

**Country:** Sierra Leone  
**Project:** Power and Water Project  
**Sector:** Energy  
**Description:** Emergency Supply of 15 MW of Temporary Thermal Power  
**Issue Date:** 4 October 2007  
**Credit No.** 3945-SL  
**Project ID:** P087203  
**Bid Submission Deadline:** 31 October 2007

#### Invitation for Bids (IfB)

This invitation for bids follows the general procurement notice for this project that appeared in *UN Development Business* No. 629 of 7 April 2004.

The Government of Sierra Leone (GoSL) has received a Credit from the International Development Association (IDA) toward the cost of the Power and Water Project, and it intends to apply part of the proceeds to payments under the contract for the supply of 15 MW of emergency power (could be a combination of units with a continuous power supply of 15MW) to the Sierra Leone National Power Authority (NPA) for delivery to the Sierra Leone Western Area (Freetown).

The emergency supply required is on a temporary basis, for a 12 month period to begin no later than 20 December 2007 (43 days after the expected date for finalization of the contracts with the supplier, on 7 November 2007), with options thereafter for the continued use of the units. The supplier shall be responsible for the installation and commissioning of all required facilities, including (i) the power generation units; (ii) fuel tanks (the NPA understands that there are tanks for bulk storage currently available for rent in Freetown, but the supplier must make all necessary arrangements regarding such tanks); (iii) arrangements for transporting the fuel from the harbor/bulk storage facilities in Freetown; (iv) all electrical equipment needed for the delivery of power at the defined supply point, including transformers, switchgear, protection equipment, etc.; and (v) power supply metering equipment. The supplier shall also be responsible for all operation and maintenance activities and for securing all required fuel and lubricants including their delivery to the generation units. The GoSL will provide all necessary permits, and will make funds or credits available, in advance, from its own resources (not funded by the IDA), for the periodic purchase of fuel. A contract agreement in the form of a Power Purchase Agreement between the supplier and the NPA, supported by a Government Support Agreement (GSA) between the supplier and the GoSL, will be prescribed in the Bidding Package, in the English language, which will be available as of 10 October 2007 at no cost to bidders.

In advance of the Bidding Package, a Summary of Bidding Parameters has been prepared and is now available, and this document can be obtained, at no cost, by sending an e-mail request to the address shown below. Hard copies of the bidding documents may also be obtained from the address below.

Bidding will be conducted through an international competitive bidding procedure generally consistent with the procedures specified in the World Bank's Guidelines for Procurement under IBRD Loans and IDA Credits dated May 2004 (Procurement Guidelines), but subject to the certain special arrangements reflecting the emergency nature of this procurement. These special arrangements are more fully described in the Summary of Bidding Parameters.

The bidding process is open to all bidders from eligible source countries as defined in the Procurement Guidelines. However, only bidders who have supplied at least two contracts for emergency power of at least 15 MW to developing countries within the last four years will be considered as qualified to participate in this bid.

Sealed bids are to be delivered to the NPA, at the address shown below, by 1600 hours (local time) on Wednesday, 31 October, 2007, and any late bids will be rejected. All bids shall be accompanied by a bid security for an amount of US\$ 100,000 equivalent in the form to be specified in the bidding documents.

It is strongly recommended that interested bidders visit the proposed site assigned for the project and ensure that all relevant factors are taken into consideration in their bids. A pre-bid conference is scheduled for 19 October 2007 at the address provided below to provide clarifications on any relevant matters that would be raised by bidders.

As indicated, interested eligible bidders may immediately obtain the Summary of Bidding Parameters, at no cost, by sending an e-mail request to the e-mail address shown below. As of 1600 hours (local time) on 10 October 2007, interested bidders may also download the Bidding Package from any of the following websites:

Sierra Leone National Public Procurement Agency: [www.savepublicmoney.sl](http://www.savepublicmoney.sl)

Development Assistance Coordination Office (DACO): [www.daco-sl.org](http://www.daco-sl.org)

Sierra Leone Institutional Reform and Capacity Building Project (IRCBP): [www.ircbp.sl](http://www.ircbp.sl)

Address for Communications and Pre-bid conference

The National Power Authority  
Attn: Mr. Patrick Tarwalli  
Electricity House  
36 Siaka Stevens Street  
Freetown, Sierra Leone  
Tel: +232 22 228 681  
Mobile : + 232 76 612 184  
Fax: +232 22 224 067  
E-mail: [ptarawalli@msn.com](mailto:ptarawalli@msn.com)

# Summary of Bidding Parameters

## Emergency Supply of 15 MW of Temporary Thermal Power

**Country:** Sierra Leone

**Project:** Power and Water Project

**Sector:** Energy

**Description:** Emergency Supply of 15 MW of Temporary Thermal Power

**Issue Date:** 4 October 2007

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### Introduction

The Government of the Republic of Sierra Leone (GoSL) has received a credit from the International Development Association (IDA) for the Power and Water Project and, subject to the approval of the IDA, the GoSL intends to apply part of the proceeds of this project towards the cost of procuring 15 MW of temporary power supply for the National Power Authority (NPA), to deal with an emergency situation.

