



SEIL ENERGY INDIA LIMITED

INVITATION FOR EXPRESSION OF INTEREST (EOI) for Supply of Biomass Pellets

SEIL/2026-27/WP/EOI/01

Date: 26-May-2026

SEIL Energy India Limited invites Expression of Interest (EOI) from interested bidders for supply of Biomass Pellets.

SEIL owns two supercritical thermal power plants with four 660 MW supercritical coal fired units as described here under:

1. **SEIL ENERGY INDIA LIMITED PROJECT-1** (2x660 MW) Pyanapuram/Nelaturu Village, Muthukur Mandal, SPSR Nellore -524344, Andhra Pradesh, India.
2. **SEIL ENERGY INDIA LIMITED PROJECT-2** (2x660 MW) Ananthavaram Village, Varakavipudi Panchayat, TP Gudur Mandal, SPSR Nellore -524344, Andhra Pradesh, India.

The details of the quantity requirement and the technical specifications are mentioned in Annexure-.

Interested parties are requested to submit their requirement(s) in the specified standard format (Annexure-2) to chandra.v@seilenergy.com by 17:00 hrs. of 06-Jun-2026.

INVITATION FOR EXPRESSION OF INTEREST (EOI)

for

Supply of Biomass Pellets

Ref No. EOI No. : SEIL/2026-27/WP/EOI/01

Date: 26-May-2026

This expression of interest (EOI) consists of following Parts: -



Annexure- 1: Detailed scope and technical specification

Annexure-2: Format for Submission of Response to EOI.

ANNEXURE-1

1. INTENT OF SPECIFICATION

M/s SEIL Energy India Limited (SEIL) with a diversified portfolio ~4.3 GW of thermal and renewable energy assets is a leading independent power producer (IPP). In Nellore district, Andhra Pradesh SEIL owns two supercritical thermal power plants with four 660 MW supercritical coal fired units as described here under:

-  **SEIL ENERGY INDIA LIMITED PROJECT-1** (2x660 MW) Pyanapuram/Nelaturu Village, Muthukur Mandal, SPSR Nellore -524344, Andhra Pradesh, India.
-  **SEIL ENERGY INDIA LIMITED PROJECT-2** (2x660 MW) Ananthavaram Village, Varakavipudi Panchayat, TP Gudur Mandal, SPSR Nellore -524344, Andhra Pradesh, India.

Ministry of Power has brought out the policy for “Biomass utilization for power generation through co-firing in coal-based power plants”. As per the policy all fluidized bed and pulverized coal units (coal based thermal power plants) except those having ball and tube mill, of power generation utilities, public or private, located in India, shall endeavor to use 5-7% blend of biomass pellets made, primarily, of agro residue along with coal after assessing the technical feasibility, viz. safety aspects etc. In line with the policy, CEA has also issued an advisory to all the Thermal Power Generating Plants/Utilities to endeavor to use 5-7% blend of biomass pellets made, primarily, of agro residue along with coal after assessing the technical feasibility, viz. safety aspects etc. In compliance with advisory of Central Electricity Authority (CEA), SEIL is planning for biomass co- firing in both SEIL P-1 & P-2 plants.

2. BRIEF SCOPE OF WORK:

The scope of work under this package shall include supply, loading, transport and delivery of agro residue-based biomass pellets at SEIL sites.

Unloading shall be in the scope of SEIL at the plant site located at Nellore, Andhra Pradesh provided pellets are loose filled in the carriage vehicle. Carriage vehicle should be fully covered and waterproof during transportation to prevent the material from rain, sunlight and to prevent dusting.

The pellets supplied shall adhere to the technical specification given in the RFP document.

Detailed scope and methodology of Registration is as specified in the RFP document.

3. SCOPE OF WORK

The scope of work under this package shall include supply, loading, transport and delivery of agro residue-based biomass pellet at SEIL sites. Unloading shall be in the scope of SEIL at the respective Plant location, provided pellets are loose filled in the carriage vehicle. Carriage vehicle should be fully covered and waterproof during transportation to prevent the material from rain, sunlight and to prevent dusting.

- If supplier supplies the material packed in bags, consignment shall not be accepted, or supplier shall unload the material at his own cost. In that case, for any extra halt of carriage vehicle, demurrage shall not be payable by SEIL.
- The pellets supplied shall adhere to the technical specification given in tender document. Detailed scope of work is as specified in the Application Document including Technical specification.

