Energy Fiji Limited

TENDER NO MR 44/2021

February 2021

SPECIFICATIONS FOR THE SUPPLY OF:

- **INDUSTRIAL DIESEL OIL (IDO)**

  - *Max 10ppm Sulphur Content*

1.0 INTRODUCTION

Energy Fiji Limited (hereinafter referred to as the "EFL") invites tenders for the supply of the following product:

a. Diesel or Gas Oil (Max 10ppm Sulphur Content) as per Product Specifications for EFL use. The bids should indicate clearly costs for bundled and unbundled on ***a regional basis (Viti Levu and Vanua Levu/Ovalau).*** Tender Pricing templates will be also provided. The contract term will be for a **three (3) year period** from **the date of award of the contract.**

1.1 EFL DELIVERY POINTS

Currently EFL has Power Stations and or Depots at the following locations which shall be the point of delivery of the products as and when required. Deliveries shall always be made during normal working hours or after hours as may be required. Delivery of IDO shall be into the storage tank located at the power Stations. All fuel storage tanks are owned by EFL. Capacity of tanks are shown in Clause 2.1

1.1.1 Viti Levu

1. Vuda Power Station
2. Nadi Airport Power Station
3. Sigatoka Power Station
4. Kinoya Power Station
5. Deuba Power Station
6. Rokobili Power Station
7. Monasavu Depot
8. Rakiraki Power Station
9. Korovou Power Station
10. Qeleloa Power Station
11. Wailoa Power Station
12. Nadarivatu Power Station

1.1.2 Vanua Levu

13. Labasa Power Station
14. Savusavu Power Station

1.1.3 Ovalau

15. Levuka Power Station

1.14 Taveuni

16. Waiyevo Power Station

All plants/generating sets at each site are detailed in Appendix B.

2.0 INDUSTRIAL DIESEL OIL (IDO)

The successful tenderer shall sell and deliver or procure to be delivered to the Power Station sites belonging to or which will belong to EFL as aforementioned or any other site in Fiji nominated by EFL.

Tank capacities at EFL's Power Stations at various locations are presented as follows:

2.1 STORAGE TANK DETAILS

LOCATION	QTY.	TOTAL CAPACITY IN LITRES
Vuda	1	700,000
Nadi Airport	2	105,000
Sigatoka	2	110,000
Deuba	1	50,000
Kinoya	2	1,800,000
Rokobili	2	90,000
Monasavu	1	10,000
Rakiraki	1	55,000
Labasa	4	212,000
Savusavu	2	100,000
Korovou	1	25,000
Qeleloa	1	53,000
Levuka	2	65,000
Waiyevo	2	60,000
Wailoa	1	2,000
Taveuni	2	60,000

2.2 Estimated Consumptions

EFL's IDO consumptions for the year 2018, 2019 and 2020 is shown in Appendix C. It must be borne in mind however, that in the event of the breakdown at any Hydro Power Stations supplying to the EFL Power Grid or dry weather conditions that may dramatically reduce Hydro plant power generation, tenderers should state how they intend to accommodate this increase in demand should the circumstances extend for an extend time.

Please note the Annual IDO consumption volume may vary according to change in demand, plant outage or circumstances beyond EFL's control. Refer Appendix C for details on fuel usage at each power station.

Bidders are required to detail current tank storage capacity and how they will be able cater for EFL max fuel requirements per month should it exceed available storage capacity. This will include any arrangements with other fuel suppliers.

Conversely, bidders are to clearly explain how they will cater for fuel storage in the event EFL does not accept deliveries due to increased hydro power generation when dam levels are healthy.

2.3 Tendered Pricing Format

Pricing Format: Single Price; Variable Monthly **in line with International Spot posted prices with Fixed Constant for all onshore costs.**

The pricing shall follow the format shown below with a transparent pricing template that determines the price according to latest **International Plats daily Spot Prices**. Example is for the month of March. The template is constructed as follows:

BULK DIESEL (IDO 10ppm Sulphur content) PRICING TEMPLATE FOR EFL - MARCH DIESEL PRICE FOR VITI LEVU,VANUA LEVU, OVALAU & TAVEUNI		
1	**FOB Singapore**	**US$/MT**
2	**Product Premium**	**US$/MT**
3	**Offshore Freight**	**US$/MT**
4	**Insurance**	**US$/MT**
5	**Total delivered price(CIF) to Suva/Vuda excl Fiji's Government Charges(Duty, Wharfage & VAT)**	**US$/MT**
6	**Exchange Rate**	**FJ$1 = US$**
7	**Total delivered price to Suva excluding Fiji's Government Charges (Duty, Wharfage & VAT)**	**FJ$/MT**
8	**Fiscal Duty**	**FJ$/MT**
9	**Wharfage**	**FJ$/MT**
10	**Constant Factor (including delivery/storage costs)**	**FJ$/MT**
11	**Total delivered price Excluding VAT to EFL in Viti Levu for the month of March**	**FJ$/MT**
12	**Total delivered price Excluding VAT to EFL in Labasa and Savusavu for the month March**	**FJ$/MT**
13	**Total delivered price Excluding VAT to EFL in Ovalau for the month of March**	**FJ$/MT**
14	**Total delivered price Excluding VAT to EFL in Taveuni for the month of March**	**FJ$/MT**

Where:

Item 1 varies in line with the Singapore market as the average for the month concerned of Platt's Singapore Sport Mid-Point Quotes for 10ppm Gas Oil. i.e world pricing for the fuel components of 10ppm Gas Oil in line with world prices posted by independent organization Platts. The supplier will quote FOB rates (US$/Barrel) for the current month from the 1st of the month to the last day of the month. {For example, pricing for January 2021 is set from daily spot prices from 1 January 2021 to 31 January 2021}. The supplier then average the spot prices in US$/Barrel and converts it to US$/MT using the conversion factors below.

Fixed Conversion Factors

LITRES/USG	=	3.7854
LITRES/METRIC TONNE	=	1175
USG/BBL	=	42
LITRES/BBL	=	159

I**tem 2** is the Product Premium associated with quality of the product in US Dollar per MT (Metric Ton) **must remain constant** during the period of the contract.

I**tem 3** is freight and associated costs from refinery to Fiji terminals, and ***will alter on a monthly basi*****s and in line with movement in world freight prices** (also independently monitored and published). It is quoted as Freight Worldscale 100 for Singapore to Vuda/Suva voyage x Worldscale level for MR AFRA for month of bill-of-lading, plus 50 Worldscale points clean premium :

Item 4 is the cost of Insurance associated with shipping and handling of products from refinery to Fiji.

Item 5 is the landed cost (CIF) in Fiji in US Dollar per MT (metric tonne) excluding any government or local costs.

Item 6 the Exchange Rate from US Dollar to Fijian Dollar, is quoted as the average of the Fiji ANZ Bank selling rate for the month concerned: i.e.1st of the current month to the last day of the current month (i.e. same period as Item 1),

Item 7 is the landed cost at in Suva in Fijian Dollar per MT.

Item 8 is the Duty, is quoted at concession rate subject to approval by Fiji Customs for IDO (10ppm Diesel) and **may vary** according to the Fiji Government legislation applicable to EFL.

Item 9 is the Wharfage costs in Fiji and **may vary** according to the Fiji Government legislation.

Item 10 is the ***constant factor*** consisting of onshore operating costs, margin, and cartage costs from the supplier Terminal to EFL power stations in Viti Levu areas and remains fixed during the period of the contract.

Item 11 is Total Delivered Price excluding VAT to EFL power stations VITI LEVU

Item 12 is the total delivered price to the EFL power stations in Labasa/Savusavu and is including freight & cartage. Please note the local freight and cartage for Labasa/Savusavu shall remain fixed and can only be reviewed on an annual basis. Any changes can only take place under mutual agreement. Any onshore operating costs and margins (excluding local freight and cartage) should be included in item 10.

Item 13 is the total delivered price to the EFL power stations in Ovalau & Taveuni and is including freight & cartage. Please note the local freight and cartage for Ovalau & Taveuni *shall remain fixed and can only be reviewed on an annual basis*. Any changes can only take place under mutual agreement. Any onshore operating costs and margins (excluding local freight and cartage) should be included in item 10.

2.5 GENERAL NOTES TO CONVERSION FORMULAE

Fixed Conversion Factors

LITRES/USG	=	3.7854
LITRES/METRIC TONNE	=	1175
USG/BBL	=	42
LITRES/BBL	=	159

2.6 ENERGY CONTENT AND LIQUIDATED DAMAGES

2.6.1 The tenderer shall ensure that the energy content of IDO it proposes to supply meets the limits specified on the IDO

Product Specification for EFL use (refer Appendix A).

