



**FIJI ELECTRICITY AUTHORITY
TENDER NO MR 154 /2017**

**SPECIFICATIONS FOR THE SUPPLY OF LUBRICANT
AND TRANSFORMER OILS**

1.0 Introduction

The Fiji Electricity Authority (hereinafter referred to as the “FEA or Authority”) invites tenders for the supply of Lubricant and Transformer Oils for a contract period of three (3) years. Appendix B of this document provides a list of lubricating oils and volume usage.

1.1 FEA Delivery Points

Currently the Authority 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.

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. Vatuwaqa Power Station
8. Monasavu Depot
9. Rakiraki Power Station
10. Korovou Power Station
11. Qeleloa Power Station
12. Wailoa Power Station
13. Nadarivatu Power Station

1.1.2 Vanua Levu

14. Labasa Power Station
15. Savusavu Power Station
16. Wainiqueu Power Station

1.1.3 Ovalau

17. Levuka Power Station

1.1.4 Taveuni

18. Waiyevo Power Station

All plants/generator sets at each site are detailed in Appendix A.

2.0 General Requirements

2.1 Lubricating Oil Containers

All supplies of lubricating oils shall be in properly sealed containers in sound condition and volumes should be provided in bulk with relevant dispensing equipment. The Authority retains the right to return any product not complying with the above or found to be contaminated, to the successful tenderer at the successful tenderers cost. All empty drums must be collected by the successful tenderers. The Authority will not take responsibility for the storage of empty drums at its power stations and/or depots.

2.2 Delivery

The successful tenderer shall deliver to the Authority, Lubricating oils at its Power Stations situated at Viti Levu, Vanua Levu, Ovalau and Taveuni as detailed in 1.1.1, 1.1.2, 1.1.3, 1.1.4 above.

2.3 Power Plant & Lubes Details

Appendix B provides the consumption figures for lubricating oils at the various Power Stations for the year 2015 and 2016.

Appendix A provides details about the types of engines and other plants. The Authority would welcome any alternative or equivalent product; provided there is adequate technical data supporting the alternative offer is given and accepted by the equipment manufacturer. Preference will also be given for products which could be used instead of a number of other products to streamline and minimize the range of products to be held by the Authority. In this regard, it would be in the interest of tenderers to provide information on any additional service that will be beneficial to the Authority.

2.4 Annual Consumption

The average annual consumption of lubricants and transformer oils is given in Appendix B.

2.5 Tendered Pricing Format

Appendix C includes a Price schedule to be completed by the bidder.

Details must be provided including:

- (i) Method of proposed supply
- (ii) Price per litre or kg in different pack sizes (1500 litres bulk [tanktainers], 205 Litres, 20litres, 5 litres for lubricating oils and 180kg,20kg,2.5kg for greases) delivered at Viti Levu sites, Labasa, Savusavu, Ovalau, Taveuni and free from any other charge and costs. These prices must remain fixed and subject for a review as per the Price Review Mechanism (Section 2.6). Any changes in prices shall be mutually agreed by the supplier and FEA before it is implemented.
- (iii) Tenderers will need to submit a proposal on how to implement their lubricant products to existing systems and indicate costs involved together with a responsibility matrix.
- (iv) A drum deposit **will not** be applicable
- (v) The tenderers must specify the method of supply in bulk (tanktainers-1500 litres) for specific product and associated bulk dispensing equipment.
- (vi) The tenderer must specify any additional lubricant dispensing equipment they could supply and associated backup services.
- (vii) **The removal of waste oil from FEA sites will be the responsibility of the supplier at no cost to FEA. This is mandatory for compliance of tender bids.**
- (viii) The tenderer shall specify oil analysis services and turnaround times for the sample analysis reports.
- (ix) The tenderer must specify any additional value adding services (such as Lube surveys, etc) to be provided during the course of the contract.

2.6 Price Review Mechanism

The pricing for the lubricating oils are divided into three (3) cost components and shall be reviewed on a periodic basis as tabulated below:

Cost Component	Composition on Price	Reviewed
1. Base Oil	65%	Quarterly (every 3 months)

2. Additives	15%	Quarterly (every 3 months)
3. Others	20%	Annually

The Quarterly price review based on movement of Base Oil Costs and Additives

The successful tenderer must provide the preceding three (3) month data for price movements to the base oils (SN100, SN150, and BRT) and additives. A change in price only to be triggered by a variance in price movement by 5% (up or down) of the average base oil and additive cost versus the previous quarter.

Annual price review based on “Others”

Annual increase to this component (20%) in accordance to half of the change in local Consumer Price Index (CPI) factor as published by the Reserve Bank of Fiji, in line with the “Onshore Cost Component” review of the FEA IDO price.

2.7 Transformer Oil

The successful tenderer shall deliver to the Authority, Transformer Oils in 205 litre drums, to its two main sites at Navutu Depot Lautoka and Kinoya Stores, Suva.

2.7.1 The transformer oil to be supplied under this tender shall be to current British Standards 148, SAA AS1767 and IEC60076.

2.7.2 Consumption of Transformer Oils for the year 2014, 2015 and 2016 in litres is given in the table below:

Year	Consumption (Litres)
2014	22,763
2015	15,352
2016	9,560

3.0 Other Value Adding Services

The tenderers are required to list all services (HSE training, surveys, testing, product training and oil analysis, management training, plans for new storage facility, etc) they are prepared to provide in the way of technical, management and proactive customer services as these will be taken into account when tenders are being evaluated.

APPENDIX A: Details of Power Station Generator Sets

Location	Station	Sets	Make	Model	Speed RPM	Year	Installed (MW)	
Viti Levu	Vuda- IDO	1	Mirrlees Blackstone	KV16	500	1976	5.74	
		2	Mirrlees Blackstone	KV16	500	1976	5.74	
	Vuda - HFO	3	Wartsila	18V32LN	750	2001	6.3	
		4	Wartsila	18V32LN	750	2001	6.3	
	Nadi		1	Caterpillar	CAT3516	1500	2002	1.04
			2	Caterpillar	CAT3516	1500	2002	1.04
			3	Cummins	KTA 50	1500	2014	1.00
			5	Cummins	KTA 50	1500	2014	1.00
			6	Cummins	KTA 50	1500	2014	1.00
			7	Cummins	KTA 50	1500	2014	1.00
			8	Cummins	KTA 50	1500	2014	1.00
			9	Cummins	KTA 50	1500	2014	1.00
			10	Cummins	KTA 50	1500	2014	1.00
			11	Cummins	KTA 50	1500	2014	1.00
			12	Cummins	KTA 50	1500	2014	1.00
			Qeleloa		1	Caterpillar	CAT3516	1500
	2	Caterpillar			CAT3516	1500	2002	1.4
	3	Cummins			KTA 50	1500	2014	1.00
	4	Cummins			KTA 50	1500	2014	1.00
	5	Cummins			KTA 50	1500	2014	1.00
	6	Cummins			KTA 50	1500	2014	1.00
	7	Cummins			KTA 50	1500	2014	1.00
	Rakiraki		1	Caterpillar	CAT3516	1500	2002	1.04
			2	Caterpillar	CAT3516	1500	2002	1.04
	Sigatoka		1	Cummins	KTA 50	1500	2014	1
			2	Caterpillar	CAT3516	1500	2000	1.04
			3	Caterpillar	CAT3516	1500	2000	1.04
			4	Cummins	KTA 50	1500	2014	1
			5	Cummins	QSK60	1500	2011	1.6
			6	Cummins	QSK60	1500	2011	1.6
			7	Cummins	QSK60	1500	2011	1.6
			8	Cummins	QSK60	1500	2011	1.6
	Deuba		4	Cummins	QSK60	1500	2014	1.6
			5	Cummins	QSK60	1500	2012	1.6
			6	Caterpillar	CAT3516	1500	2014	1.2
	Rokobili		3	Caterpillar	CAT3516	1500	2015	1.20
			9	Cummins	KTA 50	1500	2015	1.00
			11	Cummins	KTA 50	1500	2015	1.00
			12	Cummins	QSK38	1500	2015	1.00
			13	Cummins	QSK38	1500	2015	1.00
			14	Cummins	QSK38	1500	2015	1.00
			15	Cummins	QSK38	1500	2015	1.00
	Kinoya-IDO		1	Mak Cat 1	CM32	750	2005	7.45
			2	Mak Cat 2	CM32	750	2005	7.45
			3	Mak Cat 3	CM32	750	2005	7.45
			4	Mak Cat 4	CM32	750	2005	7.45
	Kinoya-HFO		8	Wartsila	18V38	750	2001	10.33
9			Wartsila	18V38	750	2001	10.33	
New Kinoya-HFO		1	Wartsila	W20V32	750	2015	8.90	
		2	Wartsila	W20V32	750	2015	8.90	
		3	Wartsila	W20V32	750	2015	8.90	
		4	Wartsila	W20V32	750	2015	8.90	
Korovou		1	Cummins	KTA 50	1500	2016	1	
		2	Cat	C18	1500	2006	0.5	
Vanua Levu	Labasa	1	Ruston	12RK270	750	1998	2.72	
		2	Caterpillar	CAT3516	1500	2009	1.6	
		3	Caterpillar	CAT3516	1500	2009	1.6	
		4	Caterpillar	CAT3516	1500	2009	1.6	
		5	Cummins	QSK60	1500	2014	1.6	
		6	Ruston	16RK270	750	2000	3.6	
		7	Cummins	KTA 50	1500	2014	1.00	
		8	Cummins	KTA 50	1500	2014	1.00	
		9	Cummins	KTA 50	1500	2014	1.00	
		10	Caterpillar	CAT3516	1500	2014	1.60	
		11	Cummins	KTA 50	1500	2012	1.00	
Savusavu		1	Cummins	KTA 50	1500	2014	1	
		2	Caterpillar	Cat3516	1500	2012	1	
		3	Caterpillar	Cat3412	1500	2012	0.58	
		4	Cummins	KTA 50	1500	2014	1	
		5	Caterpillar	Cat3412	1500	2012	0.58	
Ovalau	Levuka	5	Caterpillar	CAT 3412 C STA	1500	2008	0.6	
		1	Cummins	QSK23G3	1500	2006	0.6	
		2	Cummins	QSK23G4	1500	2016	0.6	
		3	Cummins	QSK23G5	1500	2016	0.5	
Taveuni	Waiyevo	4	Caterpillar	CAT 3412 C STA	1500	2008	0.5	
		1	Cummins	KTA 50	1500	2016	1.00	
		2	Cummins	KTA 50	1500	2016	1.00	

