



**ENERGY FIJI LIMITED**  
2 Marlow Street, Suva

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# **ENERGY FIJI LIMITED**

# **BIDDING DOCUMENT**

MR 79/2021

**PREFERRED SUPPLIER FOR THE SUPPLY  
OF AP40, AP65 BASE COURSE AND  
SCREENED 20mm CRUSHED METAL**



# ENERGY FIJI LIMITED

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**TENDER NO: MR 79/2021**

## **TENDER DOCUMENT AND SPECIFICATIONS**

The Energy Fiji Limited invites sealed tenders from reputable companies with the relevant experience, for the supply of AP40 and AP65 base-course and screened 20mm crushed metal from a source that has the potential to successfully provide such materials with a proven history of performance on road use and backfilling of pole pit. The supplier will be selected to be a preferred supplier to EFL for a period of two (2) to three (3) years.

The Clay Index of the material must be based on AS/NZS 4402, of not greater than 5% Plasticity Index.

1. The Clay friction must
  - a. Be free of all organic, vegetable or other deleterious material.
  - b. Pass the 4.65mm sieve (AP65)
  - c. Pass the 4.40mm sieve (AP40)
  - d. Screened 20mm crushed metal
  - e. Be blended so the blended aggregate has a uniform texture with no segregation of fine and coarse material.
2. Laboratory 4 day soaked California Bearing Ratio (CBR) of greater than 50, un-surcharged or a crushing resistance of greater than 100kN in accordance with NZS 3111:1980.
3. The testing frequency shall be 1 test per 5,000m<sup>2</sup> of maintenance aggregate constructed.
4. The material must be approved by Fiji Roads Authority (*FRA*) and a copy of approval or certification is to be provided.

### **1) Extraction**

The quarry or pit shall be worked in such a way as to ensure that unsuitable material is not included in the material supplied.

For production of base course crushed rock, both the primary and secondary crushers shall be provided with scalping screens to ensure that any remaining overburden is removed from material supplied.

### **2) Source Rock**

Sedimentary source shall not be used for production of crushed rock base course material. Suitably sized Boulders extracted from Rivers shall be acceptable, provided the material meet or exceeds the specified requirements.

Igneous or metamorphic rock shall have a Los Angeles Abrasion Loss complying with the relevant requirements of the table 1.

If a source rock is to be used other than the type in the table 1, the relevant accredited testing authorities shall determine whether the rock type is acceptable and shall set appropriate limits.

Source rocks which do not comply with the specified requirements but from which crushed rock of satisfactory performance has been produced, may be accepted for use subject to the written approval from relevant testing authorities.



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## TECHNICAL SPECIFICATIONS FOR THE CRUSHED METAL

For natural gravels, sands and soft or ripped rock, the product grading prior to completion shall comply with the broad requirement shown in table below. Material supplied shall conform to these grading limits.

### 1) Maintenance Aggregate

Sieve Size (mm)	AP40 SUB Base (Aggregate Grading % Passing)
40	100
37.5	N/A
19	45-90
9.5	30-60
4.40	N/A
2.36	N/A
1.18	N/A
0.40	10 Max

Sieve Size (mm)	AP65 SUB Base (Aggregate Grading % Passing)
65	100
37.5	N/A
19	45-90
9.5	30-60
4.65	N/A
2.36	N/A
1.18	N/A
0.65	10 Max

Sieve Size (mm)	Screened 20mm Crushed Metal
20	100
37.5	N/A
19	N/A
9.5	N/A
4.40	N/A
2.36	N/A
1.18	N/A
0.40	N/A

For crushed rock, the product grading prior to compaction shall comply with the requirements shown in table above. The crushed rock shall not be graded from near the coarse limit on one sieve to near the fine limit on the following sieve or vice versa. At least 65% by mass of the aggregates in the product that are retained on the 6.50mm sieve shall have two or more faces produced by crushing.



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## 2) Standards Applicable for this Tender

The equipment shall be designed, manufactured and tested in accordance with the requirements for the following Standards.

