

MICRO-INDUSTRY IN RURAL SEMI-ARID REGION OF RAJASTHAN

Expression of Interest (EoI Call)

Text of Newspaper Advertisement

**INDIAN INSTITUTE OF TECHNOLOGY DELHI
NEW DELHI-110016
Industrial Research & Development Unit
Expression of Interest (EoI) Call**

This is an “Expression of Interest (EoI)” call for setting up an experimental micro-industry for rural development based on biomass based co-generation hybridized with solar thermal energy, in collaboration with I.I.T. Delhi. The unit is to be set up in a semi-arid rural region of Rajasthan where there is some water, and some biomass available, and also where there is plenty of sunshine. Only established no-profit Non-Governmental Organisations (NGO-s), with rural development included in charter, may apply. Presence, or earlier experience of working, in Rajasthan would be desirable. Interested and qualifying NGO-s may send in their EoI letter. For all details, terms and conditions, questionnaire, and reply address, go to website <http://www.iitd.ac.in/tenders>, and look for “Micro-industry in rural semi-arid region of Rajasthan”

Details and Questionnaire for setting up a micro-industry in rural semi-arid region of Rajasthan

PREREQUISITE:

This is an “Expression of Interest (EoI)” call for setting up an experimental micro-industry for rural development based on biomass based co-generation hybridized with solar thermal energy, in collaboration with I.I.T. Delhi. The unit is to be set up in a semi-arid rural region of Rajasthan where there is some water, and some biomass available, and also where there is plenty of sunshine.

Only established no-profit Non-Governmental Organisations (NGO)-s, who are mandated to plough back their surplus to activities in their charter, and also with rural development included in their charter, are eligible to apply. If you do not qualify this clause, please do not apply.

Presence, or earlier experience of working, in Rajasthan would be desirable.

Interested and qualifying NGO-s may send in their EoI letter.

INSTRUCTIONS:

1. Go to the website given in the newspaper advertisement and download the .PDF file.
2. Read the questionnaire carefully.
3. All the questions, and the entire textual matter supplied by us, are in bold face, in the .PDF file.
4. Download the questions, as a separate document, entitled “Questions”, as a .TXT file, by clicking on the link <http://www.iitd.ac.in/misattach/rajques.txt>, in the .PDF file.
5. Answer ‘Y’ or ‘N’ (‘Yes’ or ‘No’) options by encircling in ink, ‘Y’ or ‘N’.
6. Fill in the questionnaire in a computer using the .TXT file, and answer all questions by creating space below each question.
7. Leave all the original text provided by us, and do not change any of these. For comparison the questionnaire is also there in the original .PDF file.
8. Please answer all questions. Supply all the details asked for.
9. Send in the completed questionnaire along with an “Expression of Interest” letter, and also other documents asked for in the questionnaire, under sealed cover, to reach by 21 days of publication of newspaper advertisement as above to the following address, and with the words “EoI for MICRO-INDUSTRY, RAJASTHAN, RP02260”, prominently written on the outer cover. Do not send in any documents by email.

Address of Submission:

**PRINCIPAL INVESTIGATOR (RP02260)
Head’s Office, Room No. IV-236
Department of Applied Mechanics
Indian Institute of Technology, Delhi
New Delhi-110016**

10. All documents are to be signed, and also photocopies of other documents asked for, are to be attested, by the Chairman of your organization, and under his/her seal.
11. After receiving all applications, I.I.T. Delhi will shortlist the applicants. Those organizations that qualify in the short list will be appropriately intimated, and called for interview at I.I.T. Delhi.
12. Finally selected NGO will be required to sign an agreement with I.I.T. Delhi.

QUESTIONS:

- 1) Please give the name of your organization, base station, full postal and email address for communication, telephone and fax.
- 2) Please give the name and address of your Chairman along with his/her academic qualifications and past important positions held.
- 3) Give the general credentials of your organization with all commercial and government registration details (copies of which are to be supplied).
- 4) Give a list of all major projects undertaken by you for rural development in the past 5 years including the names of all organization who have funded you/or collaborated with you.
- 5) Have you done/are you doing any research and development activities on rural development in collaboration with a reputed academic institute? Y ; N . If 'yes', please give a list of such projects/activities along with names of the collaborative institutes.
- 6) I.I.T. Delhi will provide the plant and machineries for the above micro-industry on long term loan. The following units are expected to be set up in the micro-industry:
 - i) Biomass based co-generation system with biomass boiler, back-pressure steam turbine, and electric generator, giving about 100 kW electricity, and 2.5-3.0 tonnes/hr exhaust steam at 2.5 barg back-pressure.
 - ii) Steam based vapour absorption machine (VAM) for cooling systems, for cold chambers, and ripening chambers.
 - iii) Preparation of drinking and distilled water with up-scaled MED system based on I.I.T. Delhi design.
 - iv) Oil expeller unit mainly for castor oil.
 - v) Steam extraction of essential oil.
 - vi) Steam based dryers for drying of spices.
 - vii) Other activities to be decided in future.
- 7) You are expected to provide the land and infrastructure for the above at your own cost. Do you agree? Y ; N .
- 8) You are expected to provide the working capital for running the micro-industry through your own resources. Do you agree? Y ; N .
- 9) Any surplus generated on an annual basis from the micro-industry as above will be ploughed back directly to rural development. Do you agree? Y ; N .

- 10) The micro-industry is to be set up in a rural semi-arid region of Rajasthan where there is some water and plenty of sunshine. Do you have sufficient land at your disposal, at least 2 acres, for the above micro- industry at your disposal in the rural semi-arid region of Rajasthan? Do you have this? Y ; N . If 'yes', give all details including name and location of the village. If 'no', do you agree to procure land within 2 months of signing of agreement? Y ; N .
- 11) Do you have sufficient resource of water? About 100 m. cu. will be required daily in the micro-industry. Do you have this much water available at your disposal? Y ; N . If 'yes', give details. If 'no', do you agree to arrange for water soon after signing the agreement? Y ; N .
- 12) Do you have sufficient availability of biomass for the biomass based boiler? About 10-15 tonnes of biomass will be needed per day in the biomass boiler. Y ; N . If 'yes' please give details of the position of biomass availability. If 'no', do you agree to arrange for required biomass soon after signing the agreement? Y ; N .
- 13) Are you able to spare 1 acre of land for setting up a Fresnel solar collector based steam generation unit? This will require about 1 acre of dedicated land. Y ; N . If 'no', do you agree to procure land within 2 months of signing of agreement? Y ; N .
- 14) What is the annual turnover of your NGO?
- 15) The built up area of the micro-industry will be approximately 20 m x 50 m x 4 m height along with adjoining storage space. This will need to be setup by you as part of the infrastructure. The expected cost of infrastructure for the micro- industry is between Rs. 0.5-1.0 crores. You are expected to bear this cost and set up the infrastructure. Do you agree to set up the infrastructure at your own cost? Y ; N . If 'yes', indicate sources.
- 16) The working capital needed for running the micro-industry is expected to be between Rs. 0.5-1.0 crores. Are you able to raise this amount? Y ; N . If 'yes', please indicate sources.
- 17) You will require a supply of grid electricity with capacity of about 50 kW. Are you able to arrange for this? Y ; N .
- 18) All inputs for running the micro-industry like biomass fuel, raw materials, grid electricity consumed, and other such similar items have to be procured by you at your own cost, as part of the running cost of the micro-industry. Are you prepared for this? Y ; N .
- 19) What are the local agricultural produce in your area? Please give list of major items that could be used somehow in the micro-industry.

- 20) What products do you expect to import from neighbouring states, if for instance you would like to do fruit ripening? Please give a list.
- 21) All accounts of all transactions for the micro-industry, including balance sheet and profit and loss account, should be made freely available to I.I.T. Delhi for perusal, when so desired by I.I.T. Delhi. Do you agree? Y ; N .
- 22) You have to submit annually, to I.I.T. Delhi, a Yearly Audited Statement of Accounts of all transactions, including balance sheet and profit and loss account, of the micro-industry. Do you agree? Y ; N . Attach copies of the audited statements from your NGO for the last 3 years.
- 23) You will need to acquire all permits, licences and other documents that will be required for setting up and operation of the micro-industry, and sale of its produce. Do you agree? Y ; N .
- 24) You will have the right to the nett surplus generated by running the above micro-industry, if any surplus generated on an annual basis from the micro-industry as above will be ploughed back directly to rural development. Do you agree? Y ; N .
- 25) You will observe and obey all laws of the land in respect of operation of the micro-industry. Do you agree? Y ; N .

DECLARATION:

I certify that the above information is given by us is true to the best of our knowledge.

Signature

Chairman of the NGO