Technical Specifications

A. Technical Specification of Non- Torrefied / Torrefied Biomass pellets:

The bidder shall supply Non-Torrefied / Torrefied Pellets and its GCV (ARB*). The pellets shall have technical specification as given in following Table-1.1 & 1.2.

Any variation in GCV or Fines % age beyond the limit specified in technical specification shall be rationalized as per Price and Quantity Adjustment formula as given in this document.

The technical specification of torrefied pellets shall be as listed below (Table-1.1)

Sl. No	Technical data	Unit	Specification for Torrefied pellets
1	Base material	-	Agro residue/ crop residue
2	Diameter**	mm	In case of cylindrical shape: Diameter: Not more than 35 mm Length: Random For other shapes: No dimension should exceed 35 mm.
3	Fines% (length<3 mm) (ARB*)	Wt %	Fines ≤ 5%
4	Gross Calorific Value (GCV-ARB*)	kCal/Kg	Not less than 3000 kCal/Kg
5	Moisture (ARB*)	Wt %	≤ 15% (not more than 15%)

The technical specification of Non-torrefied pellets shall be as listed below (Table-1.2)

Sl. No	Technical data	Unit	Specification for Non -torrefied pellets
1	Base material	-	Agro residue/ crop residue

2	Diameter**	mm	In case of cylindrical shape: Diameter: Not more than 35 mm Length: Random For other shapes: No dimension should exceed 35 mm.
3	Fines% (length<3 mm) (ARB*)	Wt %	Fines ≤ 5%
4	Gross Calorific Value (GCV-ARB*)	kCal/Kg	Not less than 3400 kCal/Kg
5	Moisture (ARB*)	Wt %	≤ 14% (not more than 14%)

*ARB - As Received Basis

**During contract period, diameter of pellets may be revised/modified on mutual consent basis without any financial/cost implication to either SEIL or supplier.

B. RAW MATERIAL FOR PELLET MANUFACTURING

□ Base material for pellet manufacturing shall be agro residue which means the leftover portion of the agriculture produce such as stubble/straw/stalk/husk of those agro residue which are surplus and not being used as animal fodder such as paddy, soya, arhar, gwar, cotton, gram, jawar, bajara, moong, mustard, seasam, til, maize, sunflower, jute, coffee etc., groundnut shell, coconut shell, castor seed shell etc., pine needle, elephant grass, sarkanda and horticulture waste such as dry leaves and trimmings generated during the maintenance and pruning of trees and plants.

- Agro residue-based biomass pellets can be manufactured by mixing single or multiple base material together.
- Mixing material such as byproduct of woodwork factory such as wood chips, saw dust, furniture waste etc., bagasse, press mud, molasses, bamboo dust or natural

additives/binder such as lignin, starch, and animal dung may also be used with agro residue in limited proportion to enhance material properties and same shall be explicitly mentioned by supplier in consignment details.

- Wood obtained from tree cutting shall not be treated as agro residue and shall be not to be used as base material or mixing purpose whatsoever.
- SEIL shall reserve the right to exclude any Base material/ Mixing material/additive/ binder or modify their proportion, if any adverse impact of the Base material / Mixing material/additives/binder is found on boiler in long run.
- Pro-rata upward/ downward price adjustment shall be done for actual GCV w.r.t. price quoted for specified GCV within stipulated limits.
- The above indicated characteristic parameters of the pellets are intended to be adhered to and maintained by the manufacturer/ supplier. No price adjustment shall be done for the pellet supplies made as per above specification. The price adjustment shall be made for variation of key technical parameters from the specified values as described in subsequent clauses of this specification.

C. ADJUSTMENTS FOR VARIATION IN KEY TECHNICAL PARAMETERS

PRICE ADJUSTMENT FOR GROSS CALORIFIC VALUE (GCV)

If Based on the Base material and Mixing material as per technical specification, Bidder is required to quote GCV value of biomass in Kcal/Kg for Non-Torrefied/ Torrefied within the range as mentioned below.

In case of Non-Torrefied Pellet

Minimum Limit- 3000 Kcal/Kg

Maximum Limit-4000 kcal/Kg

In case of Torrefied Pellet

Minimum Limit- 3400 Kcal/Kg

Maximum Limit-5000 kcal/Kg

Supplier shall supply the agro residue-based biomass pellets of GCV not less than 3000 kcal/kg (for Non- Torrefied pellets) and 3400 kcal/kg (for Torrefied pellets).