2.6.2 During the period of the contract, EFL will take random samples of IDO from either the supplier's storage tanks (from which EFL fuel are supplied from) or from the output of the supplier's delivery tankers and send them to an independent laboratory for testing against the product specification. The costs for these tests are expected to be shared equally by EFL and the supplier.

2.6.3 If the Energy content of the fuel from the tested sample falls below the minimum specified value of the EFL IDO Product Specification, a liquidated damage amount will be levied on the supplier on the following basis;

For each Tonnage supplied per month, EFL will ensure that it recovers from the supplier the full cost of the "lost or foregone Energy" quantity based on the full IDO Quantum delivered to EFL (particular to the batch from which the sample was taken) and on the applicable monthly price.

3.0 MOTOR SPIRITS (ULP) & AUTOMOTIVE DIESEL (ADO)

Not required for tender.

4.0 Fuel Card Services

Not required for tender.

5.0 GENERAL CONDITIONS

5.1 Submission of Tenders

Tenders in properly sealed envelopes clearly marked "TENDER No. MR 44/2021 – Supply of Diesel Fuel (IDO) for EFL's Power Stations," must be lodged with The Secretary, Tender Committee, Suva, Fiji no later than date specified in tender advertisement.

In the above regard tenderers are to submit their tender in triplicate with the original clearly marked "ORIGINAL" and the others marked "COPY".

5.2 Other Conditions

5.2.1 EFL does not bind itself to accept the lowest for any tender and retains the right to let the contract in full or in part (split tenders).

5.2.2 EFL will in no way be obliged to give reasons for its acceptances or rejection of any tender.

5.2.3 The successful tenderer will be required to guarantee regularity in delivery to the locations aforesaid.

5.2.4 EFL retains the right to use up stocks of product, brought in by the previous contractor for their exclusive use and which are on hand at the commencement date of the award of this contract, before placing orders with the successful tenderer.

5.2.5 All products offered must be compatible with those being presently used. Where blending is necessary the successful tenderer must provide assurances that the machines and or equipment are safeguarded during the transition period (this implies that condition-monitoring services will be maintained and guaranteed during that period

5.2.6 Should the successful tenderer fail to effect delivery of any product within time or offer a product of an inferior quality to that tendered or at any time fail to replace a product reasonably rejected by EFL shall be at liberty and have right to :

(i) either cancel the contract, or

(ii) purchase such product from alternate source and in the later event, should the price be higher than the Tendered price, EFL shall retain the right of deducting the difference from payment of any future deliveries or of payments due.

5.2.7 Quantities given in this tender are only intended to be indicative of future consumption and as such EFL accepts no liability should these figures prove incorrect for future usage patterns.

5.2.8 Prices quoted should take into account the supply of storage facilities and equipment owned by the successful

tenderer.

5.2.9 The successful tenderer shall guarantee constant supply and storage of fuels over the entire duration of the contract.

5.2.10 Tenderers must advise on Diesel condition monitoring and precautions necessary where fuel/oil is stored on a long-term basis. This is to counter gum and sludge formation, microbiological growth and tank corrosion brought about by low pH solutions. Tenderers should include costs associated with this device in their overall tendered price for Diesel.

5.2.11 The successful tenderer shall be required to submit quality certificates for each batch of fuel delivered to EFL from an independent testing organisation, for each batch of fuel, which may be used by the EFL. (Refer to example on Appendix E). The successful tenderer should ensure that they conform to the specification laid out. Tenderers shall have provision for EFL nominated staff to witness any tests that are performed locally under circumstances when a batch certificate of quality assurance from an independent testing organisation is not provided.

5.2.12 Where the storage tanks are the property of the supplier or leased from EFL, the supplier shall be responsible for regular inspection and proper maintenance and calibration of such tanks. In this regard should any spillage and or leakage occur and it is firmly established such was the result of the supplier's storage equipment failure, the supplier shall:

i. Make good any loss of the product to EFL

ii. Clean up such spillage and or leakage, and

iii. Meet all claims of damages etc arising from such spillage and or leakage.

5.3 TENDERER TO ACQUAINT ITSELF BEFORE SUBMITTING TENDER

No claims will be entertained by the Principal for any omission in the tender submitted. It is the tenderer's responsibility to ensure that he has a thorough understanding of EFL's requirements.

