

F.No.14 /47/2017-WTE
Government of India
Ministry of New and Renewable Energy
(Waste to Energy Division)

Block No.14, CGO Complex,
Lodi Road, New Delhi -110 003.
Dated the 18th May, 2017

To,

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

Subject: Continuation of Programme on Energy from Urban, Industrial and Agricultural Wastes / Residues beyond 12th plan period (2012-17) till 30th September, 2017.

Sir,

I am directed to refer to OM No. 10/1/2013-U&I, dated 12th September, 2013 and corrigendum issued on 21.06.2016 of above mentioned scheme and to convey the sanction of the Government of India for the continuation of the **Programme on Energy from Urban, Industrial and Agricultural Wastes / Residues with same terms and conditions and without creation of any new posts** till 30th September, 2017. The details of the programme component, implementation methodology, financial assistance, release of funds and monitoring mechanism are as per OM No.10 /1/2013-U&I dated 12.09.2013 and Corrigendum No.10 /1/2013-U&I dated 21.06.2016 as per Annexure-I attached to this sanction.

2 Each proposal will be examined and concurred by Integrated Finance Division of the Ministry, on case to case basis.

3 The expenditure on this scheme will be met from the budget provisions given below the year 2017-18:

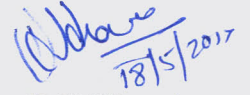
<u>Description</u>	<u>Allocated Amount</u>
'2810' The Expenditure is debit to Demand No.67, Ministry of New and Renewable Energy, Major Head '2810' New and Renewable Energy, 00-101 – Grid Interactive and Distributed Renewable Power 01 – Grid Interactive Renewable Power 03 – Bio Power 01.03.33 Subsidy	Rs.15.00 crore
02- Off Grid / Distributed Renewable Power 03 Bio Power 02.02.31 GIA 02.03.35 Subsidy	Rs. 0.50 crore Rs. 14.50 crore
Total	Rs. 30.00 crore

W. D. Chavhan
18/5/2017

Contd./....

4. This issues in exercise of the powers conferred on this Ministry and with the concurrence of IFD Division vide their diary No 73/2017-18, dated 28.04.2017

Yours faithfully,



(Dr. D K Khare)
Director

Copy to:

- i) All Heads of State Nodal Departments / Agencies.
- ii) JS & FA, MNRE.
- iii) All Groups Heads.
- iv) PS to Minister (NRE).
- v) JS (Admn.)/ Dir.(P&C)/ Dy. Sec.(F)/COA./US(F).
- vi) PSO to Secretary, MNRE.
- vii) PAO/Cash Section, MNRE.
- viii) Director of Audit (C.W. & M), Special Cell, New Delhi.
- ix) Guard file.

**DETAILS OF PROGRAMME ON ENERGY FROM URBAN, INDUSTRIAL
AND AGRICULTURAL WASTES/RESIDUES
BEYOND 12th PLAN PERIOD (2012-17) till 30th September, 2017**

1.0 Objective

The main objectives of the Programme are as follows:

To promote setting up of projects for recovery of energy from urban, industrial and agricultural wastes; and

To create conducive conditions and environment, with fiscal and financial regime, to develop, demonstrate and disseminate utilization of wastes and residues for recovery of energy.

2.0 Scope

The scheme provides for Central Financial Assistance in the form of capital subsidy and Grants-in-Aid in respect of the following activities :

- i) Setting up of five pilot projects based on Municipal Solid Waste.
- ii) Biogas production from Industrial waste.
- iii) Power generation or production of bio-CNG from biogas produced from sewage and industrial wastes or from Urban and Agricultural wastes through biomethanation.
- iv) Power generation from solid industrial waste.
- v) Promotional activities .
- vi) R&D, Resources assessment, technology upgradation and performance evaluation, etc.
- vii) Installation of biomass co-generation projects (excluding bagasse co-generation) in industry for meeting the requirement of captive power and thermal energy with at least 50% of power for captive use, and an option for the surplus power to be exported to the grid.

3.0 Eligibility of projects for Central Financial Assistance

Criteria based on type of wastes

3.1 The eligibility criteria for type of waste are as follows:

- i) Projects based on any bio-waste from urban, agricultural, industrial/agro – industrial sector (excluding bagasse).
- ii) Projects for co-generation /power generation and production of bio-CNG from biogas.
- iii) Mixing of other wastes of renewable nature, including rice husk, bagasse, sewage, cow-dung, other biomass and industrial effluents (excluding distillery effluents) will be permissible.
- iv) Biogas generation projects based on distillery effluents and projects based on wastes from fossil fuels and waste heat (flue gases) shall not be supported.
- v) Municipal Solid Waste based projects selected through transparent competitive procedure would only be eligible for central financial assistance.
- vi) In MSW to Power projects, any waste of renewable nature or biomass can be mixed to the extent of 25 % based on gross Calorific Value. Use of a maximum of 25 % conventional fuels would be allowed in Biomass Co-generation (Non-Bagasse) projects based on agricultural wastes and residues other than bagasse.

