



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA



CLARIFICATION MEETING PRESENTATION

EOI NOTICE NO: DWS27-0323WTE

EXPRESSION OF INTEREST (EOI) FOR THE SELECTION OF AN INDEPENDENT POWER PRODUCER (IPP) FOR ENERGY AUGMENTATION AT A SELECTED GOVERNMENT WATERWORKS INFRASTRUCTURE FOR A 20-YEARS OPERATIONAL PERIOD IN DESIGN-BUILD-FINANCE OPERATE (DBFO) MODE

Presented by: Mr Archinton Thobejane and Ms Nomfanelo Khanyi

Date: 30 March 2023

Agenda

- Opening and welcome
 - Introductions and signing of the attendance register
1. Purpose of the bid
 2. Background of the project
 3. Contents of the bid document/ Technical aspects
 4. Presentation of selected project sites by Operation Clusters
 5. Submission of Bid Proposals
 6. Question and Answers
 7. Closure

1. Purpose of the bid

- The Department's main objective through this EOI process:
 - Is to engage Bidders/ Companies/Developers in a transparent process to generate relevant and useful information on renewable energy
 - to enable the department to assess aspects of potential renewable energy projects at selected government waterworks infrastructure
 - And to also assist in the selection of renewable energy developers for the development of potential types of renewable energy plants and the Operation and Maintenance of the same.

2. Background of the project..1/3

- The government of South Africa has launched the National Development Plan setting a target of 20 000 MW of new-build generation capacity from renewable sources by 2030. This is half of the overall new-build capacity target.
- The Green Energy Strategic Infrastructure Project aims to deliver a third of this (6.9 GW) through independent power producers.
- The introduction of renewable energy as an alternative source of energy can contribute not only to Strategic Infrastructure Projects but also to electricity generation in remote areas.
- His Excellence President Cyril Ramaphosa on 25 July 2022 in His address to the nation announced what he called an 'energy action plan' to tackle South Africa's power crisis.

2. Background of the project..2/3

- The President announced five actions as well as “additional measures to achieve long-term energy security and end load shedding for good”.
- Among other interventions are
 - to accelerate the procurement of new generation capacity and massively increase private investment in generation capacity by:
 - removing the licensing threshold for embedded generation completely and tabling special legislation in Parliament on an expedited basis” to address the legal and regulatory obstacles to new generation capacity for a limited period;
 - waiving or streamlining certain regulatory requirements “where it is possible to do so within existing legislation”, which could include reducing the regulatory requirements for solar projects in “areas of low and medium environmental sensitivity”.

2. Background of the project^{..3/3}

- The Department as the custodian of South Africa's water resources, the mandate is to ensure that the resources are protected, used, developed, conserved, managed and controlled in a manner that seeks to achieve sustainability, transformation and socio-economic development
- South Africa has the potential to develop renewable energy at existing DWS infrastructure such as dams, barrages, weirs, irrigation systems (canals & conduits) as well as run-off river schemes”.
- Instead of dams being constructed for the purpose of water supply, existing dams' water bodies that are used for other purposes can be fitted with floating solar power plants and conduit pipes that can be fitted with turbines in order to augment the electricity supply.

3. Contents of the bid document/ Technical aspects..1/6

- DWS shall invite bids from prospective Independent Power Producers (IPPs) who are willing to set up a grid-connected/stand-alone floating or ground-mounted solar /wind/ conduit hydropower power plant on selected departmental dams/government waterworks infrastructure.
- DWS will approve the water use license application and grant access under stipulated conditions for the required water surface area/land at all the dams sites/government waterworks infrastructure for the installation.
- The scope of the IPPs will include the construction of a grid-connected/stand-alone wind/solar power plant on the state land/water surface available on selected government waterworks for construction, operation, maintenance and distribution of generated power and its transmission arrangement up to the nearest substation or DWS infrastructure.
- DWS would be the primary energy off-taker and where there is a surplus of energy the IPP must have secondary users/off-takers

3. Contents of the bid document/ Technical aspects..2/6

- DWS will advertise a Request of Proposal (RFP) in the next few months along with necessary schedules for the purpose of inviting the technical and financial bids to implement the Projects.
- The respondents will be asked to submit their concept note and feasibility report along with the following:
 - Technical and financial feasibility of the concept
 - Respondent's technical and financial capability
 - Local Community Empowerment Strategy

3. Contents of the bid document/ Technical aspects..3/6

ANNEXURE – B: DETAILS OF THE RESPONDENT

Details of the Respondent (In case of Consortium name the companies constituting the consortium and each member company to furnish a separate information sheet)

Index Number	Parameter	Details
1	Name and address of the Organisation Organisation Registration no. SARS Registration no.	
2	Country of incorporation	
3	Status of the Organisation: a) Whether registered under the Companies Act 2008 b) If not, the Country of Incorporation	
4	Past Experience as an Independent Power Producer: a) Total cumulative floating solar PV project (MW)(if any) enclose as per Format-B2 b) Total cumulative ground-mounted solar PV project (MW)(if any) enclose as per Format-B2 c) Total cumulative wind project capacity (MW) (if any) enclose as per Format-B2 d) Total cumulative conduit hydropower project capacity (MW) (if any) enclose as per Format-B2	
5	Indicative Cost (R / MW) a) Wind/PV Modules b) Inverters c) Balance of Plant Equipment d) Ground/Floating/Wind Platforms e) Conduit turbines f) Civil & Structure g) Other Electrical Equipment including transformers, cables etc. up to interconnection	
6	Water Body/Land Area Requirement (m ² / MW)	
7	Indicative PPA tariff (R /kWh)**	

3. Contents of the bid document/ Technical aspects..4/6

ANNEXURE – B1: SUGGESTIONS

Any suggestions regarding Project / Bidding Parameters (you are requested to enclose separate sheets):

- a) Project Size (Min. & Max.)
- b) Time required for commissioning of Project
- c) Details of the technologies could be considered for the conduit hydropower, wind and floating/grounded solar power plants
- d) Operation and Maintenance requirements to be considered for a 5-year operational period

3. Contents of the bid document/ Technical aspects..5/6

Annexure – B2: Past Experience Details of the Respondent

Provide details of similar assignments undertaken in the last 10 years for the establishment of large scale viz 5 to 100 MW and above ground-mounted and floating solar PV, conduit hydropower and wind power plants in South Africa and abroad

We hereby declare that the above information is true and that providing such information details is not in violation of any of the Agreements to the best of my knowledge.