Station	Sets	Renewable Sets				
		Make	Type	Speed	Year	Installed (MW)
Wailoa	1	TIBB (Milano)-Pelton Wheel	Hydro	750	1983	20.8
	2	TIBB (Milano)-Pelton Wheel	Hydro	750	1983	20.8
	3	TIBB (Milano)-Pelton Wheel	Hydro	750	1983	20.8
	4	TIBB (Milano)-Pelton Wheel	Hydro	750	1983	20.8
Butoni Wind Farm	36	GEV MP Vergnet SA	Wind		2007	10
Wainikasou	1	Frances Turbine	Hydro	1500	2003	3.3
	2	Frances Turbine	Hydro	1500	2003	3.3
Nagado	1	Pelton Wheel	Hydro	1500	2004	2.8
Nadarivatu	1	Pelton Wheel	Hydro	428	2012	22
	2	Pelton Wheel	Hydro	428	2012	22
Wainiqeu, Savusavu	1	Chinese - pelton wheel	Hydro	1000	1992	0.4
	2	Chinese - pelton wheel	Hydro	1000	1992	0.4
Somosomo	1	Chinese - pelton wheel	Hydro	1000	2016	0.35
	2	Chinese - pelton wheel	Hydro	1000	2016	0.35

APPENDIX B: Lubricating Oil Usage (Litres) 2015 - 2016

	Description	2015	2016
1	AURELIA TI 4055	151,765	207,710
2	Rubia TIR7400 15W40	129,392	103,800
3	Disola M 3015	4,130	12,330
4	Disola M 4015	56,385	23,575
5	Preslia 32	3,120	2,704
6	Preslia 46 (Wainiqeu)	416	1,040
7	Preslia 68 (Wailoa)	8,320	4,160

	HFO LUBE OIL - AURELIA TI 4055		Rubia TIR7400 15W40		Disola M 3015		Disola M 4015	
	2015	2016	2015	2016	2015	2016	2015	2016
Power Stations								
Deuba			8,320	3,120				
Kinoya	129,215	179,010	14,160	16,340			43,060	14,350
Korovou								
Labasa			8,320	8,720	4,130	10,250		
Levuka			11,440	12,480				
Nadi			17,472	10,400				
Navutu								
Qeleloa			8,320	5,200				
Rakiraki			8,320	5,200				
Rokobili			32,240	20,500				
Savusavu			11,440	8,320		2,080		
Sigatoka			9,360	13,520				
Vuda	22,550	28,700					13,325	9,225
Total	151,765	207,710	129,392	103,800	4,130	12,330	56,385	23,575

APPENDIX C: Price Schedule

	Lubricating Oils (FEA Usage)		Proposed Product Details		
Item #	Product Name	Pack Size (Litres)	Product Name	Pack Size (Litres)	Price (FJ\$ VEP/Litre)
1	Preslia 68	208			
2	Preslia 46	208			
3	Preslia 32	208			
4	Multis Complex HV 2	180			
5	Multis Complex S2 A	180			
6	Multis EP 2A	180			
7	RUBIA TIR 7400 15W40	208			
8	Isovoltine II	208			
9	Disola M 3015	205			
10	Disola M 4015	205			
11	AURELIA TI 4055	205			

Submission of tenders

In addition **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 FEA Head Office, 2 Marlow Street, Suva, Fiji.

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

This tender closes at **4:00pm, on Wednesday 9th of August, 2017.**

For further information contact The Secretary Tender Committee, by e-mail TDelairewa@fea.com.fj

Each tender shall be sealed in an envelope with:

The envelope bearing only the following marking:

Tender – MR154/2017 – Supply of Lubricating Oils

**The Secretary, Tender Committee
Fiji Electricity Authority**

**Supply Chain Office
Private Mail Bag, Suva**

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

Tenders received after **4:00pm** on the closing date of **Wednesday 9th of August, 2017** will not be considered.

All late tenders, unmarked envelopes and envelopes without bidder's name and address on the reverse will be returned to the Tenderers.