5.4 VERBAL ADVICE

Verbal advice given or obtained in respect of their specifications shall not constitute a warranty or a representation to the tenderer and shall not be binding. EFL shall be bound only by written advice or information furnished by the Principals to the tenderer.

5.5 VALIDITY OF TENDER

All tenders submitted will remain valid for acceptance for a period of **Sixty days (60) from the date of closure** of this tender.

5.6 ACCEPTANCE OF TENDER

The successful tender will be notified in writing of EFL's acceptance of his tender, and any agreed variations and/or additions which may pertain. The letter of acceptance will form the basis of the contract in conjunction with the terms and conditions contained in the tender documents.

5.7 REJECTION OF TENDER

EFL reserves the right to accept or reject any non-conforming tender. However, tenderers may submit an alternate tender provided it is duly marked as such.

5.8 CONSTRUCTION OF CONTRACT

The Contract established by the issue of the Principals' letter of acceptance shall operate in all aspects and be governed and

construed with respect to the law for the time being in force in the country of Fiji.

5.9 CANCELLATION

This tender will be construed as and when formed into a contract being available for cancellation by either party by giving three (3) months' notice in writing to the other. Cancellation shall not be performed when the contract is under a Force Majeure subsisting nor within one month of the lifting of a Force Majeure.

5.10 PAYMENT & DISCOUNT

Credit terms shall be **30 days**, that is, purchase made in the current month will be paid for by the end of the following month. However, tenderers must specify any additional discounts offered for the early settlement/payment of accounts or for volume discounts.

5.11 ASSIGNMENT OF CONTRACT

This Contract is made between EFL and the successful tenderer and during the life of the contract as determined shall not be assigned to subcontractors or other persons without the prior approval in writing of EFL.

5.12 ESTIMATED USAGE

EFL envisages that the total requirements will be as tabulated in the Appendix C and Appendix D. EFL does not bind themselves to these estimates and reserve the right to exceed or reduce the forecasted usage. The Contractor must agree that he will make no claim of EFL's estimated usage during the contracted periods.

5.13 TECHNICAL SERVICES

The level of technical and support services available to the EFL will be a factor in the award of the contract. It is EFL's requirements to be provided with and kept updated with the most

up to date technological support. Tenderers shall include in their proposal details of their technical and support services.
EFL's minimum requirements are as follows:

a. The Contractor in conjunction with each of EFL's operating and engineering sections is to constantly review practices and conditions with the aim of increasing performance to reduce the operating costs. Details of the proposed method of establishing realistic targets and the format for reporting of results are required to be submitted with the tender proposal.

b. Schedules of monthly visits from technical representatives.

c. Emergency call-out facilities

d. Regular surveys to ensure that the fuel being consumed is appropriate to the end use and continued recommendations for improvement in application.

e. Technical training of staff including updates on technological change.

f. Give assurance to EFL that all dispensing equipments used for trading do comply with Local regulation. i.e. Meters, Storage Tanks, Product trucks, etc.

5.14 GUARANTEES

The Contractor shall guarantee the quality of all products to the specification accepted by EFL. The Contractor shall guarantee further; all on-site services to the level agreed between the tenderer and EFL prior to the award of the contract. The type of guarantee for performance of product and service that EFL is seeking from the Contractor is as follows:

"In the event of non-performance of product or service for any reason other than negligence on the part of EFL, the contractor shall reimburse EFL a business interruption payment without prejudice based on its position immediately prior to the failure for any similar or proven resulting damages whatsoever".

For this type of guarantee EFL envisages that the Contractor

would maintain a suitable business interruption policy

5.15 WEIGHBRIDGE CERTIFICATE OR TONNAGE CALCULATIONS

For all bulk products a weighbridge certificate shall be presented with each delivery as and when requested or via tonnage calculation and invoiced as per procedure below:

Invoices

The Supplier must ensure that all invoices issued by it to EFL in relation to products delivered by it to EFL are accurate and provide all necessary details relating to the delivered products including:

a. Density of delivered products at 15 degrees centigrade;
(Please note the density at 15 degree centigrade should be related to the refinery certificate).

b. Temperature of delivered product at time of delivery.

c. Volume of delivered product in litres and equivalent metric tons based on the pricing template and applicable to the date of delivery

d. The base price for the delivered product.
e. The volume correction factor applicable to the date of delivery.