STANDARD	TITLE
NZS 4402	Methods of testing soils for civil engineering purposes
NZS 3111	Methods of test for water and aggregate for concrete

**Note: Bidders shall demonstrate/submit proof of the product's compliance of the aforementioned standards. (Test Certificate)**

## 3) Manufacturer's Qualification

The manufacturer shall be ISO 9001-2000 certified and shall have sufficient supply and manufacturing experience of AP65, AP40 Base coarse and screened 20mm for at least ONE (1) year for the required work specifications. As proof, the manufacturer shall submit a supply-list indicating the grade of base coarse, quantity supplied, name of client and the year of delivery. Certificates from customers with satisfactory usage may be provided with the supply record. Only those Suppliers shall be considered, for which a minimum of 1-year manufacturing and successful service experience is available, without change of basic design of the plant and the material. Suppliers shall also be considered for whose material are suitable for carriageway trench backfilling purposes and such relevant detail to be provided.

## 4) Experience Evaluation

For evaluation of manufacturer's qualifications, the manufacturer must submit a reference list showing supply experience for supply of Base coarse. In addition, if any in-service failure due to the quality of the material has been experienced, the manufacturer should submit the information on the failures including the cause of the failures and the counter consequences taken.

## 5) Testing

The testing shall be performed by relevant accredited testing laboratories. The bidder shall comply with the following tests for Base Course.

- a) Particle Size Distribution
- b) Atterberg Limit
- c) Flakiness Index
- d) Crushing Resistance
- e) Los Angles Abrasion
- f) Maximum Dry Density
- g) California Bearing Ratio
- h) Wet and Dry Variation

It is mandatory for the bidder to submit the relevant test certificates together with the bidding documents.



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## 6) Unit Prices

Prices shall be quoted in Fijian Dollar Currency, inclusive of all taxes, customs, clearance charges, and duties payable in Fiji.

### AP65

Item	Description	Prices (FJD VIP)
1	AP65 per Cubic Meter ( $\$/m^3$ )	
2	Cartage of AP65 ( $\$/m^3/km$ )	

### AP40

Item	Description	Prices (FJD VIP)
1	AP40 per Cubic Meter ( $\$/m^3$ )	
2	Cartage of AP40 ( $\$/m^3/km$ )	

### Screened 20mm

Item	Description	Prices (FJD VIP)
1	Screened 20mm per Cubic Meter ( $\$/m^3$ )	
2	Cartage of Screened 20mm ( $\$/m^3/km$ )	

**Bidders to utilize the above table to submit prices. The bidder must supply the crushed metal at any required location by EFL within the Central Region.**

**Prices shall be valid for at least 90 calendar days, from the closing date of this tender.**



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**7) Trucking Information**

Item	Description	Quantity	
		Truck Number	Capacity (m <sup>3</sup> )
1	Number of Trucks that will be used in the supply		
2	Maximum base coarse Loading Capacity per Truck. Bidders shall give a list of trucks and their capacity if the truck capacity varies.	1.	
		2.	
		3.	
		4.	
		5.	
		6.	
3	Maximum quantity that the supplier can deliver in one day	1. AP65	
		2. AP40	
		3. Screened 20mm	

**8) Duration of Production and Delivery**

The EFL requires the commencement of delivery of the Base Coarse as required. Bidders shall clearly indicate the duration of production. The bidder if awarded the contract shall ensure that the Base Coarse is delivered within 48hours to the said EFL site.

**9) Payment Terms**

EFL's standard 30 days payment policy upon delivery of goods and services applies. Bidder's to explicitly note all exceptions and/or reservations to the same if any.



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## **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)**

9. Company Registration Number: \_\_\_\_\_

**(Attach copy of the Business License)**

10.FNPF Employer Registration Number: \_\_\_\_\_

11.Contact Person: \_\_\_\_\_

I declare that all the above information is correct.

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



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## **Tender Submission – Instruction to bidders**

**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. (1600hrs Fiji time) on Wednesday 14<sup>th</sup> April 2021**

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

**MR 79/2021**  
**PREFERRED SUPPLIER FOR SUPPLY OF AP40, AP65 BASE COURSE AND**  
**SCREENED 20mm CRUSHED METAL**

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) 9991587.**

**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)**