The emergency situation arises from the loss, at the end of August, of two aged NPA base load machines at the NPA's Kingtom Power Station in Freetown, namely a 9.2 MW Sulzer unit (due to alternator damage), and a 6.9 MW Mirrlees Blackstone unit (due to engine damage).

The NPA anticipates that alternative sources of supply will be available, on a long-term basis, by the end of 2008 or shortly thereafter. Accordingly, and as summarized below, the emergency supply contemplated herein is on a temporary basis, for a 12 month period **to begin no later than 20 December 2007**. However, the NPA shall have the right to extend the supply period, on the same terms and conditions, on the basis of a three month notice period for termination.

### Description of Required Supply

The NPA invites sealed bids from eligible bidders for 15 MW of continuous power, in accordance with the following parameters:

- **Power Supply:** 15 MW of continuous power at 11 kV and 50 Hz;
- **Duration:** 12 months, with the NPA having the right to extend the supply period, on the same terms and conditions, on the basis of a three month notice period for termination;
- **Commencement:** no later than **20 December 2007** ( i.e. 43 days after the expected date for finalization of the contracts with the supplier, on 7 November 2007, as noted below in the section entitled "Special Bidding Arrangements"), with penalties applying for any delays in commencement;
- **Location:** the NPA Kingtom Power Station in Freetown, Sierra Leone, on the basis that the NPA will make a suitable site available at the Kingtom Station, and the supplier shall be responsible for site preparation;
- **Facility Installation:** the supplier shall be responsible for the installation and commissioning of all required facilities, including (i) the power generation units; (ii) fuel tanks (the NPA understands that there are tanks for bulk storage currently available for rent in Freetown, but

- the supplier must make all necessary arrangements regarding such tanks); (iii) arrangements for transporting the fuel from the harbor/bulk storage facilities in Freetown; (iv) all electrical equipment needed for the delivery of power at the defined supply point, including transformers, switchgear, protection equipment, etc.; and (v) power supply metering equipment which will record kW, kWh, kVA and outage times and durations for the supplied power;
- **Fuel:** the supplier shall be responsible for securing all required fuel and ensuring the delivery of fuel to the generation units, on the basis that the GoSL will provide all necessary permits, and on the basis that the GoSL will make funds or credits available, in advance, from its own resources (not funded by the IDA), for the periodic purchase of fuel (as described below in the section entitled “bid Contents”);
  - **Operation and Maintenance:** the supplier shall be responsible for all operation and maintenance of the generation units and for the provision of spare parts as may be required;
  - **Consumables:** the supplier shall be responsible for the supply of all consumables such as lubricating oils and spares the plant and accessories;
  - **Personnel:** the supplier shall be responsible for providing and supervising all personnel required for the plant operation and maintenance and for their accommodation and other living expenses;
  - **Plant Access:** the supplier shall provide the NPA with all plant operational data, and provide access to the NPA to enable the NPA to monitor and audit the level of plant availability and other operational characteristics;
  - **Contractual Arrangements:** the supply of power will be pursuant to a Power Purchase Agreement (PPA) between the supplier and the NPA, supported by a Government Support Agreement (GSA) between the supplier and the GoSL, on the basis that the form of both the PPA and the GSA will be prescribed in the Bidding Package described below.

The NPA is preparing a complete Bidding Package, in English, which will be available to interested bidders as of 10 October 2007 at no cost. As of 1600 hours (local time) on that date, the Bidding Package may be downloaded from any of the following websites:

Sierra Leone National Public Procurement Agency: [www.savepublicmoney.sl](http://www.savepublicmoney.sl)  
Sierra Leone Development Assistance Coordination Office (DACO): [www.daco-sl.org](http://www.daco-sl.org)  
Sierra Leone Institutional Reform and Capacity Building Project (IRCBP): [www.ircbp.sl](http://www.ircbp.sl)

### Special Bidding Arrangements

Due to the emergency situation described, and the need to proceed with this procurement on an expedited basis, special bidding arrangements are being employed.