5.16 PRODUCT SPECIFICATION

The Product Specification will be those accepted by EFL prior to the award of the contract. The specification shall include a guaranteed shelf/storage life where applicable.

5.17 TESTING AND QUALITY CONTROL (Bulk Products Sampling)

The Contractor shall perform acceptance tests on a sample of each deliver of bulk product prior to discharge into EFL's holding

areas.
Alternatively, the Contractor shall perform tests at the time of pumping into EFL's varying tankerage. Secondary testing will be carried out after settling and ownership will pass only after acceptance of the results of the secondary testing.

Acceptance

All bulk products shall be accepted following the successful completion of testing carried out as in the preceding paragraph and which demonstrates that the products meet specification. The acceptance test methods used shall be those agreed prior to award of the contract between EFL and the tenderer.

Rejection

Where rejection may occur all rejected product shall, subject to any lien thereof which EFL may have in circumstances, be removed by the Contractor at its own expense from the EFL's premises and if EFL has not exercised its right to cancellation shall be replaced by product which is in accordance with the specification at no additional expense to EFL. Any rejected product not removed by the Contractor from EFL's premises within 30 days of the date of notification of the rejection, may be returned to the Contractor by EFL at the Contractors cost.

5.18 SUPPLY DEFINITIONS

Due to the unique nature of the Petroleum Industry the tenderer is requested to detail the definition of the supply terms which will be used in this tender such as the definitions of FOB, FREIGHT and how it is calculated, INSURANCE and the way it will be calculated, OCEAN LOSS and calculations, DUTY, the definition of an M R TANKER and its capacity, the definition of an LCT TANKER and its capacity, the definition of MARGIN applicable to tender.

The tenderer will also be required to detail the mode of delivery and discharge procedure required at EFL's terminal. This shall include the requirements for the EFL's personnel being attendant and the duties required by those personnel.

5.19 DOCUMENTATION

For the purpose of the tender each tenderer will be required to detail the documentation which will support their delivery of both local and international products. This documentation will include but not be limited to refinery certificate, a full acceptance test report, a report of cargo discharge, an original invoice, price calculation basis, a copy of the Singapore Spot verification, if this is being used as the standard, or similar validation. These documents must be in the hands of EFL within three days of the delivery occurring or as agreed.

5.20 ESCALATION PROVISIONS

Any product pricing escalations or changes shall be as detailed in each individual product clauses mentioned above and will need to be mutually agreed between the supplier and EFL.

5.21 FORCE MAJUERE

a. All orders from the Principals are to be filled within the designated delivery time provided that those delivery times are within the agreed framework of the terms of the contractor but not withstanding anything contained herein to the contrary no failure or omission by the company to carry out or observe any of the terms or provisions, stipulations or conditions shall give rise to any claim against it or be deemed to be a breach if the same shall arise directly or indirectly form a Force Majeure subsisting.

b. For the purpose of this cause Force Majeure shall include Act of God; a pandemic, epidemic, invasion, riot, civil commotion, revolution; conspiracy; civil war; mutiny; military; naval war-like operations whether before or after declaration of war and whether war in fact shall be or have been declared or not; fire or epidemic.

   Lockouts, labour disturbances or strike shall be considered as Force Majeure only if they are beyond the Contractors ability

to have any effect on their outcome.

Inability of the Contractor to procure stocks or to procure sufficient stocks or sufficient transport facilities to enable its normal stocks in Fiji to be maintained, if this inability is beyond the control of the Contractor.

In the event of any of the above mentioned, the Purchaser shall be free to purchase from any other supplier any deficiency or deliveries caused by operation of this clause. If the operation of this clause causes a change to the pricing of the goods, Purchaser shall be free to purchase from other suppliers and the seller shall be obliged to examined his liability to subsidise the difference in purchase price between the contracted price and the actual price by the purchaser.

5.22 TESTING REQUIREMENT AND TECHNOLOGY ADVANCEMENT

The Principals have a responsibility to stay abreast of technology advancement. To achieve this end the Principals reserve the right to purchase similar and alternative products from other sources throughout the period of the contract for the purpose of testing and evaluating alternative product.

5.23 ENVIRONMENT

In view of environmental legislation, tenderers are required to provide provisions in their tender documents for ways and means for disposal of used fuels and/ or used oils.