Signature:

Name:

Designation:

(Authorised Signatory)

Index Number	Project Capacity (MW)	Location (District, State/Province, Country)	Ground-mounted/Floating/wind/solar Platform Technology	Status of Construction (Commissioned/Under Construction)	Operational/Commissioned since (year)	Power Sale Arrangements (Captive/PPA)	PPA Tariff (R/kWh)	Annual Average CUF (%)

3. Contents of the bid document/ Technical aspects..6/6

The table below are the potential site details, where DWS intends to procure new electricity generation capacity from IPP to reduce the ongoing and increasing cost of energy and the reliance on electricity from the grid.

Index Number	Government Waterworks Infrastructure	Operation Cluster	NOTIFIED MAXIMUM DEMAND (NMD) in MVA	GPS Coordinates	
				Latitude (S)	Longitude (E)
1	Mokolo Pump Station	Northern	4.74	23.975177	27.721435
2	Tswasa Pump Station	Northern	1.0	24.735829	26.417561
3	Grootfontein (Molopo) Pump Station	Northern	0.35	25.921366	25.863092
4	Nandoni Pump Station	Northern	4.0	22.972510	30.599826
5	Steelpoort Pump Station	Northern	16.0	24.894498	30.006927
6	Scheiding Pump Station	Central	10.0	29.902837	24.701852
7	Teenfontein	Central	3.65	29.783946	26.910288
8	Nottingham	Central	7.2	29.161031	23.697609
9	Zaaihoek	Central	7.0	27.433611	30.075000
10	VRESAP	Central	28.85	26.877425	28.252023
11	Jericho	Central	15.0	26.489167	30.483889
12	Naaupoort Grootfontein	Central	2.5 6.0	25.928059 26.679122	29.307170 29.280935
13	KWASAP / Rietfontein	Central	3.2	26.356528	29.214116
14	Grootdraai and Tutuka	Central	9.7	26.916890	29.295545
15	Geelhoutboom	Central	18.3	26.919722	30.329444
16	Heyshope	Central	10.0	26.994722	30.524722
17	Spring Grove Pump Station	Eastern	1.0	29.319389	29.966528
18	Lavumisa Pump Station	Eastern	0.6	27.354372	31.884592
19	Dasbos Pump Station	Southern	9.0	33.907306	19.054000

Please Note the Correction and changes:
 #8. NMD is 7.2 MVA not 7.4 MVA
 #12. Naaupoort Station is replaced with Grootfontein Station

4. Presentation of selected project sites by Operation Clusters

- Eastern and Southern Operation Cluster
- Central Operation Cluster
- Northern Operation Cluster

5. Submission of Bid Proposals

- ▶ The **original** tender document inclusive of all the necessary attachments combined
- ▶ Bid envelope need to be clearly marked as follows:

Tender reference number: EOI Notice no. DWS27-0323WT3

Title of tender: **EXPRESSION OF INTEREST (EOI) FOR THE SELECTION OF AN INDEPENDENT POWER PRODUCER (IPP) FOR ENERGY AUGMENTATION AT A SELECTED GOVERNMENT WATERWORKS INFRASTRUCTURE FOR A 20-YEARS OPERATIONAL PERIOD IN DESIGN-BUILD-FINANCE OPERATE (DBFO) MODE**

- ▶ Name of the bidder shall be clearly shown.

Submission of bid proposals 1

Postal submission, the bid response must be delivered at:

Department of Water and Sanitation (Supply Chain Management WTE), Private Bag X313, Pretoria, 0001

Closing date of the bid: 18 April 2023 at 11:00am

Disclaimer for utilization of postal delivery: *It is the responsibility of the bidder to ensure that the bid response is submitted within a reasonable time and that Bid Office officials are informed at least 3 days prior to the closing date about delivery method chosen in order to make necessary arrangement for collection with bid response at registry. Without arrangements there will be no collection and any late bid will not be considered. **Emailed documents will not be considered.***

Submission of bid proposals 2

Courier services, the bid response must be sent to :

Department of Water and Sanitation, Zwamadaka Building, 157 Francis Baard Street, Pretoria 0002

Closing date of the bid: 18 April 2023 at 11:00am

Disclaimer for utilization of courier services: *It is the responsibility of the bidder to ensure that the bid response is submitted within a reasonable time and that the signing of the bid response during delivery is done with the relevant Bid Office officials only. No other officials should be handed the bid response if they are not from Acquisition Management. It will remain the bidder's responsibility to ensure that the bid document is submitted to the relevant officials on or before the closing time of the bid. It is advised that the document response be submitted a day before the closing date to avoid disappointments. Bid office officials will not be held liable for any delays.*

Submission of bid proposals 3

Hand delivery submit tender documents at:

Location of tender box:

The bid box at the entrance

Zwamadaka Building,

157 Francis Baard Street,

Pretoria

0002

Closing date of the bid: 18 April 2023 at 11:00am



Questions

and

Answers



THANK YOU!