For GCV ≥ 3000 kcal/kg (For GCV more than or equal to 3000 kcal/kg for Non- Torrefied pellets) & For GCV ≥ 3400 kcal/kg (For GCV more than or equal to 3400 kcal/kg for Torrefied pellets) Upward pro-rata price adjustment shall be done for GCV variation of supplied material as per following formula: -

$$\text{Adjusted price} = \frac{(\text{Quoted Price}) \times \text{Actual GCV (ARB)}}{\text{Quoted GCV(ARB)}}$$

In case upward GCV variation is more than the Maximum Limit for Non- Torrefied/ Torrefied pellet then Price adjustment on account of GCV shall be limited to Maximum Limit for Non Torrefied/Torrefied pellet only.

In case of GCV (ARB) is less than Minimum GCV value mentioned above, No payment shall be made for already delivered and consumed material of GCV less than minimum value.

Note: In case, supplier is found to frequently supply the material of GCV less than Minimum value or found to take deviations in other technical parameters, warning letter shall be issued to supplier.

However, if material is supplied below Minimum value in more than 3 (Three) instances during the currency of contract even after issuing warning letter then Contract shall be liable for cancellation. Material supplied of GCV less than Minimum value is liable for rejection and no payment shall be made for already delivered and consumed. The minimum and Maximum limits of the GCV is for

As Received Basis (ARB). Actual GCV shall be measured at SEIL site in As Received Basis (ARB)

D. RECOVERY ON ACCOUNT OF EXCESS FINES IN CONSIGNMENT

Biomass dust, crushed/ broken/ damaged pellets of length less than 3 mm in consignment as received at SEIL site (i.e. portion of sample not passing through 3 mm mesh size sieve) shall be treated as fines and there shall be recovery on account of excess fines (ARB) if it is beyond 5%.

The recovery on account of excess fines will be worked out as per the following formula.

$$\text{Recovery} = (\text{Adjusted Price}) \times W \times (\text{Actual Weight \% of fines} - 5\%)$$

W – Weight of Consignment as received.

However, there shall be no additional payment to vendor if fines are less than 5%. This amount shall be recovered from the payment of respective consignment.

E. REJECTION LEVEL

The consignment of biomass pellets arrived at Utility shall initially be tested for following before unloading and shall be rejected in case any of the following parameters exceed the rejection level given in Table-2 below:

S. N.	Technical data	Unit	Rejection level
1.	GCV (As Received Basis)	kCal/Kg	Less than 3000 (for Non-Torrefied) Less than 3400 (for Torrefied)
2.	Moisture (As Received Basis)	Weight %	More than 15%. (for Torrefied) More than 14% (for Non-Torrefied)

F. TESTS, STANDARDS AND SAMPLING

TESTING STANDARDS / METHODS

Biomass pellets sample shall be tested for various parameters in owner's power plant site lab as per following or equivalent standard given in the Table- 3 below:

Table -3 Testing & Standards

S.N.	Technical data	Testing Standard/ Method
1.	Dimensions/ Diameter & length	ISO 17829 or equivalent method may be referred.
2.	Fines% (ARB*)	ISO 18846 or equivalent method may be referred.
3.	Gross calorific value (ARB*)	IS 1350 or equivalent method may be referred.
4.	Moisture (ARB*)	IS 1350 or equivalent method may be referred.
5.	Ash (ARB*)	IS 1350 or equivalent method may be referred.

Note: * ARB – As Received Basis

SAMPLING ANALYSIS AT LOADING END (SUPPLIER SIDE)

- Each consignment should be accompanied by general details (such as name of company/firm/agency, address, date of dispatch, batch number, vehicle type and number, weight of consignment etc.) and technical details which shall contain the values of all parameters specified in Table-1 above.
- The charges incurred on account of sampling analysis at loading end shall be borne by the supplier.

SAMPLING ANALYSIS AT RECEIVING END (OWNER SIDE)

- 10 kg or appropriate amount of sample shall be collected from each carriage vehicle/ consignment on random basis either prior to unloading or during unloading or after unloading or from conveyor belt or as per methodology mutually agreed between supplier(s) and the owner.
- The authorized representative(s) of owner and supplier will jointly witness the process of sample collection and preparation of the laboratory samples. All representatives shall put their signature on the sample tags as evidence of the process of sampling. Testing process may also be witnessed by representative of supplier.
- Before unloading, samples shall be tested for moisture and constituent particle size distribution (or HGI) . If any of these values come out to be beyond the rejection level as

given in Table- 3 above, the consignment shall be rejected, and it shall be the supplier's responsibility to carry it back at his own cost

The owner shall arrange for determination of fines part of pellets as per durability test at his plant site and fines proportion of biomass pellets shall be assessed and fines percentage shall not exceed more than 5%.

