

EXPRESSION OF INTEREST (EOI) FOR SUPPLY OF BIOMASS PELLETS JINDAL POWER LTD. TAMNAR RAIGARH (C.G.)

INTRODUCTION

Jindal Power Limited (JPL) is a leading power company in India across the energy spectrum: thermal, hydro and renewable. JPL has been contributing significantly to the growing needs of power in the country and its installed capacity is 3400 MW consisting of Stage I - 4x250 MW and Stage II - 4x600 MW in Tamnar, Chhattisgarh. JPL with its total operating capacity of 3400MW intends to utilize agro residue-based pellets along with coal for power generation through biomass co-firing which is one of the effective solutions to mitigate carbon emission.

Jindal Power Limited, Tamnar, Raigarh (Chhattisgarh) is committed for the successful implementation of "National Mission on use of Biomass in Thermal Power Plant". Ministry of Power (Mop) issued revised policy dated 8th Oct 2021 with notification number 11/86/2017, for Power generation through Co-firing of Biomass in Coal Based Power Plants. The Policy mandates use of 5% to 10 % blend of Biomass pellets made, For 1st year 5% and the obligation shall be increased to 7% with effect from two years from date of issue of guideline primarily agro residue along with Coal. In order to meet the said requirement, Jindal Power limited is hereby inviting Expression of Interest (EOI) from interested and eligible parties for "SUPPLY OF BIOMASS PELLETS TO JINDAL POWER LTD. TAMNAR RAIGARH (C.G.)

Table of Contents

1. SCOPE OF WORK
2. RAW MATERIAL FOR PELLET MANUFACTURING
3. PERIOD OF CONTRACT
4. PRICE AND ITS EFFECTIVENESS
5. QUANTITY DETERMINATION
6. QUALITY DETERMINATION
7. COMPUTATION METHODOLOGY FOR VARIOUS RECOVERIES/QUANTITY ADJUSTMENTS
8. BILLING AND PAYMENT TERMS

1. SCOPE OF WORK

1.1 The scope of work under this package shall include supply, loading, transport, unloading and delivery of agro residue-based biomass pellets at Plant site. The pellets supplied shall

adhere to the technical specification given in bid document. Detailed scope and methodology are as specified in the bid Documents.

Details of Material and supply duration:

Sl. No.	Description of Item	Indicative Quantity [to be supplied in Tonnes per day (TPD)]	Total Qty. (Tonnes)
1	Agro residue based Biomass pellets	320 MT	116793 MT

Note: The daily requirement estimated above is indicative only and may change based on the actual plant load factor and requirement.

1.2 Table-1: Technical Specification for Agro residue-based Pellet.

Sl. No	Technical Data	Unit	Specification for Torrefied / Non-Torrefied pellets
1	Base Material	NA	Agro Residue / Crop Residue (wood based pellets will not be acceptable)
2	Diameter	mm	Preferred 8 to 8.5 mm Not more than 25mm
3	Length	mm	Not more than 35mm
3	Bulk Density	Kg/m ³	Not less than 600
4	Fines%(Length<3mm) (ARB*)	wt.%	Fines<=5%
5	Moisture (ARB)*	wt.%	Not more than 14% Preferred < 8.5 % or
6	Gross Calorific Value (ARB)**	Kcal/Kg	Non-Torrefied : 3400-4000 Torrefied : 4000-5000
7	Hard Groove Grindability Index (HGI)		Not less than 50
8	Particle size distribution (After crushing and pulverizing in site lab pulveriser)	%	3 mm plus size < 5% 2 – 3 mm size : 10 to 12 % 1 – 2 mm size : 10 to 15 % Below 1 mm size : 75 to 78 %
9	Ash (ARB*)		Preferred: < 5% Not more than 20%

* ARB – As Received Basis

** GCV ranges are indicative

1.3 Mode of transportation:

a) The default mode of transportation is covered hydraulic dump truck with the waterproof arrangement, however, the supplier may also offer transport by rail mode with the prior consent of the respective power plant management.

b) Unloading shall be in the scope of Power Plant provided material is loosely filled in the hydraulic dump truck. Hydraulic dump truck should be fully covered and waterproofed during transportation to prevent the material from rain, sunlight and dust aspects.

c) The supplier may supply the material i.e. Biomass pellets packed in bags with prior consent of JPL. In that case, the supplier shall unload the material at his own cost and extra charges, if any, shall be borne by the supplier.