5.24 STORAGE FACILITES

Location where contractor's storage facilities are installed in EFL's premises, the contractor shall ensure the storage facilities comply with: Pacific Island Protection Storage and Handling Standard PI 1 of 1994; EFL's HSE requirements and the Fiji Occupational Health and Safety Act, 1996; AS1940 - The storage and Handling of Flammable and combustible liquids; and relevant international technical standards that are applicable for facilities that store, transfer and use fuel.

5.25 EXIT PLAN

The successful tenderer (s) will need to work out an exit plan with the current supplier on purchasing/leasing of current storage infrastructure and equipment before full operation.

They will also need to include in the offer the proposed exit plan if another supplier takes over the contract at the end of this proposed contract period. Do take note that all fuel storage equipment and tanks at the various power stations are owned by EFL.

APPENDIX A

DIESEL FUEL (IDO) TECHNICAL SPECIFICATION*

TEST	UNIT	LIMIT	METHOD
Appearance		Clear & Bright	ASTM D4176 Proc 2
Colour		2 max	ASTM D1500
Density @ 15°C	kg/m^3	820 - 850	ASTM D4052
Cetane Index		46 min	ASTM D976
Derived Cetane Number		51 min	ASTM D6890/D613
Flash Point	°C	64 min	ASTM D93
Viscosity-kinematic @ 40°C	cSt	2.0 - 4.5	ASTM D445
Lubricity	µm	460 max	IP450
Filter Blocking Tendency	FBT	2.0 max	IP387
Carbon content on 10% bottoms	wt%	0.20 max	ASTM D4530
Ash	mg/kg	100 max	ASTM D482
Water	mg/kg	200 max	ASTM D6304
Particulate matter	mg/kg	24.0 max	ASTM D6217
BS&W	vol%	0.05 max	ASTM D2709
Aromatics-Polycyclic	wt%	11 max	IP 391
Sulphur-total	mg/kg	10 max	ASTM D5453/D7039
Copper Corrosion 3h @ 50°C		1 max	ASTM D130
Distillation 95% recovered	°C	360 max	ASTM D86
Oxidation Stability(Insolubles)	mg/100mL	2.5 max	ASTM D2274
Conductivity	pS/m	50 min	ASTM D2624
Energy Content (Thermal Energy)	MJ/kg	45.3 min	BS 2869 PART II
	kcal/kg	10,820 min	

***** *IDO Product must meet the Fiji Government specification for Diesel, refer to "Trade Standards (Fuel Standards) (Amendment) (No. 2) Order 2018". Dated 28th day of December 2018 and the Trade Standards (Fuel Standards) Order 2007, the "Principal Order".*