Criteria based on technologies

3.2 The eligibility criteria for technologies will be:

- i) Projects based on waste-to-energy conversion technologies, namely, biomethanation, combustion, gasification, pyrolysis or a combination thereof.
- ii) Projects for generation of power from biogas will be based either on 100% biogas engines or steam turbines with a minimum steam pressure of 42 bar.
- iii) MSW based projects need to be developed in accordance with the decision of Hon'ble Supreme Court given during the hearing on May 15, 2007 and the recommendations of the Expert Committee referred therein.
- iv) The projects based on biomethanation of MSW should be taken up only on segregated/uniform Waste unless it is demonstrated that in Indian conditions, the waste segregation plant/process can separate waste suitable for Biomethanation.
- v) Bio-CNG to be produced will have to meet the BIS specifications as per IS 16087 : 2013.

Criteria based on capacity

3.3 There will be no minimum / maximum limit on capacity of projects supported under this programme, however, cattle dung based power generation projects of up to 250 kW capacity will not be considered under this programme.

4.0 Central Financial Assistance

Central Financial Assistance (CFA) for projects of different categories would be given in the form of capital subsidy to the promoters and in the form of Grants-in-Aid for other activities, as given below:

4.1 Capital subsidy to the promoters

Wastes/Processes/Technologies	Capital Subsidy
1. Power generation from Municipal Solid Waste	Rs. 2.00 crore/MW (Max. Rs.10crore/project)
2. Power generation from biogas at Sewage Treatment Plant or through biomethanation of Urban and Agricultural Waste/residues including cattle dung or production of bio-CNG.	Rs. 2.00 crore/MW or bio-CNG from 12000 m ³ biogas/day (Max. Rs. 5 crore/project)
3. Biogas generation from Urban, Industrial and Agricultural Wastes/residues	Rs. 0.50 crore /MWeq. (12000 m ³ biogas /day with maximum of Rs. 5 cr./ project)
4. Power Generation from Biogas (engine / gas turbine route) and production of bio-CNG for filling into gas cylinders	Rs. 1.00 crore/MW Or bio-CNG from 12000 m ³ biogas (Max. Rs.5 crore/project)
5. Power Generation from Biogas, Solid Industrial, Agricultural Waste/residues excluding bagasse through Boiler + Steam Turbine Configuration	Rs. 0.20 crore/MW (Max. Rs. 1 crore/project)

4.2 The capital subsidy will be considered subject to the following:

- i) The amount of capital subsidy would be calculated on the basis of installed capacity.
- ii) Total capital subsidy would be limited to Rs. 5.00 crore per project for Industrial Waste, however, it will be limited to Rs. 1.00 crore per project in case of projects for power generation through boiler turbine configuration in stand alone mode or through co-generation.
- iii) Subsidy amount will be restricted to 20% of the project cost in Urban, Agricultural Waste/residues and Industrial Waste while financial assistance will be limited to 40 % for STP.
- iv) In case of Special Category States (NE Region, Sikkim, J&K, Himachal Pradesh and Uttarakhand), the capital subsidy would be 20% higher than that for other States. This provision will also be applicable two items (ii & iii) above.
- v) CFA to Biomass co-generation projects would be limited to a maximum of Rs. 1.0 crore/project , irrespective of the installed capacity of the project.

4.3 Incentives to State Nodal Agencies

State Nodal Agencies would be provided an incentive / service charge @ Rs.1% of the subsidy restricted to Rs.5.00 lakh per project, in order to facilitate development of projects and their monitoring during implementation / post commissioning. Service charges for Biomass co-generation (Non-bagasse) projects would be @ Rs.1 lakh/MW restricted to Rs. 5 lakh/project.

4.4 Financial Assistance for promotional activities

Financial assistance would be provided for organizing training courses, business meets, seminars/ workshops and publicity /awareness on case-to- case basis, subject to a maximum of Rs. 3.0 lakhs per event/ activity.

4.5 Financial support for R&D projects

Financial support would be provided for R&D projects, including studies on resources assessment, technology upgradation, performance evaluation etc. to institutions/ industries. This will be governed by the procedures /guidelines issued by MNRE.

5.0 Implementation Arrangements

The scheme will be implemented by State Nodal Agencies, Urban Local Bodies / Municipal Corporations, private and public sector enterprises and organizations, as well as NGOs including through Energy Service Companies (ESCOs). The prescribed format for submission of the proposals is given in the Annexure-II. For projects to be implemented without debt financing/loans, the proposals will be directly submitted to the Ministry for financial support. In cases where debt financing / loans from domestic FIs / Banks is involved, the proposals for financial support will be submitted by the promoters to the Ministry through Banks/FI along with all the statutory clearances. The Technical Institutions namely IISc, IITs, CLRI, etc. and the organizations such as IL&FS, TCOs, FIs, IREDA, etc. will also be involved in development of projects and preparation of Detailed Project Reports (DPR). The projects will be taken up by Urban Local Bodies and other Government organizations in Public Private Partnership mode. Financial Assistance for MSW based projects will be provided for projects selected through a transparent competitive procedure.

6.0 Release of Central Financial Assistance

6.1 The entire capital subsidy amount would be released to the beneficiary's loan account in the lending financial institution/banks for the purpose of offsetting the loan amount only after successful commissioning of project as per DPR norms and receipt of copies of statutory clearances and requisite project related information / documents. The condition of successful commissioning of the project would, *inter-alia*, imply operation of the project for three months, including continuous operation for at least 72 hours at minimum of 80% of rated capacity, for MSW based projects, this would be 60% of rated capacity.

6.2 In case the project is set up by the developers through their own resources, the CFA would be released directly to the developer after successful commissioning of the project as per item 6.1 above

6.3 The incentives to State Nodal Agencies would be released after successful commissioning of the project.

7.0 Monitoring Mechanism :

7.1 The State Nodal Agencies concerned will closely monitor the execution of the projects and provide guidance for their timely completion. They would also submit periodic progress reports to MNRE.

7.2 MNRE may also monitor the progress of implementation of the projects as well as their performance through a Monitoring Committee consisting of representatives from MNRE, financial institution (s) / banks, Technical Institutions and State Nodal Agencies.

8.0 The aforesaid programme is subject to change (s) and modification (s) as may be decided by the MNRE, Govt. of India from time to time, and subject to availability of funds. The Ministry shall in no way be liable for expenditure incurred by promoters for pre-project preparation or other activities, merely on the basis of this circular and / or related announcements by the Ministry. In case of any ambiguity on interpretation of any provisions of the scheme, the decision of the Ministry shall be final and binding.

**APPLICATION FORM FOR GRANT OF SUBSIDY
Under the Programme on Energy from Urban, Industrial and
Agricultural Wastes / Residues**

1. Name of Promoter/ Investor
2. Regd. Office/Postal address
Tel. No./ Fax No./E-Mail
3. Name of Project along with capacity
4. Type of Waste & Quantity required/day
5. Location- (city/district/state)
6. Name of FI/Bank lending for the project
7. Total cost of project
 - a) Pre-project costs
 - b) Capital cost
 - c) Other costs
 - d) Total
8. Means of Financing
 - a) Promoter's direct equity
 - b) Loans (with details) from FIs
 - c) From other sources
9. Whether grid-connected or captive
10. Project period (in months)
11. Status of Project
12. Enclosures
 - a) Two copies of DPR, including bar charts for schedule of activities for the project
 - b) Proof of possession of site
 - c) Details of statutory clearances obtained, (if any)
 - d) Copy of the MoU executed with FI/Bank
 - e) Copy of the MoU executed with SEB / other State Agency

Note Certified that the above information given by me on behalf of my firm/ company is correct in all respects and no factual information has been suppressed.

(Signature of the Applicant)

Registration and Mandate Forms for Government Subsidy Credit

Registration details of Bank/F.I.

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-

MANDATE FORM

ELCTRONIC CLEARING SERVICE (CREDIT CLEARING) REAL TIME GROSS SETTLEMENT(RTGS) F A C I L I T Y F O R
R E C E I V I N G P A Y M E N T S

A. DETAIL OF ACCOUNT HOLDER:- For Government subsidy credit

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 IFSC CODE	
IS THE BRANCH ALSO NEFT ENABLED?	
TYPE OF BANK ACCOUNT (Term loan account of bank where Government subsidy getting credited)	
COMPLETE BANK ACCOUNT NUMBER	
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 Bank/F.I.

Date:

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

(Bank's Stamp)

Signature of Bank/F.I.

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

File No. 10/1/2013/U&I
Government of India
Ministry of New and Renewable Energy

Block-14, CGO Complex,
Lodhi Road, New Delhi-110003
Dated: 21st June 2016

Corrigendum

Subject: Programme on Energy from Urban, Industrial and Agricultural Wastes / Residues during 12th Plan Period - Clarifications on Para 4.1 & 4.2 of the Scheme - Reg.