1.4 Before unloading, samples shall be tested for GCV, Ash, and moisture content. However, the HGI report shall be submitted by the Supplier with each carriage vehicle/consignment at the time of supply.

1.5 Demurrage, if any, on the carriage vehicle for reasons attributable to the Supplier will be borne by the Supplier.

2. RAW MATERIAL FOR PELLET MANUFACTURING

a). 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 residues which are surplus and not being used as animal fodder such as paddy, soya, arhar, gwar, cotton, gram, jawar, bajara, moong, mustard, sesame, 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 base should not be used from any material which may produce oil residue during the process of pulverization and processing as the oil residue will reduce the flow ability of the coal mass and may be fire prone inside the mill.

b). Successful Bidder has to submit documentary evidence in the form of Certificate from State Authority from where the paddy straw has been sourced.

c). Agro residue-based biomass pellets can be manufactured by mixing single or multiple base materials together.

d). Mixing material such as by-products of woodwork factory like wood chips, sawdust, 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 the same shall be explicitly mentioned by the supplier in consignment details.

e). Wood obtained from tree cutting shall not be treated as agro residue and shall be not be used as base material or for mixing purposes whatsoever.

f). The supplier shall mention the name(s) of agro/crop residue(s) used for manufacturing Torrefied / non Torrefied pellets and their approximate proportion in consignment details during the dispatch of material.

g). Natural additives/binder such as lignin, starch, animal dung, etc. can be used for manufacturing Torrefied / non Torrefied pellets if required and the same shall also be explicitly mentioned by the supplier in consignment details.

h). JPL (Owner) reserves the right to exclude any base material/additive/ binder or modify their proportion as per the Chhattisgarh Government guideline or if any adverse impact of the base material/ additives/binder is found on the boiler in long run.

3. PERIOD OF CONTRACT

3.1 Period of contract:

a) Supply Duration: The bidder should ensure supply on continuous/daily basis for period considered as per the condition mentioned in document or directed by JPL as per the requirement. The period of contract shall be for a minimum period of one year. Further, after award, if the supplier is not able to supply the allocated quantity of pellets to Plant due to any reason attributed to Plant or reason mentioned in force majeure clause, an additional three-month grace period corresponding to one year of supply period shall be provided to the supplier. In this grace period, the supplier shall be able to supply leftover quantity out of the total allocated quantity of pellets.

b) Delivery Commencement: The supplier shall commence delivery of material within 07 days from the issue of the Purchase Order.

3.2 Delivery Address: The consignment of pellets shall be delivered to the following address:

Jindal Power Ltd

Registered Office: Tamnar 496 107, District Raigarh, Chhattisgarh

T + 91 7767 281701-08 / 302000 / 302004 F +91 7767 281995-281993

Corporate Office: Jindal Centre, 12 Bhikaji Cama Place, New Delhi 110 066

W www.jindalpower.com

3.3 Delivery Schedule:

Default delivery schedule shall be the quantity allocated to the supplier for the supply of pellets on staggered quantity or as per requirement on daily basis as decided by JPL , which is 320 MT per day. Accordingly, the supplier shall deliver that quantity of pellets to the Plant site.

There should be continuous off take of the biomass by the plant as per the terms of the contract. Purchaser should restrict the supply from the supplier due exigency happens or barring supply in monsoon period and with mutual consent with the supplier.

Although the supplier shall supply the pellets as per the above delivery schedule, however, the supplier shall have the flexibility to supply the material in higher quantity than the delivery schedule on mutual consent basis to meet the annual supply requirement. In such a case, the supplier shall give one-week advance intimation to the Plant site and the site shall give the consent to supply material in higher quantity after assessing traffic congestion or other aspects as required.

Purchaser can also give a reduced daily delivery schedule to the supplier by giving one-week advance notice through the official e-mail ID of the Engineer-in charge or e-mail ID of any other person authorized by him and the supplier shall dispatch the consignment accordingly.

Maximum variation in Biomass monthly off take of Plants shall be within $\pm 15\%$ of the contracted quantity.