Bidding will be conducted through an international competitive bidding procedure generally consistent with the procedures specified in the World Bank’s Guidelines for Procurement under IBRD Loans and IDA Credits dated May 2004 (Procurement Guidelines), but subject to the following special arrangements (which will be more fully detailed in the Bidding Package):

- **Bid Deadline:** as indicated above, an accelerated time frame for submitting bids has been established, whereby sealed bids are to be delivered to the NPA, at the address shown below, by 1600 hours (local time) on Wednesday, 31 October, 2007 and any late bids will be rejected;
- **Opening of bids:** the sealed bids will be opened at 1600 hours (local time) on 31 October 2007, in the presence of the bidders’ representatives who choose to attend the opening, and the Projected Total Cost figure (as described below in the section entitled “bid Contents”) in each bid shall be announced ;
- **Finalization of the PPA and the GSA:** in accordance with the arrangements summarized below in the section entitled “Evaluation Procedures”, the NPA intends to announce the name of the preferred bidder, and the name of the next-most preferred bidder, at 1400 hours (local time) on Friday, 2 November 2007, and the NPA and GoSL will thereafter seek to finalize,

- respectively, the PPA and the GSA with the preferred bidder on or before Wednesday, 7 November 2007;
- **Failure to Reach Agreement with the Preferred Bidder:** if the NPA and GoSL are unable to finalize the PPA and GSA with the preferred bidder on or before 7 November 2007, the NPA, at its discretion, may commence discussions with the next-most preferred bidder;
  - **Bid Validity Period:** all bids are to be valid up to and including Friday, 30 November, 2007;
  - **Bid Documents:** the sealed bids must contain in one sealed envelope both (i) a Statement of Qualifications and Technical Bid; and (ii) a Financial Bid, as summarized below in the section entitled “Bid Contents”;
  - **Site Visits:** interested bidders who are unfamiliar with the current facilities of the NPA are strongly encouraged to undertake a site visit at their own cost, and the NPA will seek to facilitate such site visits, on the basis that such visits should be coordinated with the contact person specified below;
  - **Bidders Conference:** a bidders conference will be held at the NPA offices in Freetown at 1000 hours (local time) on Friday, 19 October 2007;
  - **Bid Security:** all bids must be accompanied by a bid security for an amount of US\$100,000 equivalent, in a form to be specified in the Bidding Package.

The bidding process is open to all bidders from eligible source countries as defined in the Procurement Guidelines.

### **Bid Contents**

Bids shall consist of two documents, a “Statement of Qualifications/Technical Bid” and a “Financial Bid”, in a form to be detailed in the Bidding Package. The following is a summary description of the contents of each of these two documents.

The Statement of Qualifications/Technical Bid shall provide the following information:

- **Prior Experience:** the document must identify at least two prior instances where the bidder has supplied emergency power plants, of at least 15 MW, to a developing country within the last four years;
- **References:** the document must provide full contact details of the purchaser of the power supplied in the prior instances cited;
- **Financial Capability:** the document must demonstrate the financial viability of the bidder, in accordance with the requirements detailed in the Bidding Package; and
- **Technical Bid:** the document shall provide a description of the generation plant to be installed, including number and ratings, as well as all other auxiliary equipment such as switchgear, transformers, fuel tanks and handling facilities etc. It shall also indicate the fuel type and grade that will be used.

The Financial Bid should be prepared on the basis that the NPA will pay (using funds provided by the IDA) for the mobilization and installation costs, demobilization and removal costs, monthly capacity charges and monthly energy charges, and on the basis that the GoSL will make funds or credits available, in advance, from its own resources (not funded by the IDA), for the periodic purchase of fuel (withdrawal of these funds will be treated as an advance payment against the fuel charge). The risks and benefits of fuel price variations from the reference base price will also be borne by GoSL on the basis of a fuel price adjustment formula detailed below. Further, the Financial Bid should be prepared on the basis that the NPA and the GoSL will offer payment and asset securities, in accordance with normal commercial practices for transactions of this type, as will be detailed in the Bidding Package. On these bases, the Financial Bid shall provide the following information:

- **Mobilization and Installation Costs:** these costs should be expressed in US\$ and should include all transportation and other incidental costs;
- **Demobilization and Removal Costs:** again, these costs should be expressed in US\$ and should include all transportation and incidental costs;

