

REQUEST FOR INFORMATION (RFI) BIOMASS SUPPLY FOR TNB FUEL SERVICES SDN. BHD.

TNB Fuel Services Sdn. Bhd. (“TNBF”), a wholly owned subsidiary of Tenaga Nasional Berhad (“TNB”), is responsible for fuel procurement and transportation to power plant. TNBF hereby invites interested **EFB/ Wood pellet** Producers / Traders (herein called the “Applicants”) to submit Request For Information documents.

A. OBJECTIVE OF PRE-QUALIFICATION EXERCISE

1. To collect written information about the capabilities and capacity of biomass suppliers.

B. ELIGIBILITY

1. Genuine EFB/ wood pellet suppliers which currently in production.
2. Applicants have the necessary business track record as specified in the RFI.

C. PROCESS FLOW

The overall process flow is illustrated as the following:



D. QUALITY REQUIREMENT

The below table show the indicative quality range of biomass products EFB/ wood pellet and may subject to change from time to time.

Item	Property	Basis	Unit	TNBF Typical	Range	
					Min	Max
1.	Gross Calorific Value	As Received	Kcal/Kg	4100	4000	-
2.	Total Moisture	As Received	%	5	-	8
3.	Total Sulphur	As Received	%	0.02	-	0.05
4.	Ash Content	Air Dried	%	5	-	8
5.	Potassium (K ₂ O)	Dry Basis	%	5	-	10
6.	Sodium (Na ₂ O)	Dry Basis	%	0.5	-	2
7.	Chlorine (Cl)	As Received	%	0.05	-	0.1
8.	Total Sulphur: Chlorine	As Received	Ratio	-	2	-
9.	Fixed Carbon	Air Dried	%	17.5	15	25
10.	Volatile Matter	Air Dried	%	73	62	75.5
11.	Carbon	Dry Basis	%	48.5	45	52
12.	Hydrogen	Dry Basis	%	6.1	4.98	7
13.	Oxygen	Dry Basis	%	39.5	31.2	43
14.	Nitrogen	Dry Basis	%	0.35	0.22	0.49

1. Empty Fruit Bunch (EFB) Washed/Premium Pellet

Item	Property	Basis	Unit	TNBF Typical	Range	
					Min	Max
1.	Gross Calorific Value	As Received	Kcal/Kg	4200	4100	-
2.	Total Moisture	As Received	%	5	-	8
3.	Total Sulphur	As Received	%	0.01	-	0.01
4.	Ash Content	Air Dried	%	2.5	-	5
5.	Potassium (K ₂ O)	Dry Basis	%	14	5	25
6.	Sodium (Na ₂ O)	Dry Basis	%	1.1	0.3	2.3
7.	Fixed Carbon	Air Dried	%	18.5	16.9	23.5
8.	Volatile Matter	Air Dried	%	72.5	69.7	75.8
9.	Carbon	Dry Basis	%	50.3	48.5	54.3
10.	Hydrogen	Dry Basis	%	5.98	5.21	7.3
11.	Oxygen	Dry Basis	%	41.5	37.03	44
12.	Nitrogen	Dry Basis	%	0.29	0.25	0.32

2. Wood Pellet

E. CONTACT PERSON

Kindly contact the person in charge from TNBF to make an engagement appointment and submission: **Zahrol Poniran (E-mail: zahrolp@tnb.com.my; Telephone: +6019-2179092) or Hiew Char Loong (E-mail: hiewcl@tnb.com.my; Telephone: +6019-2799 074)**

F. PENALTY

TNBF reserves the right to reject any RFI that is incomplete, either in part or in full. No penalties will be imposed on applicants in such case. Applicants are encouraged to provide comprehensive and detailed information to help us better understand their capabilities and capacity.

G. Confidentiality and Personal Data Protection

TNBF and the Applicant shall treat this document and everything within it as private and confidential. TNBF and the Applicant shall not publish or release information or drawings relating to this document except with prior written consent of TNBF.

TNBF and the Applicant agree to comply at all times with provisions and obligations contained in all applicable laws and regulations in Malaysia, including but not limited to the Personal Data Protection Act 2010.

For the purpose of information and notification, TNB's Personal Data Protection Policy can be accessed at <https://www.tnb.com.my/pdpa>

H. DISCLAIMER

All information provided in response to this RFI will be treated as confidential and used solely for the purpose of data gathering. The RFI is issued solely for information-gathering and planning purposes and does not constitute a solicitation or offer to enter into any binding contractual arrangement. Responses to this RFI shall not bind TNBF to any contractual commitment, nor shall TNBF be obligated to select or award any contract to the respondent. TNBF also reserves the right to amend, withdraw this RFI at any time without incurring any liability. All costs associated with the preparation and submission of responses to this RFI shall be borne solely by the respondent.