3.4 Technical Requirement:

a) Bidder should have Minimum supply capacity of 50 TPD. Bidder to submit credential (POs /certificates / customers letters etc.) demonstrating 50 TPD supply of biomass pellets contract/s executed or under execution in the last 2 years. New supplier having no past experience may submit supporting credential of production capacity to supply 50 TPD.

b) Bidder should have executed at-least one contract including scope of supply including transportation / logistics responsibility. New supplier having no past experience of logistics may submit supporting credential of logistics capability through their own / tie-up's.

c) Bidder shall confirm to meet the detailed technical requirement as mentioned under Table– 1 of this document

4. PRICE & PRICE BASIS & ITS EFFECTIVENESS:

4.1.1 The Supplier shall quote its most competitive prices for the Scope of Work. Any quantity which is allocated during the Contract period but not delivered during the Contract period will be executed at the price applicable for that specific Contract period along with the same terms and conditions under the Contract.

4.1.2 Price Variation:

a) The prices shall remain fixed and binding on the Supplier and shall not be subject to any variations for any reason whatsoever during the term of the Contract and any rollover period until the entire ordered quantity is received at the JPL Plant.

b) However, statutory variations (increase or decrease) on account of the change in statutory taxes & duties, introduction of any new tax, withdrawal, or modification of any tax shall be passed through during the period of Contract. Documentary evidence shall be required from the Supplier for the same.

4.1.3. The rates quoted by the Supplier in the Price Bid be deemed to cover the cost of all the relevant operations/works mentioned in this Bid Document. No claim for any increase in cost shall be entertained on any account.

4.2 Liquidated Damages (LD):

4.2.1 The Supplier shall have to commence delivery of material within 15 days from the date of issue of the Purchase Order. To facilitate initial capacity ramp up, no Liquidated Damage shall be levied for initial 30 days from the delivery start date (hereinafter referred to as 'NO LD period').

4.2.2 Liquidated Damage (LD) shall not be applicable for short supply up to 15% in a month against aggregate of daily delivery schedule in that month. However, for monthly short supply beyond 15%, liquidated damage (LD) shall be recovered from supplier @ 5% of price of the biomass pellets for shortfall quantities.

4.2.3 Although the Supplier shall supply the material as per quantity ordered to supply on a daily basis (i.e. 723 MT per day), the Supplier shall have the flexibility to supply the material in higher quantity than offered to supply on daily basis on mutual consent basis to meet the annual supply requirement.

4.2.4 In such case, the supplier shall give one-week advance intimation to the Plant site and the site shall give the consent to supply material in higher quantity after assessing the traffic congestion or other aspects as required.

4.2.5 Modification of the Purchase Order quantities by Generating utilities up to a maximum reduction of procurement may be done by giving notice during the supply period. Further reduction in order quantity and /or notice period, if any, may be done with mutual agreement between the Supplier & purchaser.

4.2.6 Further, in case the supplier realizes that it has quoted higher quantities than its capabilities, in that case, the PO may be revised with a maximum reduction of 15% by giving three-month' notice. Further reduction in order quantity and /or notice period, if any, may

be done with mutual agreement between the Supplier & purchaser. However, Supplier has to pay penalty for short supply, if any, till the revision of PO.

4.2.7 Penalties for short supply calculated on monthly basis will be levied at the rate of 5% of the awarded price for the shortfall quantity.

4.2.8 GST extra as applicable shall also be levied on Liquidated Damages.

4.2.9 Total amount of LD for shortfall in supply shall not exceed 5% of the total contract price or as per JPL guideline.

5. QUANTITY DETERMINATION

a). Weighing of vehicles shall be carried out on weighbridges (for tare and gross) at Power Plant. The Supplier may witness the weight of vehicles once in 15 days; JPL representative will accompany the Supplier representative when any such visit is carried out. Supplier shall intimate JPL representative via e-mail at least two days in advance about the date of such visit.

Net weight =Gross weight less the Tare weight, both as measured at Power Plant weighbridge

Power Plant may provide a copy of calibration certificates of weighbridge if requested by the Supplier. Power Plant shall undertake the calibration of Weigh Bridge in line with the schedule/practice as recommended by Legal Metrology.

b). Any other contingency may be mutually discussed and settled.

c). Net adjusted quantity received at the Plant i.e. quantity worked out by Power Plant after carrying out adjustment due to quality variations for the Base Parameters, if any, shall be applicable for payment.

