

UNELCO



Invitation for Expression of Interest

For the Supply of Bio-Diesel Oil for Diesel Electric Power Plants

**The closing Date and Time for the Expression of Interest is:
16 March 2018 at 4.30pm (Vanuatu Local Time)**

SUMMARY

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Article I – SUBJECT OF EXPRESSION OF INTEREST

UNELCO ENGIE invites Expression of Interest (EOI) for its on-sites supply of Biodiesel for its diesel electric power plant below in Vanuatu:

- Tagabe Power Plant (near Bauerfield International Airport): for up to 8,300,000 Kg per annum.

The above quantity is estimated and it will vary depending on the market penetration of renewables (solar, wind) and the price of automotive diesel fuel.

Article II – SUBMISSION REQUIREMENTS

Any interested party submitting an EOI shall produce, for itself, its co-contractors and potential sub-contractors, a submission dossier which shall include the following documents:

- a) Justification of the legal existence of the party,
- b) Name and contact details of person within the party's organization who is responsible for this EOI,
- c) Certificate on the honor of non-conviction for violations of the Labour practices and Decent Work regarding the employment of foreign workers and the offenses of bargaining or lending of labor,
- d) Certificate of insurance valid covering professional civil liability,
- e) A technical brief summarizing the steps taken by the party to ensure the follow-up of the worksites:
 - ✓ Presentation and organization of the company (departments, number of employees, annual turnover).
 - ✓ Any quality, health and safety standards and certification or similar,
 - ✓ Indicate whether on shipping will be sub-contracted,
- f) A description of the proposed produce including its technical specifications (which must fall within the technical specifications of Schedule 1).
- g) An estimate of the quantity of product the party is capable to deliver per year.
- h) An estimated price per kg at our delivery point (Efate) as per the technical specifications.
- i) References and credentials (provide a few credentials snapshots which illustrate the party's experience providing customers with similar services).
- j) Two references of clients for which you authorize UNELCO ENGIE to contact and enquire about your services to them.

Article III – CONDITIONS OF SUBMISSIONS

1. Submission by email

EOI may be submitted by email to the following address: david.lefevre.unelco@engie.com

The documents MUST be provided in a PDF format.

2. Submission by mail

EOI may be submitted to UNELCO ENGIE's Main Office Down Town in Port-Vila to the following address:

M. David LEFEVRE
“EXPRESSION OF INTEREST”
Supply of Bio-Diesel Oil for Diesel Electric Power Plants
UNELCO ENGIE
PO Box 26
Port Vila
VANUATU

An acknowledgment of receipt of the EOI will be sent by UNELCO ENGIE to the relevant parties which have submitted a valid EOI.

A party submitting an EOI must ensure that its submission is properly received by UNELCO ENGIE.

Article IV – ADDITIONAL INFORMATION

Requests for administrative information relating to this invitation for EOI should be sent by e-mail to: tanguy.kerzreho@engie.com

Requests for technical information relating to this invitation for EOI should be sent by e-mail to: tanguy.kerzreho@engie.com

UNELCO ENGIE reserves the right not to implement this Expression of Interest.

SCHEDULE 1 - TECHNICAL SPECIFICATIONS OF THE PRODUCTS

QUANTITIES

As an indication, the annual volume to be delivered will be according to the following estimates:

up to 8,300,000 Kg per annum.

The above quantity is estimated. Further, this quantity will vary depending on the market penetration of renewables (solar, wind) and the price of automotive diesel fuel.

DELIVERY PLACE

The biodiesel shall arrive by bulk or container at Port-Vila main wharf. The supplier will be responsible to verify the constraints of the harbour/wharf and related logistics.

Deliveries shall be made by tank trucks equipped with appropriate means. These unloading / filling operations are carried out by the supplier, under his entire responsibility and in compliance with the regulations in force. The supplier shall take all necessary measures to ensure the safety of UNELCO ENGIE personnel and facilities at the delivery points on the unloading platforms of the power station.

All precautions must be taken by the supplier for the protection and respect of the environment throughout the delivery phase until the end of the delivery operations.

The process is carried out by the suction in the truck of the supplier by the pumping system of UNELCO ENGIE. The connection is made to a valve at the end of the suction line, accessible outside the buildings on the discharge plate.

The supplier shall indicate the means and equipment it uses to ensure the delivery of the product (Number of trucks, useful volumes)

The supplier undertakes to ensure the delivery by simple request by fax, mail or email of UNELCO ENGIE and includes Saturdays, Sundays and public holidays if necessary.

STORAGE

The supplier is not required to establish a security stock. The supplier shall be responsible for delivery operations at the Tagabe Power Plant where UNELCO ENGIE has a storage capacity of 180,000 liters of biodiesel.

BIODIESEL CHARACTERISTICS

The proposed biodiesel will be exclusively of vegetable origin, that is to say:

- raw vegetable oil,
- refined vegetable oil,
- recycled vegetable oil,
- esterified vegetable oil.

The proposed biodiesel must have the following characteristics:

| Property/feature | Properties/unit | Test method |
|---------------------------------|---|----------------------------------|
| Density/15 °C | 900 - 930 kg/m ³ | DIN EN ISO 3675, EN ISO 12185 |
| Flash point | > 60 °C | DIN EN 22719 |
| Lower calorific value | > 37 MJ/kg (typical: 39 MJ/kg) | DIN 51900-3 |
| Viscosity/50° C | < 40 cSt (corresponds to viscosity/ 40 °C < 60 cSt) | DIN EN ISO 3104 |
| Cetane number | > 40 | FIA |
| Coke residue | < 0,4 % | DIN EN ISO 10370 |
| Sediment content | >0.05% of the weight | ISO 10307-1 |
| Oxidation stability (110 °C) | > 5 h | ISO 6886 |
| Phosphorus content | < 15 ppm | ASTM D3231 |
| Na + K content | < 15 ppm | DIN 51797-3 |
| Ash content | < 0,01 % | DIN EN ISO 6245 |
| Iodine Number | < 125 g/100g | DIN EN 14111 |
| Water content | < 0,5 % | EN ISO 12537 |
| TAN (total acid number) | < 5 mgKOH/g | DIN EN ISO 660 |
| Cold Filter Plugging Point | < 10 °C below lowest temperature in fuel system | EN 116 |