APPENDIX B

Power Station Capacities

Power Station	Set	Make	Model	Installed Capacity (MW)
Vuda	1	Mirrlees Blackstone	KV16	5.74
	2	Mirrlees Blackstone	KV16	5.74
Vuda	3	Wartsila	18V32LN	6.30
	4	Wartsila	20V32LN	6.30
New Vuda	1	Wartsila	20V32LN	9.78
Nadi	1	Caterpiller	CAT3516 DITA	1.40
	2	Caterpiller	CAT3516 DITA	1.40
	3	Cummins	QSK60	1.60
	7	Cummins	KTA50	1.00
	8	Cummins	KTA50	1.00
Qeleloa	1	Caterpillar	CAT 3516 EFI	1.40
	2	Cummins	KTA50	1.00
	3	Cummins	KTA50	1.00
Rakiraki	1	Caterpiller	CAT3516 DITA	1.40
	2	Caterpiller	CAT3516 DITA	1.40
Sigatoka	1	Cummins	KTA50	1.00
	3	Caterpillar	CAT3516	1.40
	5	Cummins	QSK60	1.60
	6	Cummins	QSK60	1.60
	7	Cummins	QSK60	1.60
	8	Cummins	QSK60	1.60
	9	Cummins	KTA50	1.00
Deuba	4	FG Wilson	P2250-1E	1.60
	5	Cummins	KTA50	1.00
	6	Cummins	KTA50	1.00
Old Kinoya	1	Mak Cat 1	CM32	7.45
	2	Mak Cat 2	CM32	7.45
	3	Mak Cat 3	CM32	7.45
	4	Mak Cat 4	CM32	7.45
Old Kinoya	8	Wartsila	W38	10.33
	9	Wartsila	W38	10.33
	1	Wartsila	W32	8.90
New Kinoya	2	Wartsila	W32	8.90
	3	Wartsila	W32	8.90
	4	Wartsila	W32	8.90
Korovou	1	Cummins	KTA50	1.00
	2	Caterpillar	C18	0.50
Rokobili	12	Cummins	QSK38	1.00
	13	Cummins	QSK38	1.00
	14	Cummins	QSK38	1.00
	15	Cummins	QSK38	1.00
	16	Cummins	QSK38	1.00
Labasa	1	Ruston	12RK270	2.74
	2	Cummins	KTA50	1.00
	3	Caterpillar	CAT3516	1.60
	4	Caterpillar	CAT3516	1.60
	5	Cummins	QSK60	1.60
	6	Ruston	16RK270	3.60
	7	Cummins	KTA50	1.00
	8	Cummins	KTA50	1.00
	9	Cummins	KTA50	1.00
	10	Caterpillar	CAT 3516	1.00
	11	Cummins	QSK60	1.60
	12	Cummins	KTA50	1.00
Savusavu	1	Cummins	KTA50	1.00
	2	Caterpillar	CAT3516 DITA	1.40
	3	Caterpillar	CAT3412	0.50
	4	Cummins	KTA 50	1.00
	5	Caterpillar	CAT3516 DITA	1.40
Waiyevo	1	Cummins	KTS50	1.00
	2	Cummins	KTA50	1.00
Levuka	1	Cummins	QSK23-G3	0.60
	2	Cummins	QSK23-G3	0.60
	3	Cummins	QSK23-G3	0.60
	4	Cummins	QSK23-G3	0.60
	5	Caterpillar	Cat 3412	0.50

APPENDIX C

IDO Consumption (Metric Tons)			
Power Station	**2018**	**2019**	**2020**
Vuda	3,032	2,300	202
Nadi	2,235	1,158	186
Qeleloa	117	161	23
Rakiraki	247	17	29
Sigatoka	2,085	2,396	714
Deuba	423	324	186
Kinoya	6,633	5,217	1,333
Korovou	33	25	22
Rokobili	845	119	57
Labasa	8,014	6,790	6,531
Savusavu	3,354	3,137	2,729
Levuka	2,310	1,960	2,133
Nadarivatu	2		
Wailoa			2
Taveuni	12		
TOTAL	**29,344**	**23,604**	**14,146**

APPENDIX D

Estimated Annual Volume

Estimated Annual Volume: **14,000** metric tons of IDO per year.

The above is the estimate that EFL will purchase during a 12-month period. EFL reserves the right to exceed or reduce the above estimated Annual Volume.

The estimated volume will be subject to variation of up to **+ / - 35%** during the contract period.

A 3-month advance usage forecast will be provided by EFL.

APPENDIX E

CERTIFICATE OF QUALITY
(EXAMPLE ONLY)

Certificate of Quality

Sample Source: TK1122
Sample Date/Time: 19-Jan-21/05:30:00 hrs
Blend: TK1122-109
Sample ID: 20468100