6. QUALITY DETERMINATION

6.1 Power Plant will carry out the sampling and analysis of Torrefied / non Torrefied pellets at Power Plant as per the provisions of either BIS or ASTM at the option of Power Plant. Power Plant will carry out the sampling and testing process as per the relevant BIS (IS 436 Part-1) standards for vehicle top sampling.

6.2 The authorized representatives of Power Plant and pellet supplier shall jointly witness the process of sample collection and preparation of the laboratory samples. The representatives shall put their signature on the sample tags in evidence of the process of sampling. Both consumer and pellet supplier shall sign on the samples register maintained by the Power Plant at the unloading end.

6.3 For purpose of rejection test before unloading, samples shall be tested for moisture content by Power Plant. If test result of any sample collected from a truck/consignment

meets Technical parameter criterion for moisture content as given in (Table 1) then truck will be allowed for unloading, otherwise, truck (Consignment) will be rejected if test result meets the rejection criterion as given in (Table 3) and it shall be the supplier's responsibility to carry it back on his own cost.

6.4 For testing of GCV and other Technical parameters, single sample shall be prepared for all the consignments received in a day from a particular Supplier. For avoidance of doubt, in case supply is from multiple Suppliers in a day, Supplier-wise sample shall be prepared for all the consignment received in a day.

6.5 The final laboratory sample shall be divided into 3 (three) parts. Part-1 of the sample is for analysis of GCV and other technical parameters by Power Plant lab at site. Part-2 sample is to be handed over to the pellet supplier for its own analysis. Part- 3 of the sample, called Referee sample, shall be sealed jointly and shall be kept with Power Plant under proper lock and key arrangement.

6.6 The Power Plant's representative will have the right to witness sampling and testing of pellets for the Base Parameters at the loading end.

6.7 The supplier's representative will have the option to witness the sample collection, preparation, testing of the main sample, and final packing of the reserve sample. Any dispute related to sampling, preparation, and analysis activity has to be raised strictly within 48 hours of the respective activity. Further, any dispute related to testing results may be raised strictly within 7 days of the declaration of the results by the Power Plant. The disputes concerning sampling and testing may be entertained only if backed up by logical and justifiable reasons. Frivolous/repeated disputes may invite penal action by JPL.

6.8 As this process of sampling and preparation is a continuous round the clock process to deal with the multiple consignment workloads, so Power Plant would carry out the process as per the time deemed suitable for the process. Hence, it is the responsibility of the supplier's representative to be available at all times to witness the same.

6.9 JPL may request Supplier to withdraw representative who is not diligent and/or is not cooperative. Frivolous/unreasonable objections to the sampling and testing process at Power Plant will not be entertained. It may be noted that witnessing testing (if any) carried out outside the Power Plant lab will not be feasible and should be avoided.

6.10 JPL may also consider (at its option) sharing part of the sample (third sample) with the Supplier. The third sample is for reference of the Supplier only and results of analysis of the third sample will not be considered for determining the payments.

6.11 Referee samples will be preserved in the JPL laboratory under locked almirah in sealed condition in a moisture-free area for 15 days (from the date of declaration of such results) in the safe custody of the JPL.

6.12 Generally, Quality reports will be generated within 7 working days of receipt of the material and the same will be communicated to the Supplier, subject to receipt of loading end quality report.

6.13 In case dispute is raised within the stipulated time period, the Reference sample shall be analysed in a NABL accredited laboratory as notified by JPL from time to time, expense of which shall be borne equally by both JPL and pellet supplier. Expense borne on supplier part shall be adjusted against payment to the supplier. NABL accredited laboratory report of referee sample shall be final and binding on both the parties.

6.14 It may be noted that referee samples shall only be used in case of conflict of quality and price adjustment, whereas, in case of rejection of consignment due to Total moisture (TM) content, JPL reported TM content result will be final and binding.

6.15 To prevent misuse of the facility by disputing the majority of results of the lot, JPL will abort this reserve testing process in case if the reserve sample results (first two) are within the repeatability limits (as per BIS 1350) from original results. In this case, original results will be considered for payment purposes.