- **Capacity Charge:** expressed in US\$/available kW, for the full 15 MW. This charge shall cover debt servicing, return on equity, fixed O&M costs; insurance, administration costs etc;
- **Energy Charge (exclusive of fuel charges):** expressed in US\$/kWh, for the full 15 MW; This charge shall cover the variable O&M costs inclusive of lubricants, servicing of plant etc;
- **Fuel Charge computation:** expressed in US\$/kWh, using the following formula:

$$FC = (FPRICE_{REF} + FLOGIS) * FUELCONS_{AMB}$$

where

**FPrice<sub>Ref</sub>:** The reference fuel price, in US\$/liter, pursuant to the published Mean of Platts per liter for 15 October 2007. State product, market and date

**FLogis:** The Fuel Logistics, to be charged by the supplier for securing the fuel and ensuring its delivery to the generation units, in US\$/liter.

**FuelCons<sub>Amb</sub>:** The Ambient Specific Fuel Consumption rate for the supplier's units, in liters per kWh. This rate shall remain constant throughout the contract period.

All of the above costs shall not include any import duties or taxes payable to the GoSL.

Monthly payments will be made on the basis of the above charges subject to the price adjustment for the Fuel Charge based on the movement of the Mean of Platts on the 15<sup>th</sup> day of that month. No adjustment will be allowed for any variation in fuel consumption (FuelCons<sub>Amb</sub>) either on the basis of time or the plant power output.

The above charges will be computed for a 12 month period using the table format set out in Appendix A to this document, so as to yield a Projected Total Cost over one year of operations.

### Evaluation Procedures

The technical bid shall demonstrate capability of meeting the required power supply. The Financial Bids shall be evaluated based on a comparison of the Projected Total Cost over one year of operation, as set out in the table format attached as Appendix A, consisting of the mobilization and installation costs, demobilization and removal costs and 12 monthly capacity charges; plus 12 months of energy charges and 12 months of base fuel charge, both at an assumed plant load factor of 100%. Further details on bid evaluation procedure and formula will be specified in the Bidding Package. After determining the lowest evaluated bidder, post-qualification assessment based on the criteria set in the Bidding Package shall be carried out on the lowest evaluated bidder bid. If the lowest evaluated bidder is assessed to be not qualified, the assessment procedure shall be applied on the second lowest evaluated bidder etc... as detailed in the bidding documents.

### Submission of Bids

Sealed bids, clearly marked "NPA Emergency Power Supply" must be delivered, at the sender's risk, to the National Power Authority at the address indicated below, to reach the NPA by 1600 hours (local time) on Wednesday, 31 October 2007.

### Additional Information

Interested bidders seeking additional information may request such information by means of an e-mail to Mr. Patrick Tarawalli of the NPA at the e-mail address shown below. All such questions, and the written responses thereto, will be available on request to any interested bidder; and copies of all such questions, and the written responses thereto, will be distributed at the bidders conference on 19 October 2007.

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Contact:  
The National Power Authority  
Attn: Mr. Patrick Tarawalli  
Electricity House  
36 Siaka Stevens Street  
Freetown, Sierra Leone  
Tel: +232 22 228 681  
Mobile : + 232 76 612 184  
Fax: +232 22 224 067  
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## APPENDIX A: FINANCIAL BID TABLE

PARAMETER	UNIT	BID PRICE	QUANTITY (over one year)	TOTAL COSTS (in US\$, over one year)
Mobilization and Installation Costs	Lot		1	
Demobilization and Removal Costs	Lot		1	
Capacity Charge	US\$/kW/month		15,000 x 12	
Energy Charge	US\$/kWh		15,000 x 8760	
Fuel Charge (FC)	US\$/kWh		15,000 x 8760	
Projected Total Cost (over one year)	----	----	----	

**Fuel Charge computation:** expressed in US\$/kWh, using the following formula:

$$FC = (FPRICE_{REF} + FLOGIS) * FUELCONS_{AMB}$$

where

**FPrice<sub>Ref</sub>** : The reference fuel price, in US\$/liter, pursuant to the published Mean of Platts per liter for 15 October 2007. State product, market and date

**FLogis**: The Fuel Logistics, to be charged by the supplier for securing the fuel and ensuring its delivery to the generation units, in US\$/liter.

**FuelCons<sub>Amb</sub>**: The Ambient Specific Fuel Consumption rate for the supplier's units, in liters per kWh. This rate shall remain constant throughout the contract period.

Notes:

1. Bidders should complete the columns labeled "Bid Price" and "Total Costs".
1. Total Costs are computed on the basis of 12 month operation at 100% plant factor at the contract power capacity of 15 MW.
2. Bid Prices should not include any import duties or taxes payable to the GoSL.