

No. 3/101/2016-CPG
Ministry of New and Renewable Energy
Biomass Power Division

14, CGO Complex, Lodhi Road,
New Delhi – 110003
Dated: 20.09.2016

Subject : Invitation for Expression of Interest (EOI) / Proposals for conducting Evaluation of the Scheme on Grid Connected Biomass Power, Bagasse Cogeneration and Non-bagasse Cogeneration in Industries.

1. Ministry of New and Renewable Energy (MNRE intends to engage national/international level reputed consultants to undertake evaluation of Programme on Biomass Power, Bagasse Cogeneration and Non-bagasse Cogeneration in Industries as per Terms of Reference(TORs)/Scope of Work given in the Annexure.

(a) Background of Evaluation

The Ministry is implementing the Biomass Power, Bagasse Cogeneration and Non-bagasse Cogeneration Programmes with the main objective of promoting technologies for optimum use of country's biomass resources for grid power generation including bagasse based cogeneration in sugar mills for the last 18 years. The estimated Potential for bagasse cogeneration and biomass power is 5000 MW (surplus) and 17,000 MW respectively. The bagasse cogeneration scheme is doing well in the private sector sugar mills whereas problems are being faced in promoting optimum cogeneration in the cooperative sugar mills. The problems mainly are institutional and financial resulting from the profits that have to be given back through higher cane price in cooperative sector sugar mills. In view of this, the ministry offers a higher incentive package and upfront subsidy support for cooperative /public sector sugar mills for taking up cogeneration projects.

The new capital subsidy scheme announced in June, 2014, provides for subsidy to projects for setting up biomass combustion based power projects and bagasse cogeneration projects in private/cooperative/public sector sugar mills. The capital subsidy is released to Financial Institutions which provides loan to the project developer on setting up biomass power and bagasse cogeneration project towards reducing the loan amount and deemed as pre-payment of loan by the developers. The new scheme provides for higher level of capital subsidy for bagasse cogeneration projects in cooperative /public sector sugar mills. Capital subsidy is also being provided for Non-bagasse cogeneration projects in industries vide Programme on Energy from Urban, Industrial and Agricultural Wastes/Residues during 12th Plan announced in September, 2013.

During the 12th Plan, the ministry has provided Central Financial Assistance for the following purposes under the Biomass Power, Bagasse Cogeneration and Non-bagasse Cogeneration programmes.

- I. Setting up Biomass Power Projects (IPPs) and Bagasse Cogeneration Projects by private/cooperative /public sector sugar mills.
- II. Bagasse cogeneration projects in cooperative /public sector sugar mills through BOOT model implemented by IPPs/State Government Undertakings/SPVs.
- III. Bagasse Cogeneration projects in existing cooperative sugar mill employing boiler modifications.
- IV. Non-bagasse cogeneration projects set up in industries for meeting their captive heat and power requirement.

A cumulative capacity of 4861 MW Biomass and Bagasse Cogeneration projects has so far been commissioned mainly in the states of Tamil Nadu, Uttar Pradesh, Karnataka, Andhra Pradesh, Maharashtra, Chattisgarh, Punjab and Rajasthan. The target of 10 GW has been set till 2022. Non-bagasse cogeneration projects with an aggregate capacity of 630 MW have so far been set up.

(b) Purpose of the Evaluation Study

The purpose of the study is to evaluate the performance of the projects installed under the scheme and assesses the suitability of various provisions in the existing scheme and to suggest the changes required, if any.

2. Eligibility

Reputed consultants or consulting organizations having an experience of at least 5 years in conducting such assignments and an annual turnover of at least Rs 50.00 Lakhs per year during the last three years will be eligible/ preferred. Sector specific experience and in-house capability to manage the assignment will be an added advantage.

3. Criteria for evaluation of firms

The consultants firms shall be short listed inter-alia based on their past experience of handling similar type of studies, strength of their manpower and financial strength. The firms will be evaluated/assessed broadly on the following criteria:

- I. General Criteria
- II. Organizational structure and constitution;
- III. Core business and duration of business;
- IV. Technical and managerial capability of the firm;
- V. Performance record of the last five years
- VI. Methodology and work programme for the proposed assignment;
- VII. Experience in the field of assignment and qualification of key team members to be deployed in the work (full time & part time separately);
- VIII. Likely time period indicated to complete and submit the report.

4. Preliminary Examination

After receipt of the bids, MNRE at its discretion may invite any or all the applicants for discussions with a view to sort out any minor inconsistencies and seek clarification on the bids received.

5. Presentation

All incoming expressions of interest will be examined thoroughly. Eligible applicants would be required to personally discuss and make a presentation on their credentials and the proposal before a Committee of Officers constituted by the Ministry. The exact date, time and venue for the discussion and presentation would be communicated separately. The technical and financial bids of only those firms would be accepted which are found suitable to conduct the evaluation/study and short listed by the Committee on the basis of the discussions and presentations.

6. Submission of Expression of Interest

Nationally and Internationally reputed consultants/consulting firms with adequate and specific expertise in conducting such assignments are invited to submit Expression of Interest for selection to Ms. Seema, Director (Biomass Power), Ministry of New and Renewable Energy, Block No. 14, Lodi Road, New Delhi – 110003 till 1600 hours by 10th October 2016 in a sealed cover superscripting “Expression of Interest for Biomass Power, Bagasse Cogeneration and Non-bagasse Cogeneration in Industries”.

Together with the Expression of Interest, the following details are to be sent:

- i. Full particulars of the Constitution, ownership, organizational structure and main activities of the prospective consultant, including details of full time professionals.
- ii. Unabridged annual reports or audited financial accounts for the last three years.
- iii. Names and short CVs of the full time & part time researchers proposed to be involved in the work (the CVs would need to be backed by written commitment of the person of availability of his service)
- iv. Details of major assignments undertaken of a similar nature, during the last five years.
- v. Methodology – A detailed plan indicating how it proposes to carry out each study in the specific sector/subject/area. The Plan shall include the rationale behind the intended methodology.

7. Submission of bids

As second step to bidding for the consultancy, Technical bid document that includes detailing the following information may be sent in a separate sealed cover addressed to Ms. Seema, Director (Biomass Power), Ministry of New and Renewable Energy.

- Understanding of the TOR (from the perspective of the bidder)
- Plan Approach & Methodology: A detailed plan indicating how it proposes to carry out evaluation/ study should be indicated. The Plan shall include the rationale behind the intended methodology. The Consultancy Agency also shall be required to provide details in respect of : (a) *Documentation review (desk study)*; (b) *Interviews and/or consultations*; (c) *Field visits, if any* ; (d) *Questionnaires, if any proposed to be used* and (e) *Participation of stake holders*. The questionnaire shall be got vetted by MNRE.
- Implementation schedule
- Technical Proposal and Proposed price for the consultancy (Separately in two envelopes). The bids(EOI)/ proposals are to be submitted in two parts as under:

i. Technical bid consisting of all the technical details along with commercial terms and conditions covering the following specification:

(A) The technical bid should be submitted with the details of the approach and methodology for undertaking the study and the task-wise activities to be involved as per the terms of reference (TOR) for the study as given in the **Annexure**.

(B). **Evaluation of Technical Proposal:** The consultancy firm's Technical Proposal (TP) will be evaluated by the Consultancy Evaluation Committee (CEC) to be set up in MNRE for the purpose. While evaluating the proposal the CEC will take into account (i) the consultant's relevant experience for the assignment, (ii) the quality of the methodology proposed, (iii) the qualifications of the key staff proposed; and (iv) capability for transfer of knowledge with the firm on the subject. The TP will be evaluated for the above criteria by awarding marks as per the requirement of the study.

Important: The Ministry would not reimburse any of the expenses incurred by the Consultancy/Agency towards preparation of the EOI document, travelling cost, boarding and lodging incurred by it for attending any pre-bid discussion or bid meeting or visiting the Ministry for making the presentation. The Ministry shall in no case be responsible for any such costs whatsoever, regardless of the outcome of the EOI/bidding process.

(C) Names and short CVs of the full time & part time researchers, including field of specialization of each of the proposed key personal to be deployed on the assignment (the CVs would need to be backed by written commitment of the person of availability of his/her service). The CVs must be accurate, complete and signed by an authorized official of the consultant/consulting firm and the individual proposed.

ii. Financial bid indicating task-wise price for the tasks mentioned in the technical bid with full details/instructions.

1) The technical bid and the financial bid should be sealed by the bidder in separate covers duly super scribed and both these sealed covers to be put in a bigger cover which should also be sealed and duly super scribed.

2) The financial bids of only those firms will be opened who have scored a certain level of marks in the evaluation/presentation of the respective technical bids are found as per specifications stipulated by the consultancy evaluation committee (CEC).