6.16 Any pellet that is received at JPL Plant will not be returned/ permitted to be collected by the Supplier unless agreed to in writing by JPL.

6.17 Standards/Methods as per the table below will be referenced / used for quality determination:

Sl. No.	Technical Data	Testing Method/Standard
1	Dimension (Diameter & Length)	ISO 17829 or Equivalent method may be referred
2	Fines (%)	ISO 18846 or Equivalent Method may be referred
3	GCV(ARB)	IS 1350 or equivalent method may be referred
4	Moisture content (ARB)	Method based upon IS 1350 or equivalent method may be referred (Hand-Held Moisture Meter may also be used)
5	HGI	ISO 5074 or equivalent method may be referred

6.18 For Determination of Total Moisture (TM) content:

a. Samples shall be collected from each truck/dumper for TM determination.

b. TM will be determined by JPL lab validated method based on IS 1350,

(10g of 2.90mm passing sample will be heated for 2 hours at 108 +/- 2 Deg C. Total Moisture will be computed as per the formula below:

$$TM\% = (W1-W2) \times 100 / W1$$

Where: W1= Initial Weight of Sample (10 grams)

W2= Final Weight of Sample.

Note: Before unloading, samples shall be tested for moisture at Station end. If this value is in the rejection level range, the consignment shall be rejected and it shall be the suppliers' responsibility to carry it back at his own cost.

7. COMPUTATION METHODOLOGY FOR VARIOUS RECOVERIES /QUANTITY ADJUSTMENTS

7.1 The supplier shall guarantee technical parameters of agro residue-based pellets as given in table-1 under clause 1.2. The characteristics contained in Technical Specification (table-1 under clause 1.2.) shall be adhered to and maintained and non-adherence shall result in 'Quantity and Price Adjustment' as per clause 7.2 or even rejection as per clause 7.4 of this volume.

7.2 Acceptance range with/without pro-rata price / quantity adjustment:

7.2.1 The agro residue-based pellets supplied shall conform to technical specifications as given in Table-1 under clause 1.2. But, in case consignment of agro residue-based pellets does not meet the guaranteed parameters for GCV, moisture content, and fines %, but are within the acceptable limit as given in table 2, the consignment shall be accepted but with a pro-rata price/ quantity adjustment as applicable.

Table 2: Parameters on Acceptable Limits

Sl. No.	Technical Data	Units	Acceptance range Without Price /Quantity adjustment	Acceptance range with prorata Price / Quantity adjustment
1a	Gross Calorific Value (ARB*) – Torrefied	Kcal/Kg	As per clause 7.2.2.1	
1b	Gross Calorific Value (ARB*) – Non torrefied	Kcal/Kg	As per clause 7.2.2.2	
2	Total Moisture (ARB*)	Wt%	Not more than 14%	
3	Fineness% (ARB)	Wt %	Fineness<= 5%	Fineness > 5%

*ARB: As the received basis.

7.2.2 Price Adjustment for Gross Calorific Value (GCV) If a consignment of agro residue-based pellets does not meet the guaranteed parameters for Gross Calorific Value (ARB) but is within the acceptable limit, the consignment shall be accepted but with pro-rata upward or downward price adjustment as calculated using the following formula:

7.2.2.1 Torrefied pellet:

a). Stipulation of limits for Quoted GCV: Based on the Base material and Mixing material as per technical specification, Bidder is required to quote GCV value of biomass in Kcal/Kg within the range as mentioned below:

b). In case of Torrefied Pellet

Minimum Limit- 4000 Kcal/Kg

Maximum Limit-5000 kcal/Kg

c). Supplier shall supply the agro residue based Torrefied biomass pellets of GCV not less than 4000 kcal/kg. Price shall be adjusted for GCV variation of supplied material as below:

For GCV (ARB) \geq 4000Kcal/Kg [For GCV more than or equal to 4000 Kcal/Kg]

d). Pro-rata price adjustment shall be done for GCV variation within

Acceptable GCV range of supplied material as per following formula: -

$$\text{Adjusted FOR price} = [\text{Quoted FOR price} \times \text{Actual GCV (ARB)}] / \text{Quoted GCV(ARB)}$$

