Questions
Access to Protection of Personal Information Act (POPI Act), DoE Information Security Policies, South Africa security legislation and regulations and DoE and South African data protection policies, legislation and regulations (POPI).
The function described in the tender document seems not to be a typical MDMS. For instance it does not need to integrate with HES according to the breifing session. If we have a system which can fulfill the functionality but we don't call it MDMS would you accept it?
Need for bi-directional communication between master MDMS and other MDMSs, can you please advise what specific data or command will be required for the master MDMS to talk with the MDMS in municipalities?
Please describe what system should this master MDMS inter-operate with? Can you provide the document which can clearly describe the interfaces' format,definition.etc. What is the way to do inter-operation, is it web-sever or something else? Inter-operability need the effort from both side from the master MDMS and also the MDMS in municipalities, will DoE take the responsibly?
Is there any data center in DOE to accommodate for the equipment? Will DOE provide IT equipment or the bid?
Can you please explain the formula to calculate the generate energy performance indicators and greenhouse gas emissions levels? It will have the impact for system design to achieve the goal.
What are the number of meter points that will be measured?

The tender calls for multiple HES/MDM integration to the master MDM, but no quantities are provided.
If we need to integrate or communicate to the existing smart meters we will need to know what brands and model numbers are being used to ensure we can communicate to these meters
To what extent do we need to communicate to the actual smart meters as apposed to just acquiring data from existing systems
We need to know make and models of the data concentrator to ensure we can communicate with them.
Where is head office
Are you saying we need to actually manage the smart meters?
Please list the existing infrastructures at various locations with in South Africa, We will need sample data.
If we will need to replace existing hardware and software we need to please know what hardware and software is currently being used to know if we need to replace it, this will effect our quote.
By bidirectional communication are you referring to 2 way communication to the meters or just with in the Data Base?
Can we please have a list of the municipalities that we will be analysing data for(We neeed to know how big the system required is so that we can Quote accordingly)
Can we use a cloud based system as apposed to a physical server(This will cut costs dramatically)
Can we give 2 separate quotes, one with a physical server and one with a could server
Where are the main server rooms currently located
We need to know where the miniature substations are as this will effect our quote
What needs to be drawn out in highly detailed drawings?
The function described in the tender document seems not to be a typical MDMS. For instance it does not need MDMS basic function VEE (validation, estimation, and edit) function at all.

Regarding the four municipal MDMS/HES, does the service provider scope include all the activities required to connect to the municipal systems, or should an API/interface just be provided in order for the municipalities to be able to connect? I.e. will some of the work be expected to be done by municipal IT staff?
Will all metering points be serviced by a Smart Meter for remote access
Are HES systems already in place to access all meters?
Will all HES systems implement IEC 61968-9 (CIM) or Multi-Speak message exchange formats
The MDMS and Data Collection platform shall be certified compliant with Multi-Speak or IEC 6168-9. IEC 61968 is transport independent while MultiSpeak is transport specific. SOAP messages using HTTP, TCP/IP sockets. Will HES suppliers implement both and in the case of IEC 6168-9 which transport methods are proposed?
Data can be acquired from remote Head-End-Systems or smart meters. Does this mean the MDM needs to interface directly to some smart meters? If this is the case the type of meters and metering protocols need to be clarified.
SoW essentially implies custom HES to be developed for direct interface to meters and data concentrators. Is this in scope?

Answers
These are public documents and can be accessed freely.
This is a long-term project which is being implemented in phases, this tender being phase 1. We thus need an MDMS system because in the long run we intend to run shared MDM services for small municipalities which cannot afford the cost of MDMS. The integration of master MDMS with HES will in the future be required utilizing Multispeak or IEC standard. In the minimum, the proposed system should be able to provide the following functions; 1. VEE (metering data validation, estimation and editing) , 2. Line loss analysis and abnormal loss demarcation and localization, 3. Energy consumption analysis and 4. Anti-temper management. The system should be able to scale up to become a shared MDMS platform.
Minimum data required shall include; 1. Energy consumption from Government owned loads (i.e. buildings, streetlighting, sewer/water pump stations, etc) collated at MDMS's within Municipalities, 2. Energy supplied by Eskom to municipalities as collated at MDMS's within Municipalities. These are minimum data requirements, however, bidders who take the initiatives to provide more data will be viewed positively.   Consumption data should be categorized per load type (i.e. Government buildings, street lighting, etc) and Data Analysis by users off master MDMS should be possible
The master MDMS should be able to communicate with MDMS at different municiaplities. There are differing MDMS at different municipalities, the master MDMS should be able communicate with any given MDMS. DoE will facilitate meetings between the successful bidder and the service provider(s) within selected municipalities.   The responsibility for successful integration lies with the successful bidder.
Bidders are required to submit quotes including hardware where such is required. Hardware line items should be indicated clearly and qouted separately.
We can provide the municipal EEDSM M&E and other M&E formulas.
Minimum number of meter points = 10,000. This will gradually increase over time, thus the system should be able to accommodate a higher number in the future.

The initial phase (phase 1; THIS TENDER) will be limited to 4 municipalities which will have MDMS/HES installed already. (these are City Power, Thabazimbi, Nala and Mogale City). In the future, the master MDMS should be able to integrate a number of HES/MDMS from provinces, Department of Public Works (11 regional offices), and more than 250 municipalities. As a result, about 300 HES/MDMS are then targeted to be integrated with the master MDMS.
The system is expected to connect to MDMS or HeadEnd system, not directly to metering points.
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Pretoria Central.
No.
Mogale City, Thabazimbi, City Power and Nala. Details relating MDMS/HES protocols will be provided to a successful bidder. MultiSpeak or IEC standards shall apply
The is currently no master MDMS installed. Bidders must qoute for a full system (Hardware, software and integration)
MDMS/HES at the four municipalities.
Mogale City, Thabazimbi, City Power and Nala (Minimum 10,000 metering points combined. This should be scallable over time)
No. We require a physical Master MDMS
Bidder's decision
DoE HeadOffices -Pretoria Central.
Mogale City, Thabazimbi, City Power and Nala
System Architecture in two parts. Part 1 - High Level, Part 2 - Detailed Design.
VEE is a requirement (see section 11.1 (sub-section 9) of Annexure 3B of the bid document)

Service Provider will be expected to connect all four municipality systems to DoE Head Office.
The system is expected to connect to MDMS or HeadEnd system, not directly to metering point
For the purpose of this tender, bidders may assume HES is in place within the municiapality where required.
Yes
Not specified. Bidder must use own discretion to design a functional system.
The system is expected to connect to either MDMS or HeadEnd system, not directly to metering point
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