The collected sample shall be distributed in three parts as below:

Part-1:	For test and analysis in owner's power plant lab/ mutually agreed third party lab
Part-2:	Shall be handed over to supplier/ supplier's representative.
Part-3:	Shall be the referee sample which will be sealed and the representatives from both sides shall put their signature on the sample tag. The sealed referee sample shall be kept in a safe box/ almirah at owner's plant site.

Part-1 sample shall be tested for GCV, moisture, ash content, fines and particle size distribution/ HGI etc. regularly which shall be used for quantity/ price adjustment, payment purpose and also to ascertain rejection parameters. Analysis report by supplier shall be treated as indicative only.

In case, supplier is supplying more than one carriage vehicle/ consignment in a day, a composite sample (Part-1, Part-2 and Part-3) for whole day may be prepared by mixing appropriate amount of samples collected from different carriage vehicles/ consignments which shall be used for quantity/ price adjustment and payment purpose. However, the rejection parameters shall be ascertained by testing samples only from individual carriage vehicle/ consignment.

Test report by the owner shall be sent to supplier after sample testing through e-mail. In case, supplier is not satisfied with the test results of owner which is being used for price and quantity adjustment, the sealed referee sample (Part 3) kept at owner's plant site in safe box/ almirah, shall be tested in a NABL accredited laboratory as notified by owner from time to time, expense of which shall be borne by supplier and shall be adjusted

against payment of consignment. NABL accredited laboratory report of referee sample shall be final and binding on both the parties.

The referee sample be used only in case of conflict in quantity and price adjustment, whereas, in case of rejection of consignment due to moisture (ARB) and particle size distribution (or HGI), owner's plant lab test results shall be treated sufficient for rejection and no further third party test of referee sample shall be carried out.

In case supplier fails to provide its representative for witnessing the sampling process, owner's lab report shall be final. No third-party test shall be carried out in such case.

Further, in case, owner fails to perform sampling of consignment due to any reason attributed to him, the test report of supplier sent with consignment shall be treated as final for payment.

No claim regarding quantity/ price adjustment shall be entertained after 15 days of owner's lab test report sent to supplier through e-mail by the owner.

G. MODE OF TRANSPORT

Default mode of transport is covered truck with water proofing arrangement.

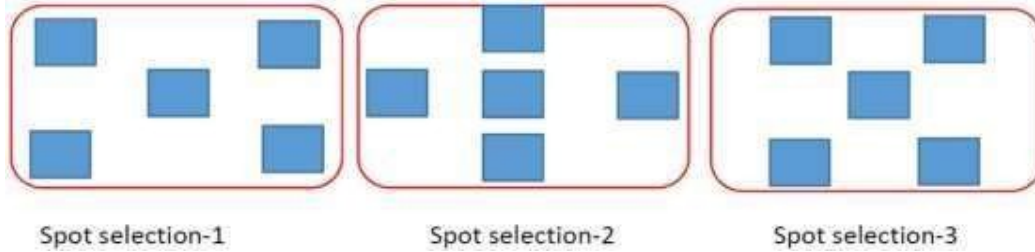
Unloading shall be in the scope of SEIL site provided torrefied/Non- torrefied pellets are loose filled in the carriage vehicle.

If supplier supplies the material packed in bags, consignment shall be accepted only if the supplier shall unload the material at his own cost. In that case, for any extra halt of carriage vehicle, demurrage shall not be payable by SEIL

H. SPECIFIC SCOPE OF WORKS & TERMS

- a. The site/location for Sampling, Weighment and Unloading Point will be identified by SEIL station. The trucks shall be sent for Sampling, Weighment and Unloading after verifying all the documents. In any of such events, for any extra halt of carriage vehicle due to delays, demurrage shall not be payable by SEIL. Sampling may be done at unloading yard or as identified by SEIL sites.