TNB FUEL SERVICES SDN. BHD.

REQUEST FOR INFORMATION ON BIOMASS SUPPLY FORM

A. GENERAL INFORMATION

1.	Company:	
2.	Office Address:	Registered Address:
3.	Tel No.:	Fax No.:
4.	Date of incorporation:	
5.	Principal activities:	
6.	Authorized Capital:	Paid-Up Capital:
7.	Vendor Registration Number MOF/ TNB (if any):	
8.	Tax Identification Number (TIN) :	SST Registration Number:
9.	Contact Person (1)	
	Name:	Designation:
	Tel No. (Office):	Fax No.:
	Mobile No.:	Email:
	Contact Person (2)	
	Name:	Designation:
	Tel No. (Office):	Fax No.:
	Mobile No.:	Email:

9.	Board of Directors		
No.	Name	Nationality	Identification
i.			
ii.			
iii.			
iv.			
v.			
10.	Management		
No.	Name	Nationality	Identification
i.			
ii.			
iii.			
iv.			
v.			
11.	Financial Performance	2023	2024
i.	Quick ratio = $\frac{\text{current assets} - \text{inventory}}{\text{current liabilities}}$		

Note: Please provide supporting evidence e.g. curriculum vitae of key personnel, company profile, audited Financial Report etc.



B. BUSINESS EXPERIENCE

1. Supply Chain

The applicant shall specify their business relationships of **all relevant parties** in the supply chain in the following table:

Role	Company Name (Please fill in below)	Example
Feedstock supplier		Westine Plantation Sdn. Bhd.
Joint Venture		Eastin Biomass Sdn. Bhd.
Transporter		Marine Shipping Bhd.
Trading Arm		Westine Trading Sdn. Bhd (as Applicant)
Producer		Westine Biomass Production Bhd.
Third Party product suppliers		Berry Sdn Bhd
Others (Please Specify):		Research Corporation as researcher

Note: Please insert 'NA' if not applicable.

2. Production Details

- Biomass Type (EFB/ Wood) : _____
- Experience in biomass production (XX years) : _____
- Design capacity: _____ metric tonnes of biomass product/year.
- What evidence is available to substantiate the reported annual biomass production? Options include internal registers or annual reports:

2.1 Past Production (2022-2024)

Year	Total Production (mt)	Feedstock Type	Export Sales (mt)	Domestic Sales (mt)
2022				
2023				
2024				

2.2 Production Forecast (2025-2026)

Year	Total Production (mt)	Feedstock Type	Export Sales (mt)	Domestic Sales (mt)
2025				
2026				

3. Certification / Accreditation

Year	Certification	Certification Body	Validity

Note: Sustainable certification or license such as FSC, RSPO, ISCC, Green Gold Label (GGL) etc.

C. PRODUCTION INFORMATION

1. Feedstock information

Feedstock Type:	
Permit: (agriculture, forestry etc if applicable)	
Physical Description:	
Origin of Harvest:	
Specify any pre-processing outside the applicant's factory/ plant (shredding, chipping, drying, etc):	
Receiving plant storage address:	

Please provide regional map demonstrating biomass producer and feedstock origin location(s).

TNBF may request for evidence on site to confirm the origins during site visit. (for example Certified Material Recycling, supplier invoices, supplier contracts, internal registers or annual reports)

2. Photographs/ illustration (Production Process)

This section shall illustrate photographs/illustration/pictures of at least the following:

- Feedstock storage
- Overview of biomass manufacturing plant
- Washing method and waste water treatment (if any)
- Dryer (if any)
- Wood chipper and hammer mill if wood pellets
- Pelletizer, biomass storage and handling

A ground plan of the facilities and / or a flowchart shall also be included if available. Please add dates when photographs were taken.

3. Production Process

The following table examines the on-site biomass production process, focusing on key description of the processes undergone by feedstock. Please tick (√) whichever applicable.

