

HFO Transfer Pump Requirements

The Fiji Electricity Authority (FEA) is expanding its Heavy Fuel Oil (HFO) storage capacity. An additional 1300MT HFO storage tank is being constructed at its new Kinoya Power Station.

FEA is requesting tenders for the supply of a reliable HFO Transfer Pump and Electrical Pump Controller panel.

Requirements:

1. Supply 1 x HFO Transfer pump unit with Control Panel. All site electrical works will be carried out by FEA. (The pump may be provided with a variable speed drive.) Preference is for the Pump unit to be skid mounted on a steel plate / skid with an electrical motor and flameproof fittings. All equipment and materials must be selected for use in high humidity and a tropical environment.
2. Pump Flow rate at 4,000 L/min @ 34 metres and 3,600 L/min @ 38 meters.
3. Pump inlet and outlet connections will be via a 4" Flange (ANSI Class 150). Ensure all necessary pump protection devices are provided with equipment.
4. The System Design condition is as follows:

Liquid / Product: Heavy Fuel Oil (Specification attached)

Viscosity at 50 deg C, mm²/s : 180

Density at 15 deg C – kg/m³ : 900 – 991

Size of transfer pipeline: 4" Schedule 40

Assume tropical weather conditions with high humidity and close to the sea.

Price Schedule:

ITEM	ITEM DESCRIPTION	Unit Price	TOTAL PRICE
1	Supply skid mounted Pump unit		
2	Supply Electrical control panel for the pump unit		
3	Provide necessary Operation and maintenance manuals		
4	Shipping Option and Cost (CIF, DDU or Ex - works)		
		TOTAL (VEP)	
		VAT 15%	
		TOTAL (VIP)	

* Please indicate Currency used in the tender bid and also shipping option.

Typical HFO Sample Test Data

Method	Notes	Properties	Units		
D4052		Upper Density @ 15°C	kg/L	0.9852	
D1298		Density @ 15°C	kg/L	0.9876	0.9000 - 0.9910
D93A	(1)	PM Flash Point	°C	74.0	min 65.0
D97		Pour Point (Upper)	°C	-3	max 10
D445		Viscosity @ 50°C	cSt	171.1	max 180.0
D4294		Sulphur	%mass	3.06	max 3.50
ISO 8217 Annex E		Gross Specific Energy	MJ/kg	42.5	min 41.9
D95		Water	%vol	0.10	max 0.50
D974		Strong Acid Number	mgKOH/g	Nil	Nil
D664		Total Acid Number	mgKOH/g	0.12	max 3.00
D4530		Micro Carbon Residue	%mass	11.9	
D189 chart		Conradson Carbon Residue	%mass	11.90	max 15.00
D482		Ash	%mass	0.021	max 0.100
IP375		Total Sediment	%mass	<0.01	max 0.10
IP390 IP375 Pot		Potential Sediment	%mass	<0.01	max 0.10
ISO8217 Annex F		Calculated Carbon Aromaticity Index	-	855	
IP501 Na, V		Sodium	mg/kg	4	
		Vanadium	mg/kg	63	max 200
IP501 Al, Si		Aluminium	mg/kg	10	
		Silicon	mg/kg	10	
		Aluminium + Silicon	mg/kg	20	max 70
D5185 mod A		Lead	mg/kg	<1	
IP501 Other		Calcium	mg/kg	<1	max 30
		Phosphorus	mg/kg	<1	max 15
		Zinc	mg/kg	<1	max 15

Tender Submission - Instruction to bidders

It is mandatory for Bidders to upload a copy of their bid in the **TENDER LINK** Electronic Tender Box no later than **4:00pm, on Wednesday 23rd December, 2015.**

To register your interest and tender a response, view 'Current Tenders' at: <https://www.tenderlink.com/fea>

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

In addition, hard copies of the tender, one original and one copy must be deposited in the tender box located at the FEA Head Office, 2 Marlow Street, Suva, Fiji no later than **4:00pm, on Wednesday 23rd December, 2015**- Addressed as

Tender – MR 194/2015 – HFO Transfer Pump Unit for the New Kinoya Power Station
The Secretary Tender Committee
Fiji Electricity Authority
Head Office
Suva
Fiji

- **Hard copies of the Tender bid will also be accepted after the closing date and time provided a soft copy is uploaded in the e-Tender Box and it is dispatched before the closing date and time.**
- **Tenders received after 4:00pm on the closing date of Wednesday 23rd December, 2015 will not be considered.**
- **Lowest bid will not necessarily be accepted as successful bid.**
- **It is the responsibility of the bidder to pay courier chargers and all other cost associated with the delivery of the hard copy of the Tender submission.**

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 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: _____