*FOR Price- FOR Destination Price

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

f). The downward GCV variation from Minimum limit, pro-rata price adjustment shall be done for GCV variation of supplied material as per following formula:

For GCV 4000 Kcal/Kg $>$ GCV \Rightarrow 3600 Kcal/Kg [For GCV less than 4000 Kcal/Kg AND more than or equal to 3600 Kcal/Kg]

$$\text{Adjusted FOR price} = 0.75 \times [\text{Quoted FOR price} \times \text{Actual GCV (ARB)}] / \text{Quoted GCV(ARB)}$$

For GCV 3600 Kcal/Kg $>$ GCV \Rightarrow 3200 Kcal/Kg [For GCV less than 3600 Kcal/Kg AND more than or equal to 3200 Kcal/Kg]

$$\text{Adjusted FOR price} = 0.50 \times [\text{Quoted FOR price} \times \text{Actual GCV (ARB)}] / \text{Quoted GCV(ARB)}$$

For GCV $<$ 3200 Kcal/Kg [For GCV less than 3200 Kcal/Kg]

g). In case of GCV (ARB) is less than 3200 kcal/Kg, no payment shall be made for already delivered and consumed material of GCV less than 3200Kcal/kg.

Note: In case, supplier is found to frequently supply the material of GCV less than 4000 Kcal/Kg or found to take deviations in other technical parameters, warning letter shall be issued to supplier.

h). However, if material is supplied below 3200 Kcal/Kg in more than 3 (Three) instances during the currency of contract even after issuing warning letter then Contract shall be liable for cancellation.

i). Material supplied of GCV less than 3200 Kcal/Kg is liable for rejection and no payment shall be made for material already delivered and consumed.

7.2.2.2 Non-Torrefied pellet:

a). Stipulation of limits for Quoted GCV: Based on the Base material and Mixing material as per technical specification, Bidder is required to quote GCV value of biomass in Kcal/Kg within the range as mentioned below:

b). In case of Non-Torrefied Pellet
Minimum Limit- 3400 Kcal/Kg
Maximum Limit-4000 kcal/Kg

c). Supplier shall supply the agro residue based Non-Torrefied biomass pellets of GCV not less than 3000 kcal/kg. Price shall be adjusted for GCV variation of supplied material as below:

For GCV (ARB) \geq 3400 Kcal/Kg [For GCV more than or equal to 3400 Kcal/Kg]

d). Pro-rata price adjustment shall be done for GCV variation within acceptable GCV range of supplied material as per following formula: -

$$\text{Adjusted FOR price} = [\text{Quoted FOR price} \times \text{Actual GCV (ARB)}] / \text{Quoted GCV(ARB)}$$

*FOR Price- FOR Destination Price

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

f). The downward GCV variation from Minimum limit, pro-rata price adjustment shall be done for GCV variation of supplied material as per following formula:

For GCV 3400 Kcal/Kg $>$ GCV \Rightarrow 3000 Kcal/Kg [For GCV less than 3400 Kcal/Kg AND more than or equal to 3000 Kcal/Kg]

$$\text{Adjusted FOR price} = 0.75 \times [\text{Quoted FOR price} \times \text{Actual GCV (ARB)}] / \text{Quoted GCV(ARB)}$$

For GCV < 3000 Kcal/Kg [For GCV less than 3000 Kcal/Kg]

g). In case of GCV (ARB) is less than 3000 kcal/Kg, no payment shall be made for already delivered and consumed material of GCV less than 3000Kcal/kg.

Note: In case, supplier is found to frequently supply the material of GCV less than 3400 Kcal/Kg or found to take deviations in other technical parameters, warning letter shall be issued to supplier.

h). However, if material is supplied below 3000 Kcal/Kg in more than 3 (Three) instances during the currency of contract even after issuing warning letter then Contract shall be liable for cancellation.

i). Material supplied of GCV less than 3000 Kcal/Kg is liable for rejection and no payment shall be made for material already delivered and consumed.

7.3 Recovery on Account of Excess Fines in Consignment Dimension of agro residue-based pellets has been given in the technical specification which shall be adhered to. Dust, crushed agro residue-based pellets in consignment as received at Power Plant shall be treated as fines and there shall be recovery on account of excess fines (ARB) if it exceeds 5%. The recovery on account of excess fines will be worked out as per the following formula.

$$\text{Recovery} = \text{Adjusted price of biomass pellets} \times W \times (\text{Weight\% of fines beyond 5\%})$$

This amount shall be recovered from the payment of that consignment.