- b. In case of rejection of consignment, it's supplier responsibility to carry it back at its own cost.
- c. SEIL-Station will collect the gross weight and the tare weight of the carriage vehicle, and the net weight will be calculated. Net Weight Quantity of Pellets received at SEIL power station will be final for the purpose of assessment of executed quantity and payment.
- d. Extraneous Material (For material other than specified in Technical Specification): Successful Bidder is to ensure that Pellet is free of foreign /extraneous material etc., failing which SEIL shall ask Supplier to segregate as well as recover up to contracted landed price for ten times of weight of the extraneous material or 0.5% of FOR Biomass Pellet value of truck whichever is higher.
- e. Successful Bidder is to ensure that raw materials such as Base material and Mixing material to be sourced from domestic sources only as specified in the Technical Specification: Raw Materials for pellet Manufacturing.
- f. Sampling methodology: The biomass sample should be representative sample, means it should have pellets of all sizes (small, medium, large) etc. The collected sample should represent the truck/ consignment. For the purpose of rejection test before clearance for unloading, each truck/consignment shall be tested for moisture by SEIL. For testing of GCV and other technical parameters, single composite sample shall be prepared for all the consignments received in a day from a particular vendor. For avoidance of doubt, in case supply is from multiple vendors in a day, vendor-wise sample shall be prepared for all the consignment received in a day.
- g. The sample quantity of approximately 30 Kg is to be collected from each truck/consignment from 4-5 randomly selected spots on the truck top after removing biomass pellet layer of approximately 25-30 cm depth from the top. Approximately 5-6 kg of sample is to be collected from each spot.
- h. Five spots are selected for sampling of biomass pallet as shown in figure below. Any one spot selection option will be decided by SEIL sampling staff after viewing the biomass loading pattern. Spot selection is not in vendor's scope.



For testing of moisture for rejection test for unloading clearance

After collection of samples from the truck as stated above, thoroughly mix the pellet samples and collect approximately 1 Kg of representative sample for carrying out rejection test.

For testing of GCV and other technical parameters

Do the conning and quartering of the rest of the sample, till the sample quantity is reduced to 4-5 Kg as explained below:

Example - Suppose one collects 30 Kg sample from One truck and total no of trucks received in a day from a particular vendor is 'N' then the total pellet sample collected will be around '30N' Kg. 'N' can be 1,2,3 ...or so on.

Prepare a cone (heap) of '30N' Kg and divide the cone from top to bottom and remove the half portion (left or right). Further, prepare the cone for remaining '15N' Kg of pellet and divide the heap and remove the pellet of side opposite to the side of previous removal. Now, the balance available qty of pellet is '7.5N' Kg and continue this process till the pellet sample is reduced to '4-5' Kg. The final laboratory sample shall be distributed for determination of GCV and another technical parameter.

I. QUANTITY OF SUPPLY & OTHER REQUIREMENTS

The total quantity of biomass pellets for to be supplied for SEIL P-1 & SEIL P-2 by the bidder during the contract period shall be as below.

- Total Pellets required for the SEIL P-1 shall be as below

Non- Torrefied Pellets - 500 TPD

Torrefied Pellets - 500 TPD

- Total Pellets required for the SEIL P-1 shall be as below

Non- Torrefied Pellets- 500 TPD

Torrefied Pellets - 500 TPD

The consignment of biomass pellets shall be delivered at owner's thermal power plant, transported

by trucks/dumpers. Depending upon quantity to be supplied, number of consignments per day shall be as per mutual agreement with the owner.

If required by owner, the scheduled quantity of pellets to be supplied by the bidder to the power plant may change. In such case, the changed delivery schedule shall be sent by owner to the supplier, say three (3) day in advance at his official e-mail ID or by other means, indicating revised quantity of biomass pellets to be delivered (which may even be zero) and supplier shall dispatch the consignment accordingly. The maximum quantity to be supplied per month shall be informed during finalization of contract.

Supply by each agency shall be strictly as per monthly scheduling given by the plant and accordingly, payments shall be released.

Format for Submission of Response to EOI

(On official letter head of the Bidder)

EOI for supply of Biomass Pellets

Sl. No.	Description	Details
1	Name of the Bidder	
2	Status (Company / Individual / Partnership firm)	
3	GST No, as may be applicable	
4	PAN No.	
5	Production / Service Capacity per Annum	
6	Location and Address of Production / Service Facility	
7	Registered Address / Communication Address	
8	Mobile No	
9	Email Id	

Date:

Place:

Signature:

Name: