

REPUBLIC OF BOTSWANA



MINISTRY OF MINERALS, ENERGY AND WATER RESOURCES

REQUEST FOR EXPRESSION OF INTEREST (EOI) TO CONSTRUCT, OPERATE, MAINTAIN AND DECOMMISSION AT THE END OF ITS ECONOMIC LIFE, A SCALABLE SOLAR POWER PLANT TO MEET ELECTRICITY DEMANDS FOR JWANENG, MINES IN THE NORTH WEST REGION AND SURROUNDING AREAS, OR ANY OTHER AREAS IN BOTSWANA

REFERENCE NO. : PR 10/1/3/14(VI)

June 2015

PROCURING DEPARTMENT	AGENT
Department of Energy PRIVATE BAG 00378 GABORONE BOTSWANA Tel: (+267) 3640200 Fax: (+267) 3914201.	Mr H.S. Ntsowe P/Bag 00378 Gaborone Phone: +267 3640200 or e-mail: sntsowe@gov.bw

Republic of Botswana

EOI

REQUEST FOR EXPRESSION OF INTEREST TO CONSTRUCT, OPERATE, MAINTAIN AND DECOMMISSION AT THE END OF ITS ECONOMIC LIFE, A SCALABLE SOLAR POWER PLANT TO MEET ELECTRICITY DEMANDS FOR JWANENG, MINES IN THE NORTH WEST REGION AND SURROUNDING AREAS, OR ANY OTHER AREAS IN BOTSWANA

EOI

EOI PROCEDURES

T1.1 EOI Notice and Invitation to EOI

T1.2 EOI Data

REPUBLIC OF BOTSWANA

EOI
EOI PROCEDURES

**EOI NOTICE and INVITATION TO
AN EOI**

EOI Ref No: PR 10/1/3/14(VI)

REQUEST FOR EXPRESSION OF INTEREST TO CONSTRUCT, OPERATE, MAINTAIN AND DECOMMISSION AT THE END OF ITS ECONOMIC LIFE, A SCALABLE SOLAR POWER PLANT TO MEET ELECTRICITY DEMANDS FOR JWANENG, MINES IN THE NORTH WEST REGION AND SURROUNDING AREAS, OR ANY OTHER AREAS IN BOTSWANA	
•	Interested parties are invited to submit an Expression of Interest to construct, operate, maintain and decommission a scalable solar Power plant to meet electricity demand for the mines and nearby villages in north west of Botswana.
•	The Procuring Department is: Department of Energy PRIVATE BAG 0037 GABORONE BOTSWANA Tel: (+267) 3640200 Fax: (+267) 3914201.
•	THIS IS AN EXPRESSION OF INTEREST ONLY. This is issued solely for information and planning purposes – it does not constitute a Request for Proposal (RFP) or a promise to issue an RFP in the future. The request for information does not commit the Government to contract for supply or service whatsoever. Further, the Government of Botswana is not at this time seeking proposals and is not accepting unsolicited proposals. Respondents are advised that the Government of Botswana is not paying for any information or administrative costs incurred in the response to the EOI; all costs associated with responding to this Expression of Interest are solely at the interested party's expense.
•	The physical address for collection of EOI documents is: Department of Energy Plot 169 , Queens Road Shri Ram House, 2 nd floor Office No. 8 Gaborone. Documents may be collected between 0730 hours to 1245 and 1345hours to 1630hours during working hours from 6 th July 2015
•	Queries relating to the issue of these documents may be addressed to Mr. H.S. Ntsowe, Tel.: (+267) +267 3640200, E-mail: sntsowe@gov.bw
•	The closing time for receipt of EOI is 1000 hours on 19 August 2015, following which EOIs will be opened in the presence of interested parties wishing to attend. Late EOI submission will not be accepted
•	Telegraphic, telephonic, telex, facsimile or e-mail EOI submission will not be accepted
•	One (1) original plus four (4) copies and one (1) digital copy in CD are to be submitted in plain sealed envelope clearly marked:

	REQUEST FOR EXPRESSION OF INTEREST TO CONSTRUCT, OPERATE, MAINTAIN AND DECOMMISSION AT THE END OF ITS ECONOMIC LIFE, A SCALABLE SOLAR POWER PLANT TO MEET ELECTRICITY DEMANDS FOR JWANENG, MINES IN THE NORTH WEST REGION AND SURROUNDING AREAS, OR ANY OTHER AREAS IN BOTSWANA	
•	<p>and shall be delivered to:</p> <p>Physical Address:</p> <p>The Board Secretary Public Procurement & Asset Disposal Board (PPADB) Tender Reception (Ground Floor), Plot 8913, Maakgadigau Road, Gaborone Republic of Botswana</p>	<p>Postal Address:</p> <p>The Board Secretary, PPADB Private Bag- 0058 Gaborone Republic of Botswana</p>

The Public Procurement and Asset Disposal Board's Standardised Conditions of EOI apply to this procurement, for which all the applicable EOI Data is contained in the EOI documents.

Notwithstanding anything in the foregoing, the Government of Botswana is not bound to accept the lowest or any EOI submission.

M. B. Ramodimoosi

Board Secretary

REPUBLIC OF BOTSWANA

EOI EOIPROCEDURES	EOI DATA
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REQUEST FOR EXPRESSION OF INTEREST TO CONSTRUCT, OPERATE, MAINTAIN AND DECOMMISSION AT THE END OF ITS ECONOMIC LIFE, A SCALABLE SOLAR POWER PLANT TO MEET ELECTRICITY DEMANDS FOR JWANENG, MINES IN THE NORTH WEST REGION AND SURROUNDING AREAS, OR ANY OTHER AREAS IN BOTSWANA

The Standardised Conditions of EOI make several references to the EOI Data for details that apply specifically to this tender. The EOI Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standardised Conditions of Tender.

Each item of data given below is cross-referenced to the clause in the Standardised Conditions of EOI to which it mainly applies. There are many other clauses in which the data is required.

1.1 The Procuring Department is

**DEPARTMENT OF ENERGY
PRIVATE BAG 00378
GABORONE
BOTSWANA
Tel: (+267) 3640200 Fax: (+267) 3914201**

1.2 The EOI documents issued by the Procuring Department comprise:

VOLUME 1: EOI PROCEDURES
1.1 EOI Notice & Invitation to EOI
1.2 EOI Data
1.3 EOI Schedules
EOI SECTION
Scope of Work
Letter of Response

1.6 The Procuring Department's agent is:

Mr. H.S. Ntsowe
Department of Energy
Tel +267 3640200
E-mail: sntsowe@gov.bw

2.1 The eligibility criteria for the EOI are:

1. Document of Formation of the Consortium – where applicable, EOI submitted by a consortium of two or more companies must be accompanied by the document of formation of the Consortium and authenticated by a Notary Public. The document of formation will define precisely the conditions under which the Consortium will function, its period of duration, the persons authorised to represent and obligate it, the address for correspondence, and the participation of the several companies joining the Consortium.

2.20 Parts of each EOI communicated on paper shall be submitted as an one (1) original, plus four (4) copies and in electronic form on one (1) CD. An English translation of any documentation in a language other than English must be provided.

2.22 The Procuring Department's address for delivery of the EOI and identification details to be shown on each EOI package are:

Physical Address:
The Board Secretary
Public Procurement & Asset Disposal
Board (PPADB)
Tender Reception (Ground Floor),
Plot 8913, Maakgadigau Road,
Old Customs and Excise Building,
Gaborone
Republic of Botswana

Postal Address
The Board Secretary
PPADB
Private Bag - 0058
Gaborone
Republic of Botswana

REQUEST FOR EXPRESSION OF INTEREST TO CONSTRUCT, OPERATE, MAINTAIN AND DECOMMISSION AT THE END OF ITS ECONOMIC LIFE, A SCALABLE SOLAR POWER PLANT TO MEET ELECTRICITY DEMANDS FOR JWANENG, MINES IN THE NORTH WEST REGION AND SURROUNDING AREAS, OR ANY OTHER AREAS IN BOTSWANA

EOI NO. PR. (10/1/3/14(VI))

2.23 A ONE-envelope procedure will be followed.

Interested parties should respond with; **ONE (1) ORIGINAL, FOUR (4) COPIES AND ONE (1) ELECTRONIC COPY ON CD**

The original document should be clearly marked that it is an original.

The EOI must be contained in a single envelope clearly marked the EOI number and project description.

REQUEST FOR EXPRESSION OF INTEREST TO CONSTRUCT, OPERATE, MAINTAIN AND DECOMMISSION AT THE END OF ITS ECONOMIC LIFE, A SCALABLE SOLAR POWER PLANT TO MEET ELECTRICITY DEMANDS FOR JWANENG, MINES IN THE NORTH WEST REGION AND SURROUNDING AREAS, OR ANY OTHER AREAS IN BOTSWANA

EOI NO. PR. /1/3/14(VI)

GENERAL GUIDELINES FOR PREPARATION OF PROPOSALS ISSUED TO POTENTIAL SUPPLIERS TO CONSTRUCT, OPERATE, MAINTAIN AND DECOMMISSION AT THE END OF ITS ECONOMIC LIFE, A SCALABLE SOLAR POWER PLANT TO MEET ELECTRICITY DEMANDS FOR JWANENG, MINES IN THE NORTH WEST REGION AND SORROUNDING AREAS, OR ANY OTHER AREAS IN BOTSWANA

Below is a list of information the Respondent is invited to provide in full.

1. General Information

- a. Proof of Incorporation
- b. Name and Details of entity to provide Parent Company Guarantee
- c. Name and title of primary contact
- d. Mailing address
- e. Contact email
- f. Contact Phone Numbers

2. Specific Information

Preliminary

a. Concept	Indicator	Measure
	PPA Duration	
	CO ₂ Avoided	
	IPP Lincence duration	
Environmental	Damage	
	Visual Impacts	

Table 1

3. Specific Project Development Information

- a. Indicate experience in similar projects successfully completed in Solar Power Generation including but not limited to power evacuation and system integration. Indicate the plant size(s) of the plant in MW
- b. Readiness of Data, e.g. relevant studies completed and/or draft.
- c. Plan for conducting Environmental Impact Assessment (EIA).
- d. If agreements with third parties are applicable please indicate these requirements and future plans to conclude on those.
- e. Expected months to complete construction broken up into development phases.
- f. Provide shareholding and financial structures and value add to the economy
- g. Provide a programme and timetable indicating expected energy into grid after signature of PPA.

2.26 The closing time for submission of EOI submission is:
1000 hours on 19 August 2015

2.27 Telephonic, telegraphic, telex, facsimile or emailed EOI submission will **not** be accepted.

3.4 The time and location for opening of the EOI is:

Time 10:00 hours on 19 August 2015.

Location:

Physical Address:

The Board Secretary
Public Procurement & Asset Disposal Board (PPADB)
Tender Reception (Ground Floor),
Plot 8913, Maakgadigau Road,
Old Customs and Excise Building,
Gaborone
Republic of Botswana

Republic of Botswana



AN EOI FOR

REQUEST FOR EXPRESSION OF INTEREST TO CONSTRUCT, OPERATE, MAINTAIN AND DECOMMISSION AT THE END OF ITS ECONOMIC LIFE, A SCALABLE SOLAR POWER PLANT TO MEET ELECTRICITY DEMANDS FOR JWANENG, MINES IN THE NORTH WEST REGION AND SURROUNDING AREAS, OR ANY OTHER AREAS IN BOTSWANA

EOI

PART 1: LETTER OF RESPONSE

PART 3: SCOPE OF WORK

C3 Scope of Work

Republic of Botswana

EOI PART 1
EOI DATA

EOI LETTER OF RESPONSE

Letter of Response

Respondent Letterhead

Permanent Secretary

Ministry of Minerals, Energy and Water Resources
 Private Bag 0018
 Gaborone
 Botswana

Dear Sir

REQUEST FOR EXPRESSION OF INTEREST TO CONSTRUCT, OPERATE, MAINTAIN AND DECOMMISSION AT THE END OF ITS ECONOMIC LIFE, A SCALABLE SOLAR POWER PLANT TO MEET ELECTRICITY DEMANDS FOR JWANENG, MINES IN THE NORTH WEST REGION AND SURROUNDING AREAS, OR ANY OTHER AREAS IN BOTSWANA

We, the undersigned, offer the following information in response to the EOI sought by the Ministry of Minerals, Energy and Water Resources (MMEWR) in relation to the intended procurement of the coal project.

- a) We are duly authorized to represent and act on behalf of [*respondent name*] (herein after the "Respondent").
- b) We have examined and have no reservations to the EOI Information Document ("the EOI Information document") contemplating the background information of the project as provided to us by MMEWR [including Addendums].
- c) We are attaching with this letter and response forms, copies of documents defining:-
 - i. The Respondent's legal status
 - ii. Its principal place of business
 - iii. Its place of incorporation (if Respondents are corporations); or its place of registration
 - iv. Financial statements of the last 3 (three) financials years, clearly indicating the financial turn-over and net worth if applicable)
- d) We shall assist the Ministry of Minerals, Energy and Water Resources and/ or its authorized representatives to obtain further clarification from us, if needed.
- e) MMEWR and/ or its authorized representatives may contact the following persons for further information on any aspects pertaining to this response: full name, office telephone number, cellular number and email address.
- f) This response is made in the full understanding that:
 - i. Information furnished in response to the EOI shall be used confidentially by the Ministry for purposes of development of IPP procurement programme;
 - ii. We confirm that we have no grounds for any claim whatsoever against the Ministry and neither is the Ministry liable to us on any grounds whatsoever as a result of our participation in this EOI; and
 - iii. We confirm that we are interested in participating in the **REQUEST FOR EXPRESSION OF INTEREST TO CONSTRUCT, OPERATE, MAINTAIN AND DECOMMISSION AT THE**

END OF ITS ECONOMIC LIFE, A SCALABLE SOLAR POWER PLANT TO MEET ELECTRICITY DEMANDS FOR JWANENG, MINES IN THE NORTH WEST REGION AND SURROUNDING AREAS, OR ANY OTHER AREAS IN BOTSWANA as per the details provided in the response form Scope of Work.

- g) We acknowledge that the information contained in the EOI information document is not exhaustive and we confirm that we have made such further enquiries deemed necessary to submit this EOI response and we do not rely solely on the information provided in the EOI Information Document in submitting this response.

The undersigned declares that the statements made and the information provided in the duly completed application is complete, true, and correct in every detail.

NAME:.....

In the Capacity:.....

Signed:.....

Duly authorized to sign in the response for and on behalf of

Date: [day/Month/Year]

Regards.

Republic of Botswana

SCOPE OF WORK:

1.0 Employer's objectives

1.1 Background

1.1.1 Botswana is a member of Southern African Power Pool (SAPP). Southern African region is experiencing shortage of electricity due to shortage of generation and interconnecting systems among the member states. These challenges are negatively impacting the wheeling process and meeting the power demands among the member states.

1.1.2 Upon completion of 600MW Morupule B coal based thermal power plant, Botswana will generate 80% of its electricity needs. The rest comes from neighbouring countries through SAPP. The 132MW Morupule A coal based plant is being refurbished. The Supply-demand mismatch has forced the Government of Botswana to supplement electricity generation with two power peaking plants. These plants comprise of a 90MW dual fuel (Diesel and Gas) at Orapa and 70MW Diesel Power at Matshelagabedi. Prospect for extractions of Coal Bed Methane which can be used at the 90MW Orapa Power plant have not been concluded.

1.1.3 Despite the dependence in fossil resources, the Government of Botswana recognizes that the country is endowed with significant renewable energy potential, especially solar energy. Increased utilization of Renewable Energy (RE) will enable Botswana to mitigate the rising power demand, reduce dependency on power imports, diversify the generation and energy supply portfolios, mitigate climate change and increase access to reliable, clean energy to alleviate poverty as well as stimulate and drive economic development.

1.1.4 The overall energy policy goal is to provide affordable, reliable and adequate supplies of energy for socio-economic development and to utilize energy resources in a sustainable manner. Botswana has ratified the Kyoto Protocol and therefore committed to reduce its carbon emissions which are mainly caused by use of coal fired power plants to generate electricity. Several studies and projects had been undertaken in an effort to determine the feasibility of generating electricity through solar.

Some major areas outside the north –south corridor do not have national grid access and therefore supplied through power supply agreements with neighbouring countries such as Zimbabwe (Pandamatenga), Zambia, Namibia (Gumare, Shakawe & Ghanzi) and South Africa (Tsabong). Due to various constraints from these cross border supplies, additional load can no longer be connected on the above networks. This is in the wake of the continued load growth such as the connection of new villages and settlements as well as new mining loads.

A bankable Feasibility Study was completed in 2013 which recommended a 100MW Concentrating Solar Thermal Power plant to be constructed at location identified in Jwaneng. Besides the BFS, the areas in the North West were not covered by the study, yet there are mining activities in the area which requires electricity. These new mining developments are at Discovery Mines Limited (DML) near Toteng with estimated demand of 21 MW and the proposed Khoemacau Copper mine near DML with estimated demand of 22 MW as well as additional demand for villages in North West region and Jwaneng and surrounding areas with estimated demand of 45 MW

1.2 The Project

1.2.1 Based on the above, MMEWR, through the Department of Energy, is calling for Expression of Interest from potential developers for construction, operation, maintenance and decommissioning at the end of its economic life, a scalable solar power plant to meet electricity demand for the mines and possibly some villages in North West of Botswana. Specifically the request will be for the provision of power through satellite solar plants targeting the mines that are being developed in and around the North West region of Botswana. Should there be excess power from the proposed plants then nearby villages and settlements will benefit. Interested parties should advise and amongst others on the

following;

- a. Economic and financial indicators
 - i. Project bankability and profitability indicators
 - ii. The most appropriate financing strategy
 - iii. The most appropriate implementation strategy for the project.
- b. System technical performance indicators
 - i. Basic conceptual design covering efficiency and durability over the project life time.
 - ii. Potential specific location taking into account connectivity to the grid.
 - iii. Operation and maintenance programme.
 - iv. Strategy for decommissioning of the plant

2. Specific Purpose

2.1 The specific objectives of the EOI are to:

- To establish the potential and strategy for implementation of a scalable solar power plant(s) where applicable,
- To establish the economic and financial viability of a scalable solar power plant(s), and
- To establish the potential of developers to deliver a scalable solar power plant(s).

2.2 A decision on the detail and timing of the Prequalification and RFP will depend to a great extent on the information provided in response to this EOI.

3. Extent of the Services

The Ministry invites responses to the EOI to Construct, Operate, Maintain and Decommission at the end of its economic life, a scalable solar power plant(s) to be developed in North West Botswana.

Submissions from potential developers should also indicate the ability to raise funds from financial institutions (including but not limited to providers of debt and equity financing, export credit agencies, development finance institutions); as well as indicate the technology, equipment suppliers and an indicative selling price (BWP/kWh) to the proposed project.

1. The EOI should cover information as prescribed in the EOI data. Any part of the EOI data which is not applicable to the Respondent should be clearly indicated as "Not Applicable". The EOI should be signed by an authorized signatory

5. The language of submission of the document shall be English

6. All costs incurred by Respondents in connection with the EOI shall be borne by the respective Respondents themselves.

7. The complete EOI must be returned by post or hand delivered to the addresses below:

PPADB Reception (Ground Floor)
 Plot 25019, Maakgadigau Way, Gaborone West Industrial
 Public Procurement and Asset Disposal Board (PPADB)
 Private Bag 0058
 Gaborone
 Botswana

8. The Ministry reserves the right to cross check and confirm the information / details furnished by the Respondent in its response.

9. All the information supplied by the respondents will be kept as strictly confidential by the Ministry and will not be shared with any other third party.

10. Based on the nature, number and content of responses, the Ministry will pursue next steps, which may include establishing a formal competitive process i.e. a Pre-qualification process or otherwise as determined by the Ministry following procurement legislation.

11. The Ministry reserves the right to use the information received from respondents for further development of other initiatives. The mere fact of responding to the EoI, however, shall not confer any rights on a respondent to the preferential treatment at any subsequent bid/ development stage of the initiative.

12.

- a. The Ministry may, at its sole discretion, before the last date for submission of the EoI, modify this information document by issuing an addendum thereto. The Ministry is requesting potential Respondents therefore to visit the website (www.mmewr.gov.bw) on regular basis for possible update of the EOI.
- b. The Ministry may extend the last date of submission of EOI responses to allow Respondents reasonable time to consider any amendment to this information document and to amend its EOI submissions in the case of such an amendment.
- c. The Ministry will shortlist (pre-qualify) companies after the evaluation of a Prequalification Tender, whose issuance will depend upon the information received from the EOI process.
- d. Interested companies may obtain further information from the Project Manager, on mail address: sntsowe@gov.bw; Phone: +267 3640200 during office hours [07:30 to 16:30 hours Monday to Friday].

13. Format of communications

Reports are to be typed in standard "*Times New Roman or Arial*" 12.