**Application Form for installation of medium biogas plants**

**(above 25 to 2500 M3) under MNRE biogas programme**

1. **Format for projects upto 10 kW on biogas based power generation (off-grid) & thermal application)**

|  |  |  |
| --- | --- | --- |
| 1 | Name and address of state   Govt. Nodal Deptt. / Nodal Agency / BDTC/ KVIC  Or  other    Approved Organization |  |
| 2 | Name & Address of   project executing organization/agency (if other than SNA/SND./BDTC/ KVIC) |  |
| 3 | Details of Site   indicating location and address with expected load and use of electricity or   biogas for thermal applications: |  |
| 4 | Capacity of the biogas   plant (cubic meter per day or cubic meter per hour) |  |
| 5. | Details of Cattle   viz.  in numbers-Adult, smaller than 5   years (Total availability of dung in kg.) plus Any other source of waste like   goats, pigs, poultry dairy effluent , food & kitchen , Agro/ Food processing   waste etc.  (Please specify the Nos. of   animals/ birds  & its dropping in   kg.) to the accuracy so as to work out total quantity of waste in Kgs. /   Tonnes/ Litres of dairy effluent etc. |  |
| 5 | Name of   manufacturer/supplier and cost of 100% biogas engines, DG-Genset and   associated control panel etc. |  |
| 6 | Total  daily demand /requirement  of power in KWh/day  and required amount of biogas generation   daily( in cubic metre) for the same    including  for cooking/ heating   / cooling etc. (Kcal requirement per day for thermal energy applications). |  |
| 7 | No. of biogas plants   Units with capacity of each in m3proposed |  |
| 8 | Proposed operational   hours per day entirely based on Biogas i.e . on 100% biogas utilization   basis. |  |
| 9 | Estimated actual   cost  as worked out by the concerned   user agency /manufacturer and verified by the concerned SND / SNA / KVIC /   BDTC etc. |  |
| 10 | Total Estimated cost of   the project (in Rs.) |  |
| 11 | Amount of CFA worked out as per the approved rates and norms of   the scheme of BPGTP      (in Rs.) **And   Category of the beneficiary General/ SC/ ST / Others.** |  |

 12.  Further this is certified that:

(i)Adequate quantity of surplus cattle dung/biomass/ other eligible wastes are available at the proposed plant site and user/applicant is genuinely interested for installation and operation of biogas power plant/ thermal plant on regular basis at least for 10 years’ period.

(ii)The User Organization has agreed and tied up to arrange balance funds from Bank and self-contribution over & above the eligible CFA for installation of proposed biogas based power /thermal project.

(iii) User organization has agreed to operate and maintain the biogas project at their own or by engaging the skilled personnel as Biogas Plant Operator on regular basis for a minimum period of 12- 15 years.

(iv)The user organization has the capacity to operate the plant for12- 15 years and has tied up management of plant slurry and its disposal by making self-use/ sale of organic bio-manure to third party.

 Name & Signature of the User Organization/user

Date: Place:                                         (Verified & Countersigned by Head of PIA)