Feedstock Storage	<input type="checkbox"/> Open air <input type="checkbox"/> Warehouse <input type="checkbox"/> Silo <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> No storage
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Feedstock Preparation	<input type="checkbox"/> Shred and Press (EFB) <input type="checkbox"/> Washing (EFB) <input type="checkbox"/> Debarking (Wood) <input type="checkbox"/> Chipping (Wood)	
	<table border="1"> <tr> <td><input type="checkbox"/> Drying</td> <td> type: <input type="checkbox"/> drum dryer <input type="checkbox"/> belt dryer <input type="checkbox"/> other (specify) _____ energy carrier: <input type="checkbox"/> steam <input type="checkbox"/> hot air/ flue gases <input type="checkbox"/> hot water </td> </tr> </table>	<input type="checkbox"/> Drying
<input type="checkbox"/> Drying	type: <input type="checkbox"/> drum dryer <input type="checkbox"/> belt dryer <input type="checkbox"/> other (specify) _____ energy carrier: <input type="checkbox"/> steam <input type="checkbox"/> hot air/ flue gases <input type="checkbox"/> hot water	
Sizing	Target size _____ mm	
	<input type="checkbox"/> Hammer mill (wood) <input type="checkbox"/> Cutting (EFB)	
Pelletizing	<input type="checkbox"/> Number of Pelletizers _____ <input type="checkbox"/> Design capacity of each pelletizer _____ metric tonnes per hour	
Product handling	<input type="checkbox"/> Rolling stock <input type="checkbox"/> Conveyor belt <input type="checkbox"/> Blowpipe <input type="checkbox"/> Forklift <input type="checkbox"/> Other (specify) _____	
Product Storage	Maximum Storage Capacity _____ metric tonnes	
	<input type="checkbox"/> Warehouse <input type="checkbox"/> Silo <input type="checkbox"/> Open air <input type="checkbox"/> Dome <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> No storage	

4. Inland and Sea Transportation

The following tables examine the inland and/ or sea transportation, focusing on flexibility in term of bulk delivery.

4.1: Inland Transport

Mode of Transport	
Transport Capacity	
Owner (self-owned / outsourced)	
Packaging method (loose/ jumbo bag/ drum etc)	

4.2: Sea Transport (if applicable)

Sea loading/ Jetty location	
Vessel IMO	
Vessel Name	
Capacity of the whole ship used - Nominal Capacity (metric tonnes)	
Distance of the sea loading/ Jetty location from the biomass storage location (km)	
Please indicate address of off-site storage, handling or trans-shipment facility if applicable	



DECLARATION

I, _____ ID No. _____
 Hereby certify that all the information/data given to this applicant are correct and up-to-date. If there are any changes in the information/data supplied, I shall undertake to notify you in writing as soon as possible.

I also declare that all the information given in this application is true and correct.

SIGNATURE	COMPANY'S STAMP
NAME : DESIGNATION : DATE :	

NOTES

RFI Form	a. The form is available for download at our official websites: <ul style="list-style-type: none"> www.tnbfuel.com > Procurement > Tender Advertisement tnbfbid.com > Coal Advertisement
Quality Sampling Test	a. Biomass quality test requires a minimum of 5kg sample to be sent (with AWB receipt) to: <p style="margin-left: 20px;">Ms. Miza Farzana bt Amir Mahmud Digital Solutions, Technical Services TNB Labs Sdn Bhd. No.1, Lorong Ayer Hitam, Kawasan Institusi Penyelidikan, 43000, Kajang Selangor.</p> <p style="margin-left: 20px;">The AWB receipt shall be provided to email tnbf-tbs@tnb.com.my;</p> b. The quality sampling test result is chargeable upon request by the Applicant. c. Quality Sampling fee is a one-time payment and it is not refundable. d. The fee is RM3,500.00 nett (for quality sampling) and payable to TNBF's bank account as of below: <p style="margin-left: 20px;">Name : TNB Fuel Services Sdn. Bhd. A/C No : 5141 8735 2288 Swift Code : MBBEMYKL Bank Name : Maybank Wisma IJM Ground Floor, Jalan Yong Shook Lin, 46200 Petaling Jaya, Selangor, Malaysia</p>

CHECKLIST

The applicant is advised to submit the following documents in this RFI to enable TNBF to fairly assess their overall capacity and capability.

No.	Document	Confirm Submission <i>Applicant please tick</i> (✓)	TNBF <i>(Office use)</i>
1.	RFI Form		
2.	Company Profile		
3.	Latest audited financial report		
4.	Curriculum vitae of key personnel		
5.	Regional map demonstrating biomass producer and feedstock origin location(s)		
6.	Photographs/illustration (production proses)		
7.	Supporting evidences (Contract/ Agreement/LOI/MOU/LOA/LOU if any)		