Product: GASOIL 0.001% SULFUR.
Formula: GPII0010A0 GASOIL, S10

PROPERTY	TEST METHOD	SPEC (Min-Max)	RESULT	UNITS
* Appear @ 25DegC, Haze Level	ASTM_D4176	Max. 1	1	
* Total Aromatic Hydrocarbons	IP_391	15.0-35.0	20.3	wt%
* Polycyclic Aromatic Hydrocarbons	IP_391	<=8	<1	wt%
** Ash	ASTM_D482	<=0.010	<0.001	wt%
Water & Sediment In Distillate	ASTM_D2709	<=0.05	0.01	vol%
** Micro Carbon Residue(10%Bt)	ASTM_D4530	<=0.200	<0.010	wt%
Calculated Cetane Index by Proc A	ASTM_D4737	>=48	56	
* Derived Cetane Number	ASTM_D613	>=51.0	54.1	
Cloud Point	ASTM_D2500	<=10	-15	deg_C
* Cold Filter Plugging Point	IP_309	<=12	-16	deg_C
Color	ASTM_D1500	Max. 2.0	L0.5	
Conductivity	ASTM_D2624	150-600	<1	pS/m
Fuel Temp at time of Conductivity test	ASTM_D2624		26	deg_C
Copper Corrosion (3Hrs At 100 Deg.C)	ASTM_D130	Max. 1	1A	
* Density @ 15 Deg.C, kg/m3	ASTM_D4052	820.0-845.0	834.5	kg/m3
Dist. IBP	ASTM_D86		206.5	deg_C
Dist. 10% Recovered	ASTM_D86		237.5	deg_C
Dist. 50% Recovered	ASTM_D86		271.3	deg_C
Dist. 90% Recovered	ASTM_D86	>=282	309	deg_C
Dist. 95% Recovered	ASTM_D86	<=360	321	deg_C
Dist. % Recd @ 250°C	ASTM_D86	<=64.9	21.6	vol%
Dist. % Recd @ 350°C	ASTM_D86	>=85.0	>95.0	vol%
Dist. FBP	ASTM_D86		333.2	deg_C
Fatty Acid Methyl Ester (FAME)	DECLARED	<=0.1	<0.1	vol%
Flash Point - PMCC	ASTM_D93	>=66.0	86.0	deg_C
* Filter Blocking Tendency - Proc_A	IP_387	<=2.0	1.0	
Hydrogen Sulfide in Liquid Phase Proc A	IP_570A	<=2.0	<0.6	mg/kg
* Lubricity, wear scar diameter @ 60°C	IP_450	<=460	370	micron
** Total Acid number	ASTM_D974	<=0.25	<0.02	mgKOH/g
** Strong Acid Number	ASTM_D974	Max. NIL	NIL	mgKOH/g
Odour	ODOR	MERCHANTABLE	MERCHANT	
** Oxidation Stability (insolubles)	ASTM_D2274	<=2.0	0.5	mg/100ml
Particulate Contamination, Total	ASTM_D6217	<=24.0	1.4	mg/kg
Pour Point	ASTM_D97	<=9	-18	deg_C
Total Sulfur (mg/kg = wtppm)	ASTM_D5453	<=10.0	7.4	mg/kg
Viscosity @ 40 Deg.C	ASTM_D445	2.000-4.100	3.013	cSt
Water Content	ASTM_D6304	<=200	52	mg/kg

TENDER SUBMISSION CHECK LIST

The Bidders must ensure that the details and documentation mention below must submitted as part of their tender Bid

Tender Number _____

Tender Name_____

1. Full Company Name:_____
   (Attach copy of Registration Certificate)
2. Director/Owner(s):_____
3. Postal Address:_____
4. Phone Contact:_____
5. Fax Number:_____
6. Email address:_____
7. Office Location:_____
8. TIN Number:_____
   (Attach copy of the VAT & TIN Registration Certificate – Local Bidders Only)
9. Company Registration Number:_____
   (Attach copy of the Business License)
10. FNPF Employer Registration Number:_____
    (For Local Bidders only)
11. Contact Person:_____

I declare that all the above information is correct.

Name: _____ Position: _____ Sign: _____

Date: _____

Submission of Tender

Two (2) hard copies of the tender bids in sealed envelope shall be deposited in the tender box located at the Supply Chain Office at the EFL Head Office, 2 Marlow Street, Suva, Fiji.

Courier charges for delivery of Tender Document must be paid by the bidders.

This tender closes at 4:00 p.m. (16.00hrs Fiji time) on Wednesday 31st March, 2021.

Each tender shall be sealed in an envelope with the envelope bearing only the following marking:

MR 44/2021
Supply of Industrial Diesel Oil

The Secretary, Tender Committee
Energy Fiji Limited
Supply Chain Office
Private Mail Bag,
Suva

It must also indicate the name and address of the tenderer on the reverse of the envelope.

All late tenders, unmarked Envelopes and envelopes without bidder's name and address on the reverse on the envelope will be returned to the Tenderers unopened. (Bids via e-mail or fax will not be considered).

The bidders must ensure that their bid is inclusive of all Taxes payable under Fiji Income Tax Act and must have the most current Tax Compliance Certificate.

For further information or clarification please contact our Supply Chain Office on phone **(+679) 3224360 or (+679) 9992400.**

Bidders are requested to submit a:

- **Valid Tax Compliance Certificate**
- **FNPF Compliance Certificate**
- **FNU Compliance Certificate**

The Tender Bids particularly the "Price" must be typed and not hand written.

(Tender Submission via email or fax will not be accepted)