7.4 Rejection level

The consignment of agro residue based pellets arrived at the Power Plant shall initially be tested for following before unloading and shall be rejected if total moisture (as given in table 3) exceeds the rejection level given as follows:

Table-3 Rejection Level

S.No.	Technical Data	Unit	Rejection Level
1	Total Moisture (ARB)	Wt.%	More than 14%

8. BILLING AND PAYMENT TERMS: As per JPL guideline

The Contractor shall submit the bills in triplicate on completion of delivery of material at Plant and payment shall be released based on the methodology as below:

8.1 The bills are to be submitted along with the following supporting documents (as applicable), including but not limited to: -

- i. Copy of weighment certification by Power Plant.
- ii. Copy of Quality reports of loading end
- iii. Copy of Plant receipt end quality reports.
- iv. Certified working for deriving payable quantity.
- v. Original challan copies of truck engaged in transportation
- vi. HGI Certificate from NABL accredited lab
- vii. Composition of Biomass pellets

8.2 75% of payable amount shall be paid on receipt of materials at site Balance 25% shall be paid on receipt and acceptance of test results.

8.3 However, it may happen that a vendor may supply material with lower GCV, and takes the 75% payment which may be more than the payment due against the adjusted amount as per GCV of the supplied material. To discourage such cases, contractors defaulting on quality of pellets, resulting in actual payment less than 15% of the invoiced amount, shall only be paid 50% of the invoiced value on receipt of the material, instead of the 75% for subsequent six months. The remaining 50% shall be paid on receipt and acceptance of test results. The facility may be restored based on satisfactory performance in previous six months.

8.4 Payment to the supplier shall be made fortnightly, i.e. payment for quantity delivered from 1st to 15th of a given month shall be made by 30th or 31st of that month and similarly, payment for quantity delivered from 16th to 30th or 31st of a given month shall be done by 15th of next month. However, payment shall be processed only after receipt of invoice complete in all respects with supporting documents.

8.5 In case the payment to the supplier is delayed beyond 45 days after submission of invoice complete in all respects with supporting documents, the supplier will get an interest on the outstanding payments interest rate as per extant guidelines of the company (JPL), if any.

8.6 All the relevant payments due as per the contract shall be released to the Contractor on production of documentary evidence such as LR copy/ e-way bill/ toll tax receipts etc, to ensure that Biomass Pellets have been supplied from bidder's declared place (District) of manufacturing plant.

In case the location of manufacturing Plant is not yet finalized, then bidder may declare the tentative location of manufacturing Plant. However, the Bidder shall declare the location of their manufacturing Plant within 90 days of placement of Award.

If a Contractor does not declare the Plant Location within 90 days of placement of Award, then the Contract is liable to be terminated and security deposit of the bidder is liable to be forfeited and the bidder is liable to be debarred for participation in subsequent tenders.

However, in the event of declaration of location of manufacturing plant after the placement of Award, the FOR destination price quoted by the bidder and incorporated in NOA/PO, shall remain the same.

PRICE BID

S No.	Description	UOM	Quantity	Rate (in Rs)	Amount (in Rs)
1	Agro residue based Biomass pellets	MT	116793		
TOTAL BASIC VALUE (IN RS)					
Tax Details					
Others, if any					
TOTAL CONTRACT VALUE (IN RS)					
Note:					

TECHNICAL BID

Sl. No	Technical Data	Unit	Specification for Torrefied / Non-Torrefied pellets
1	Base Material	NA	
2	Diameter	mm	
3	Length	mm	
3	Bulk Density	Kg/m3	
4	Fines%(Length<3mm) (ARB*)	wt.%	
5	Moisture (ARB)*	wt.%	
6	Gross Calorific Value (ARB)**	Kcal/Kg	
7	Hard Groove Grindability Index (HGI)		
8	Particle size distribution (After crushing and pulverizing in site lab pulveriser)	%	
9	Ash (ARB*)		

Last Date of Price & Technical Bid Submission: 26/04/2023