1. **Format for basic information for projects above 10 kw biogas based power generation / thermal applications**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Name of the Project** | **Biogas based power generation/ Thermal   application** |
| 1. | Name of the   Beneficiary and address : |  |
|  | GPS of the Plant site Telephone No. of the site |  |
| 3. | Name of   address of the State Agency/BDTC who propose to undertake the work |  |
| 4. | Category of   Beneficiary / Institution  Please (√)   tick | a)     General/SC/ST/Others  b)      Private  c)      Government  d)      Public Organization  e)      Others |
| 5. | Proposed use   of generated power with detailed configuration |  |
| 6. | Mode of use   and total requirement of power in kWh/day     OR total requirements of biogas in cu.m.per day |  |
| 7. | Proposed size   of Biogas plant in cubic meter (m3) |  |
| 8. | Available  population of cattle |  |
| 9. | a)      Details of Cattle viz.  in numbers-Adult, smaller than 5 years   (Total availability of dung in kg.) |  |
| b)      Any other source of waste like goats, pigs, poultry dairy effluent , food & kitchen , Agro/ Food processing   waste etc.  (Please specify the Nos. of   animals/ birds  & its dropping in   kg.) to the accuracy. |  |
| c)      Agricultural waste in kg. |  |
| d)      Other degradable biomass in kg.  (please attach separate sheet along with   the full details of each raw material) |  |
| e)      No. of latrine attached & No. of   users |  |
| f)         Availability   of land for proposed biogas plant and housing generator etc. |  |
| 10. | Procurement   and commissioning of *( Name of the   proposed power generating system, Mechanism for manufacturers and operation   & Maintenance of the system suppliers to be given)* |  |
| 11. | Estimated   quantum of power to be generated through biogas plant, keeping in view the   minimum 10 hours daily operation of the proposed power plant entirely based   on Biogas generation |  |
| 12. | Proposed   Electrical Load Distribution with Biogas power plant |  |
| a)      Domestic (Details to be given) |  |
| b)      Village industry (Details to be given) |  |
| c)     Irrigation/Agriculture  d)      Entire Power to be used for self & /   Balance surplus power / biogas to be sold locally |  |
| 13. | Types of   engine proposed for power generation |  |
| 14. | Capacity of   engine / dual fuel (used with bio fuel only)    or Biogas micro turbines etc. in kVA |  |
| 15. | a)      Cost of 100% biogas engine or dual fuel   engine, coupled with Genset,    associated Central panel and power room etc. (in Rs) |  |
| b)      Cost of internal transmission system   used for electrification (for a & b please attach separate sheet along   with full details) |  |
| 16. | Cost of proposed   biogas plant (in Rs): |  |
| 17. | Manure   Management and Handling  system   including safe and neat disposal for sale of Bio-manure. |  |
| 18. | Approximate   cost of electricity that may be generated through  Biogas ( kWh/ day) |  |
| 19. | Source of   funding of the project (in Rs) |  |
| a)      Own fund (Rs.) |  |
| b)      Bank loan (Rs.) |  |
| c)      Central financial assistance (Rs.) |  |
| **d)       Total**(in Rs.**)** |  |
| 20. | Source of   funds for meeting operation and maintenance cost of the system |  |
| 21. | Undertaking   from State Nodal Deptt.../Agencies/BDTC  *(An undertaking to this effect from   agency for procurement installation, operation and maintenance of the system   on regular basis.)* |  |
| 22. | Mechanism to   transfer the power plant to user / panchayat/ Society/ Entrepreneur etc.  by SNA/SND/BDTC after specific period if   applicable for the project proposal. |  |
| 23. | Any other   information with regard to the project |  |

**Date                                                                                    Signature of the Beneficiary**

**Place                                                                                  Who undertakes the project**

|  |  |
| --- | --- |
| Date / Place | Signature of the Developer/ promoter Undertake the work of power generation & construction of Biogas plant etc. |
| Verified & countersigned by the Head of the PIA | |

***On Non - Judicial Stamp / e stamp Paper***

**UNDERTAKING**

The management of <**Name of the Enterprise**> or <**Name of the owner for individual user**> has submitted  proposal for setting up of **<...kWe  power generation project**> or **<…Cubic Meter biogas plant for thermal energy applications>**  at <**project location**> using ***<Name and type of raw material****>* as feed material for biogas generation and applied for availing  Central  Financial Assistance (CFA)  from Ministry of New and Renewable Energy, Government of India.

We undertake that,

1. The cost over and above the MNRE , GOI share will be borne by me/      our organization; and
2. We will operate the plant for a minimum period of 15 years and shall not dislocate or abandon the project including any of the related equipment/ part. If at any point of time the biogas project is found  non-operational after its commissioning , I / we shall be liable to refund  the Central Financial Assistance / subsidy received for the project      installation , with interest thereon as decided and asked by the      MNRE,  Government of India.
3. We / the Company------------- have not claimed any subsidy for the same biogas plant / project under any other programmes of Govt. of India. If there is any discrepancy found subsequently, the ministry is allowed to recover the subsidy under Biogas Power/ Thermal Energy projects from us.
4. The BDTC/MNRE / State Nodal Agency etc. will have the right to get all the project related technical and financial data to publish success stories/ case studies / technical papers and for third party inspection and evaluation on the operation and performance aspects of the project.
5. Above content of this affidavit are true and correct to the best of my knowledge and acceptable to the undersigned.

**Authorized Signature of Deponent/ beneficiary**

**Verification:**

            Verified that the content of this Affidavit are true and correct to the best of my knowledge and belief nothing has been concealed there in.

 ATTESTED AND IDENTIFIED

DEPONENT

Dated.\_\_\_\_\_\_\_\_\_

NOTARY PUBLIC