8. Time Schedule

The final report of the study is to be completed within three months time from the award of work (extendable by the MNRE at its discretion depending upon the requirements/justification). The following schedule needs to be adhered:

i) By the end of one month the consultancy firm shall make a presentation of the inception report of the study to the MNRE.

ii) The first draft report of the study shall be submitted to the MNRE within three months from the date of award of the study after taking note of the points raised during the presentation.

iii) The final report shall be submitted within one month after receiving the comments from the MNRE on the Draft Report.

9. Period of validity of Bids

Bid shall remain valid for a period of not less than three months after the deadline date for bid submission. A bid valid for a shorter period shall be rejected by the Ministry as non-responsive. The MNRE may request the bidder to extend the period of validity for a specified additional period in exceptional circumstances. During this time/period the Bidders will maintain without change, the personnel proposed for the assignment and the proposed price.

10. Earnest Money Deposit

The Earnest Money Deposit (EMD) of Rs. 10,000/- should accompany the technical bid by Demand Draft drawn in favour of DDO, MNRE, New Delhi and payable at NEW Delhi. The EMD would be forfeited if the bidder withdraws his/her bid during the validity period. EO/Bid received without EMD shall not be considered.

11. Payment Terms and Conditions

The normal payment terms for the consultancy are scheduled as follows, unless agreed otherwise:

- 20% of the total consultancy to be paid upon submission/presentation of an inception report (To be released against the Bank Guarantee for equal amount valid up to two months beyond the contracted time for the submission of final report);
- 30% of the total consultancy to be paid on submission of first draft of the evaluation report; and
- 50% to be paid on the finalization and submission of the report draft based on feedback from the MNRE.

12. Data, services and facilities to be provided by the MNRE

Data available with MNRE will be provided to the consultant by MNRE. Any facilities like office space, rest house, transport, computer, photocopying facilities and typing/ stenographic assistance etc. would not be provided by the Ministry to the consultancy firm.

13. Financial outputs (i.e. Reports etc.) required of the Consultant

- Inception report;
- Soft Copy of the data and information;
- 20 copies of final report in coloured printing;
- Coloured photographs of the Programme visited/evaluated;
- Presentation to MNRE upon preparation of final report.

14. For any clarification, pl. contact Ms. Seema, Director (Biomass Power), Ministry of New and Renewable Energy, Block 14, CGO Complex, Lodi Road, New Delhi (Tele :01124363498, E-mail : seema.roy@gov.in)

Terms of Reference for the Evaluation of Programmes on Biomass Power, Bagasse Cogeneration and Non-bagasse Cogeneration in Industries

The Evaluation study will cover the following:

- (i) To assess the impact and effectiveness of above schemes in view of the progress and performance of the projects and to recommend whether to continue the schemes after 12th Plan.
- (ii) To identify specific bottlenecks in financing and optimum levels of support needed and also identify barriers, constraints, if any with reference to IPP biomass power/bagasse cogeneration projects and non-bagasse cogeneration in industries.
- (iii) To assess the impact of BOOT/BOLT model scheme for cogeneration projects.
- (iv) To indicate the cost-benefit analysis of these systems and indicate whether intended objective is accomplished.
- (v) The study will be done on sample basis. It will include interaction with IREDA, State Nodal Agencies (SNAs), developers and Biomass Power Producers Association and Indian Sugar Mills Association, National Federation of Cooperative Sugar Mills, Utilities, MNRE officials, any other organization in consultation with MNRE. The consulting firm will visit on random basis two bagasse cogeneration projects each in the states of Karnataka, Maharashtra, Tamil Nadu and Uttar Pradesh, two biomass projects each in the states of Chattisgarh, Karnataka, Maharashtra, Rajasthan, Tamil Nadu and Punjab and two Non-bagasse Cogeneration projects in the state of Punjab, Uttar Pradesh, Tamil Nadu, West Bengal and Haryana to assess the performance of these projects.
- (vi) To assess whether amount and pattern of financial support being provided needs to be revised.
- (vii) To assess the implementing procedure of the scheme and indicate if there is a need for modification.
- (viii) To suggest suitable policy intervention for accelerated development and promotion of cogeneration in sugar mills and industries.
- (ix) To suggest any other modification in the scheme.
- (x) The consultant will obtain data regarding number of biomass power and cogen projects established in each state from the concerned SNA.