PSPCL (Punjab State Power Corporation Ltd) is planning to convert the existing coal based one no. Unit (Unit #4) of GNDTP (Guru Nanak Dev Thermal Plant) Bathinda to Biomass (Paddy straw) based Unit.

PSPCL, GNDTP invites Expression of Interest (EOI) for “Supply of Biomass (Paddy straw) to the proposed Biomass Unit at GNDTP, Bathinda.”

**Details of the EOI can be downloaded from the following website:**

[**https://www.pspcl.in/tenders/Expression-of-interest**](https://www.pspcl.in/tenders/Expression-of-interest)

Interested parties are requested to submit their EOI along with the relevant details on or before **05-02-2019** 11:00 hrs in hard copy format to the office of Chief Engineer, GNDTP, Bathinda-151002.

Note: All updates, amendments, corrigenda etc. (if any) will be posted only on above websites. There will not be any publication of the same through newspapers or any other media.

1. **Background**

Taking a step forward in the field of renewable energy, PSPCL (Punjab State Power Corporation Ltd) is planning to convert one of its existing coal based Unit (Unit #4) of GNDTP (Guru Nanak Dev Thermal Plant) Bathinda (Punjab) to Biomass fed (Paddy straw specifically) Unit.

The purpose of inviting this EOI is to explore the availability of Biomass (Paddy straw) and willingness of potential supplier(s) of Biomass fuel to proposed GNDTP Unit.

1. **Introduction**

GNDTP, Bathinda has presently got four Units of capacity 2 x 110 MW and 2 x 120 MW. The generation from these Units has been stopped w.e.f. 1st Jan 2018. Now, GNDTP, PSPCL has planned to convert one of its Units (Unit #4) to Biomass (paddy straw) fed Unit mainly to harness renewable energy sources and achieve its targets of power generation under Renewable Power Obligation (RPO) targets of Biomass. Punjab is predominantly agricultural state with lot of Biomass potential available specially paddy straw. As per the data available from the various sources, it is estimated that approx. 220 lac Tonnes of paddy straw is available in Punjab alone. To prevent this biomass from burning in the fields, PSPCL has planned to utilize this in the Biomass Boiler of GNDTP. For this purpose, new boiler will be installed in place of the old coal based boiler. It is expected that Biomass Unit will be commissioned in approx 15-18 months from the time of award of contract to the EPC firm (expected award of contract is March/April-2019). It will be possible to feed paddy straw in the form of bales in this new biomass boiler. It is estimated that approx. 60-62 MW Electrical power output will be generated from this new Unit post conversion and there will be requirement of approx 4 lac Metric Tonnes (MT) of paddy straw in form of bales. This will tantamount to approx. 1200 MT requirement of paddy straw per day. It is envisaged that bales of higher capacity of the order of 300-600 kgs will be suitable to meet such a huge feeding capacity to the boiler.

For this purpose, GNDTP proposes to assess the potential biomass supplier(s) wherein:

The Biomass supplier would be responsible for aggregation, storage (either at his own location or location provided by GNDTP within premises; which may be decided later and EOI may specify the same conditions) and regular supply of quality Biomass (paddy straw bales) to the feeding point of Boiler.

A long term Fuel supply agreement (FSA) will be signed by PSPCL (say 3 to 7 years or more) with the potential suppliers of Biomass.

1. **Role of Biomass Supplier**

Following is the envisaged role (step wise) that the biomass supplier would have to execute. We envisage that the biomass supplier would need to carry out significant background work (step i to vii : time required is approximately 15 to 18 months) before commencing commercial supply to the proposed biomass Unit of GNDTP:

1. Biomass assessment
2. Village level Entrepreneur (VLE) development
3. Agreement with farmers and finalization of storage depots and its structural development
4. Land procurement or lease for storage of biomass depending upon consultation with PSPCL and planning for creation of storage facilities.
5. Machinery procurement and transportation arrangements
6. Training to VLE for collection and machinery maintenance
7. Insurance, Fire hazard protection for biomass at storage
8. Commercial supply of Biomass
9. **Qualification Criteria**

Since this is a new field of supply, so the suppliers have been differentiated into two categories i.e. Category A supplier and Category B supplier the details for which are as following:

**Category A** **supplier**: Firm(s) having experience in supplying/handling Biomass in any form and/or should have supplied such type of fuel to any Govt. or reputed private organization such as Power plant/Refinery/Process industry etc. Such firms shall be supplying such type of biomass fuel in the range of 1 lac MT or more per year (i.e. Between 50-75 percent approx. or more of the annual requirement)

**Category B supplier:** Firm(s) that are new into this field but are willing to supply such type of fuel on small scale (min 25,000 MT or more per year) (i.e. Between 20-30 percent approx. of the annual requirement)

The main qualification criteria for both these categories is as tabulated below:

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Description** | **Qualification Criteria** |
|  |  | Category A Supplier | Category B supplier |
| 1. | Capacity to supply Biomass fuel as per desired specifications to the proposed Biomass Unit at GNDTP, Bathinda (**Per Year**) | A total minimum of 1 lac MT  | A total minimum of 25,000 MT |
| 2. | Capacity to supply Biomass fuel as per desired specifications to the proposed Biomass Unit at GNDTP, Bathinda (**Average Per Day**) | A total minimum of 1200 MT | A total minimum of 1200 MT |
| 3. | Willingness to take equity/ loan by the bidder | Yes | Yes |
| 4. | Average Annual turnover of the bidder during the last three financial years upto 2017-18 | INR 02.00 Cr | INR 0.75 Cr |
| 5. | Net Worth as per the latest audited Balance sheet | Shall be positive | Shall be positive |
| 6. | Independent EPF Account | Yes | Yes |
| 7. | Black Listing from any Govt./semi-Govt. organization since last 5 years | No | No |

In addition to above the firm should possess registration no. under ESI Code, GST Act, a valid Labour license, PAN no. etc.

1. **Information to be submitted by Bidder**

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| --- |
| 1. **General Information**
 |
| 1.1 | Name of the Bidder Firm |  |
| 1.2  | Nature or legal status of the firm |  |
| 1.3 | Name and nature of the associated companies to be involved in the project with relationship and role, if any |  |
| 1.4 | Details of Registration document of the Firm (Provide details & enclose copy) |  |
| 1.5 | Registered Address of the Firm |  |
| 1.6 | Contact Person |  |
| 1.7 | Designation and Address of Contact Person |  |
| 1.8 | Email ID |  |
| 1.9 | Turnover and Net worth of the firm during last three financial years (please enclose copy of audited annual reports) | Year | Turn Over (INR Crores) | Net Worth (INR Crores) |
| **2015-16** |  |  |
| **2016-17** |  |  |
| **2017-18** |  |  |
| 1.10 | In case of subsidiary, indicate the role of parent company |  |
| 1. **Technical information regarding Biomass Supply**
 |
| 2.1 | Category of the Bidder | Category A/Category B (please specify)  |
| 2.2 | Proposed Area/radius of Operation/Collection of Biomass Fuel |  |
| 2.3 | Tentative Size (in kgs) and shape (Circular/square) of the paddy straw bale the bidder can supply |  |
| 2.4 | Tentative Price per MT for the desired specification such as GCV, moisture content etc). Bidder should specify rates for different size and shapes of bales as below:1. Square bale of size 400-600 kgs
2. Round bale of size 300-600 kgs
3. Square bale of size 20-25 kgs
 | Direct transport to site at GNDTP  | Storage at own location and the transport to site at GNDTP |
| 1)……..Rs/MT2)……..Rs/MT3)……..Rs/MT | 1)………. Rs/MT2) ………Rs/MT3)……….Rs/MT |
| 2.5 | Details of bidder’s total existing biomass storage capacity (For Full 1 year time frame) |  |
| 2.6 | Date of start of biomass handling operations such as procurement of machinery etc. |  |
| 2.7 | Details of Biomass handled in last 5 years (For Category A supplier only) |  |
| 2.8 | Any other details, terms & conditions such as payment clause, time period of Fuel supply Agreement (FSA) etc. the bidder may like to specify. |  |
| 1. **Potential Involvement**
 |
| 3.1 | Willingness of bidder to provide/own land either on lease /own for the storage of biomass fuel (Specify Quantum of land in Acres) (One acre can store approx 2000-2500 MT of paddy straw in bales form) |  |
| 3.2 | Willingness of Bidder to invest in aggregation machinery of biomass such as Cutters, rackers, Balers, tractors etc. (One baler machinery of baler producing large round size bale of capacity 300-600 kgs may cost Rs 30-50 lacs and of square size bale of size 400-600 kgs may cost from Rs 60 lacs to 1 Cr depending upon the size of bale) (Specify Quantum of equity and no. of baler machines) | ……… Crores………No. Baler Machines |
| 3.3 | Willingness to supply minimum of 1200 MT of Biomass fuel (Paddy straw in bale form) on daily basis to GNDTP site | Yes/No |
| 3.4 | Details of any other kind of biomass fuel except paddy straw that bidder can supply. (specify type/nature of fuel with quantum) |  |
| 1. **Experience and Potential Growth**
 |
| 4.1 | Availability of Contracts, quantum of supply of Biomass in MT and their INR value (list of clients to be given with details such as contract/LOI etc) |  |
| 4.2 | Potential contracts with price bids open, quantum of supply in MT and their INR value (List of clients to be given with details) |  |

1. **General Terms & Conditions**

The Bidder shall also furnish complete audited annual financial statements for the last three financial years including balance sheets, profit & loss account statement and all other schedules, self-certification of not being under liquidation, court receivership or similar proceedings in support of their fulfilling the eligibility criteria. The same has to be provided for all the partners, wherever applicable.

EOI shall be submitted in hard copy at the address given below. EOI received through Fax/E-mail etc. shall not be accepted.

EOI should be complete in all respects leaving no scope for ambiguity. It is in the interest of the bidder to submit the complete information and comprehensive proposal leaving no scope for PSPCL to raise any further questionnaire. PSPCL may evaluate the bidder on the basis of documents submitted in the first instance in order to short list the suppliers in order to adhere to the project schedule.

PSPCL will not be responsible for any cost or expenses incurred by the bidder in connection with preparation or delivery of EOI.

The bidder is required to furnish all information as desired in this EOI in English language.

PSPCL reserves the right to call the bidder for presentation and may visit the sites of the bidder. The bidder shall have no objection whatsoever in this regard and shall fecilitate PSPCL to obtain the same.

PSPCL shall not be responsible for any cost or expenses incurred by the bidder for visiting its office for presentation.

1. **Submission of EOI**

The bidder must provide a cover letter on his official letter head along with his proposal containing all the information asked in this EOI along with the supporting documents of the same. The bidder is required to drop the sealed envelope super-scribing:

**EOI: Biomass Supply to Proposed Biomass Unit At GNDTP, Bathinda**

The proposal must contain complete EOI along with all the supporting documents duly signed & stamped on each page and shall be submitted at the following address on or before the due date and time.

Address: Chief Engineer,

 Guru Nanak Dev Thermal Plant,

 Bathinda (Punjab)-151002

The bidder shall mention Company’s/Firm’s name, phone no. and name of contact person on the cover of the envelope.

**Important Note**:

In case of any clarification regarding EOI, following is the contact person:

Er Greesh Gupta Addl. S.E./Coal Handling Plant, GNDTP, Bathinda Mob. no. 9646119342

Email: girish.pspcl@rediffmail.com, girish.pspcl@gmail.com

This EOI does not constitute and will not deem to constitute any commitment on part of PSPCL to enter into any contract.

PSPCL has the sole discretion to accept or reject the proposal without assigning any reason whatsoever.

This EOI is non-binding and the purpose of this document is to ascertain the interest of prospective Biomass suppliers.

Response from any applicant parties to this advertisement doesn’t entitle them for receipt of tender enquiry for procurement at a later date.

PSPCL may not take any further action after the invitation of this EOI at its own discretion without assigning any reason thereof.