outcome :
6. Any other relevant information :

**Signature with name & and seal of Head of Implementing organization**

\* Only registered organizations will be eligible. The copy of registration certificate and MOA should also be attached.

**Statement of Expenditure**

1. Name of implementing organization :
2. Type of activity/ event sanctioned :
3. MNRE sanction No. & Date :
4. Amount released by MNRE :
5. Item-wise Statement of Expenditure :

(In Rupees)

<b>Sr. No.</b>	<b>Item</b>	<b>Amount sanctioned</b>	<b>Expenditure incurred</b>
1.			
2.			
3.			
	<b>Total</b>		

6. Balance to be released/returned :
7. Report on the activity/event (to be enclosed) :

**(Signature of  
Account Officer  
with seal)**

**(Signature of Head of  
Implementing organization  
with seal)**

**(Signature and seal  
of the Auditor)**



**Appendix-III**

GFR 19-A  
[ See Rule 212 (1) ]  
Form of Utilization Certificate

Sl. No.	Letter No. and date	Amount
	Total	

Certified that out of Rs.....of grants-in-aid sanctioned during the year..... 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.....

2. 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.
- 5.

Signature.....  
Name.....  
Designation.....  
Date .....  
Seal.....

**Organization / Agency Details**

<b>S.NO</b>	<b>Particulars</b>	<b>Details</b>
	Type of Registration	
	Agency Name	
	Act / Registration No. /Date	
	Registration Authority	
	State of Registration	
	Block No./Building/Village/Name of Premises	
	Road/Street/Post Office	
	Area / Locality	
	City	
	State	
	District	
	Pin Code	
	Contact Person	
	Phone No.	
	Alternate Phone / Mobile No.	
	E-Mail	
	Unique Agency Code (Minimum 4 and Maximum 15 characters)	
	<b><u>With account details:</u></b>	
	Name of Bank	
	MICR CODE No.	
	IFSC/RTGS CODE	
	Type of Account	
	Account No.	
	Bank Branch Address	

**Or**

The organization, may also register their agency details in the website [www.cpsms.nic.in](http://www.cpsms.nic.in) . The information that the registration has been done may be sent to this Ministry so that financial assistance could be released if approved.

**MANDATE FORM****ELECTRONIC CLEARING SERVICE (CREDIT CLEARING)/REAL TIME GROSS SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS**

....

## A. DETAIL OF ACCOUNT HOLDER:-

NAME OF ACCOUNT HOLDER	
COMPLETE CONTACT ADDRESS	
TELEPHONE NUMBER/FAX/EMAIL	

## B. BANK ACCOUNT DETAILS:-

BANK NAME	
BRANCH NAME WITH COMPLETE ADDRESS, TELEPHONE NUMBER AND EMAIL	
WHETHER THE BRANCH IS COMPUTERISED?	
WHETHER THE BRANCH IS RTGS ENABLED? IF YES, THEN WHAT IS THE BRANCH'S <b>IFSC CODE</b>	
IS THE BRANCH ALSO NEFT ENABLED?	
TYPE OF BANK ACCOUNT (SB/CURRENT/CASH CREDIT )	
COMPLETE BANK ACCOUNT NUMBER (LATEST)	
MICR CODE OF BANK	

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 user 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)

(.....)

Signature of Customer

Date:

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 proforma to the Department at earliest.