The Ministry is currently implementing the above scheme, notified vide Order No: 10/1/2013- U&I dated 12.09.2013 for the 12th Plan Period. The scheme provides for Central Financial Assistance (CFA) for projects of different categories both in terms of type of wastes [Solid Wastes/Effluents] generated in the Urban, Industrial and Agricultural Sectors; and end use application of biogas produced (power generation/bio - CNG production /thermal application).

2. Of late, some ambiguity/non clarity has been noticed in para 4.1 & 4.2 relating to the eligible CFA for projects of different categories. In order to bring clarity in the eligible CFA for projects of different categories, these paras of the scheme have been reworded as per details given in the Table at **Annexure - I**.

3. The definition of project cost including other changes in the guidelines is as under -

- i) **Project Cost** : the definition of project cost based on different end use application is as under -
 - a) For projects on power generation, cost will include cost of engine - genset, H₂S removal plant and other related equipment.
 - b) For projects on Bio CNG production, cost of CO₂ removal plant and other equipment used for filling Bio CNG into the cylinders or for injecting Bio CNG into the piped gas grid will be considered in place of engine genset cost.
 - c) For projects on biomethanation, project cost will include the cost of biomethanation plant including pre-processing of wastes/effluent only.
- ii) The project based on power generation would be either for captive power generation or grid interactive power generation;
- iii) Documents related to progress of execution of the project and expenditure statement will not be required at the stage of in principle sanction of the project;

- iv) The Project should be completed in 9 months from the date of sanction. In case of delays in completion, prior approval of the Ministry will be required ; and
- v) There is no change in other terms & conditions stipulation in the scheme.

This has been issued with concurrence of IFD vide Dairy No. 549 dated 20/06/2016 and the approval of the Competent Authority.

VK Jain

(VK Jain)

Adviser

Telefax: 011 2436 9788

Email: jainvk@nic.in

To :

- i) All Heads of State Nodal Agencies
- ii) Director of Audit (C.W. & M), Special Cell, New Delhi

Copy to :

- iii) JS & FA
- iv) JS(VJ)
- v) DS(F)/ US (F)
- vi) PSO to the Secretary, MNRE
- vii) Sanction Folder

Programme on Energy from Urban, Industrial and Agricultural Wastes / Residues
- Clarifications on Para 4.1 & 4.2 of the Scheme

S. No.	Wastes/ Processes/ Technologies	Capital Subsidy	Project Description
1.	Power Generation and /or Production of Bio CNG at Sewage Treatment Plants	Rs. 2.00 crore/MW or bio-CNG from 12,000 m ³ biogas/day with maximum of Rs 5 crore/project or 40% of the project cost whichever is lower.	Project will be for utilisation of biogas being produced/available at Sewage Treatment Plants
2.	Power Generation and/or Production of Bio CNG from Urban Wastes and Agricultural Wastes /Residues	Rs. 2.00 crore/MW or bio-CNG from 12,000 m ³ biogas/day with maximum of Rs. 5 crore/ project or 20% of the project cost whichever is lower.	Generation of biogas from biomethanation of Urban Waste [namely cattle dung, vegetable & fruit market waste, slaughter house wastes, poultry waste, etc.] or Agricultural Waste [paddy straw, agro processing industries residues / effluents, green grasses etc.] or mix of these wastes and used for power generation and /or production of Bio-CNG.
3.	Biogas Generation from Urban, Industrial and Agricultural Wastes / Residues	Rs. 0.50 crore / MWeq or 12000 m ³ of biogas per day with maximum of Rs. 5 crore/project or 20% of the project cost whichever is lower.	For cattle dung based projects, the eligible project capacity would be 250 kW and above. Projects are for biogas generation only from Urban Waste , [namely cattle dung, vegetable & fruit market waste, slaughterhouse wastes, poultry waste, etc.] or Industrial Wastes/Effluents [Agro Processing Industry, Pulp & Paper, Milk Processing, Sugar Industry etc.] or Agricultural Wastes / Residues [paddy straw, agro processing industries residues /

			effluents, green grasses etc.] or mix of these wastes.
4.	Power Generation from Biogas (Engine/Gas Turbine Route) and/or Production of Bio CNG from Biogas from Industrial Wastes	Rs. 1.00 crore/MW or bio-CNG from 12,000 m ³ biogas/day with maximum of Rs. 5 crore/project or 20% of the project cost whichever is lower.	Biogas already available/generated from Industrial Wastes / Effluent (namely Agro Processing Industry, Pulp & Paper, Milk Processing, Sugar Industry etc.) at project site and used for power generation through Engine / Gas Turbine Route and / or production of Bio CNG.
5.	Power Generation from Biogas, Solid industrial Wastes and Agricultural Wastes/ Residues excluding Bagasse	Rs. 0.20 crore/MW with maximum of Rs 1.00 crore/project or 20% of the project cost whichever is lower.	Projects on power generation or cogeneration through boiler & steam turbine configuration for utilization of biogas or solid industrial wastes and agricultural wastes / residues or mix of these excluding bagasse already available at project site.

**Ministry of New and Renewable Energy
Government of India
(WTE Division)**

Block No. 14, CGO Complex,
Lodhi Road, New Delhi-110003.

ELIGIBILITY CHECKLIST TO BE FILLED BY PROMOTER AND COUNTERSIGNED BY STATE NODAL AGENCY FOR GRANT OF ELIGIBLE CAPITAL SUBSIDY AGAINST THE REQUEST FOR SETTING UP OF BIOMETHANATION/BIO-CNG/POWER PROJECT UNDER THE PROGRAMME ON ENERGY FROM URBAN, INDUSTRIAL AND AGRICULTURAL WASTES/ RESIDUES.

At the time of Sanction

S.NO.	Document Name	Tick Mark
1.	Has the SNA satisfied about the requirement of items/components/machinery etc. for the initial setting of the said Urban/Industrial Waste Power project before recommending and forwarding the application to Director, MNRE?	
2.	Whether (i) Application in the prescribed format (ii) Copy of Detailed Project Report has been enclosed?	<input type="checkbox"/> <input type="checkbox"/>
3.	Whether the (i) Copy of the Certificate of Incorporation (ii) Memorandum and article of association (iii) Balance sheet and profit & loss statement of the company for last two FY's has been enclosed?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
4.	Whether the (i) Layout of the plant and its associated sub- units (ii) Latest Progress report of the project with date of commissioning along with photographs has been enclosed?	<input type="checkbox"/> <input type="checkbox"/>
5.	Whether (i) Purchase order/Supply order/Contract Agreement of all the critical machinery (ii) Performa invoices (iii) Technical Specifications of the Digester/Compressor/Biogas Engine/Turbine (iv) Raw Material Details Invoice/ Agreement (v) Copy of agreement carried out with Technology/TCS Supplier has been enclosed?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
6.	Whether the (i) State Gov. approval (ii) Valid Consent to Establish from State Pollution Control Board (iii) Approval for layout of the Bio-CNG Plant from <u>Petroleum and Explosives Safety Organisation</u>(PESO), Nagpur if applicable (iv) Land Lease Agreement has been enclosed?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

7.	Whether the (i) Agreement for sale of Bio-CBG/fertilizer if applicable (ii) PPA valid for at least 10years if applicable has been enclosed?	<input type="checkbox"/> <input type="checkbox"/>
8.	Whether the (i) Sanction Letter of Financial Institution if applicable (ii) Loan Agreement Copy if applicable (iii) Appraisal Note by Bank if applicable has been enclosed?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

At the time of Release

S.NO.	Document Name	Tick Mark
1.	Whether the (i) Document indicating the project commissioning date (ii) Board resolution for meeting the project cost from internal accruals/ Bank (iii) Undertaking for not claiming subsidy from other institution on non -judicial stamp paper of Rs.100/- has been enclosed?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2.	Whether the (i) Inspection report of the Project by Executive Engineer of SNA (ii) Performance report of Biogas/bio-CNG/power generation for 3 months (iii) Biogas/bio-CNG/power generation data for 72 hours continuous operation has been enclosed?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
3.	Whether the (i) Valid Consent to Operate from State Pollution Control Board (ii) Approval for storage & filling Bio-CNG Plant from Petroleum and Explosives Safety Organisation (PESO) , Nagpur (iii) Analysis Report of Effluent quantity and characteristics from accredited lab if applicable has been enclosed?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
4.	Whether the (i) Statement of Expenditure made so far, duly certified by C.A. with seal and Firm Registration No. & C.A. Membership No. (ii) Bank letter for disbursement of the sanctioned amount for the project. if applicable (iii) Mandate form for payment transfer of promoter has been enclosed?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
5.	Whether the (i) Brief Write up on Project as attached format (ii) Soft and Hard Copy of photographs with high resolution has been enclosed?	<input type="checkbox"/> <input type="checkbox"/>

Promoter

Authorized signatory
(With seal and date)

State Nodal Agency

Authorized signatory
(With seal and date)