

SUPPLY, DELIVERY AND SERVER BASED INSTALLATION OF TWO POWER (LV & MV) ANALYSIS LICENCES, INCLUDING SOFTWARE TRAINING FOR TWELVE (NO.12) DELEGATES

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Bid Number : ERW201810/060

Description :

Accredited, experienced and registered Service providers are hereby invited for the supply, delivery, and server based installation of two power (LV & MV) analysis licences, including software training for twelve (No.12) delegates.

SCOPE OF WORKS

- **Balanced 3 Phase Technology**
- **Long Bus Name Capability**
- **Generator Modelling**
 - Generator source impedance models.
 - Multiple generator positions.

Transformer Modelling

- Two winding transformers
- Automatic tap change.
- Lock all tap change facility
- Lock selected transformer tap change facility
- Transformer grounding via impedance
- Multiple transformers.

Branch Modelling

- Resistance, reactance and Charging (Line capacitance) in positive + zero sequence.
- Multiple sections within a branch.

Load Modelling

- Constant power, current or impedance load types or combination
- Load impedance contribution to Faults
- General bulk load scaling functionality
- Coincidence factor scaling functionality per load

Motor Load

Motor steady state condition via the Motor Device, modeled as a constant power load.

Capacitor / Reactor Modelling

- Shunt Reactance via the Shunt Capacitor Device, modeled as a constant impedance load.
- Series Reactance via the Series Capacitor and Reactor Device, modeled as a constant impedance

Analysis Capabilities

Typical voltage solve ranges: LV (<1000V) to HV (765kV+)

Network Modelling

- Geographic or Line Diagram placement.
- Voltage level validations

Network Data Changes

- Single Bus / Branch / Section / Transformer / Load / Generator data changing.
- Rapid Network voltage change.

Load Flow Calculations

- Automatic voltage limit checking and reporting.
- Automatic equipment thermal limit checking and reporting

Fault Current Calculations

- 3 Ø fault
- Ø – G fault
- Ø – Ø fault
- Ø – Ø – G fault

Diagrams

- Manual schematic network representation
- Geographic network representation and modelling
- Automatic feeder length calculation based on layout
- Overview capability
- Zooming at different levels within separate view sheets

Reporting

User definable reports.

OLE Enabled

Must be OLE enabled and allow any OLE enabled application to link with the software to build nodes on the fly and retrieve the results. It must give the user the ability to use any other interface to link to the software, such as CAD, GIS or AM/FM.

General requirements:

1. The software is to comply with relevant SABS Standards.
2. Supplier information like brochures and data sheets detailing how to use the software, draw, simulate, report the findings.
3. The training part of the tender must be done within Gauteng.
4. Training must be done in two groups of six people.

DELIVERY POINT

ERWAT Hartebeestfontein Office Park, Bapsfontein Road, R25, Norkem Park.

AWARD OF BID:

ERWAT reserves the right to accept any bid or part thereof, to award the bid to more than one bidder and does not bind itself to accept the lowest or any bid and not to consider any bid not suitably endorsed or comprehensively completed.

EVALUATION CRITERIA followed to evaluate quotations:

FUNCTIONALITY CRITERIA

Evaluation Criteria		Points	Breakdown of Points
Functionality	Relevant Experience (Each proof of experience provided must be accompanied by completion certificate/Invoice)	50	10 Points – 1 Relevant Reference 20 Points – 2 Relevant Reference 30 Points – 3 Relevant Reference 40 Points – 4 Relevant Reference 50 Points – 5 Relevant Reference
	Delivery Period	50	
Total		100	

All candidates with a functionality result of less than 80% will automatically be disqualified. Candidates require a minimum of 80% Functionality scoring to be considered for further evaluation

Preference points system (PPS) as included in the Preferential Procurement Policy Framework Act, Regulations of 2017:

PPS	Contract value	Formula	Additional Considerations
80/20	Equal to or above R 30 000.00 and up to R 200 000	$Ps = 80(1 - (Pt - P \text{ min}/P))$ Where $Ps = \text{Points scored for price of}$	Bidders may be subjected to a pre-compliance stage and functionality scoring and only

bid under consideration.
 Pt = Rand value of bid under consideration.
 P min = Rand value of lowest acceptable bid.

bidders who score the stipulated minimum points will be illegible to proceed to PPPFA evaluation. Maximum of 20 points may be awarded for BEE level. Bidders are required to tick the relevant box in the table below to claim their points according to their BEE level.

- Above points must be added to points scored for price.
- Only bidder scoring the highest points will be selected for award.

B-BBEE Status Level of Contributor	Number of points (80/20 system)	Kindly tick the applicable level and points
1	20	
2	18	
3	14	
4	12	
5	8	
6	6	
7	4	
8	2	
Non-compliant contributor	0	

Failure on the part of a bidder to submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System (SANAS), or a Registered Auditor approved by the Independent Regulatory Board of Auditors (IRBA) or a sworn affidavit confirming annual turnover and level of black ownership in case of an EME and QSE together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

QUOTATION REQUIREMENTS:

Work offered that **DO NOT** comply with the specifications will not be evaluated. Any works completed will

PLEASE NOTE THAT FAILURE TO MEET ANY OR ALL OF THESE REQUIREMENTS WILL LEAD TO DISQUALIFICATION

- Valid Certified copy or original BBBEE Compliance Certificate to verify the above claimed points;
- Valid Tax Clearance Pin issued by SARS on e-filing Bidders are required to submit their SARS pin and certificate as prescribed by SARS effective from 01 April 2016. Please visit www.sars.gov.za or ERWAT Website: www.erwat.co.za/procurement for more information;
- Copy of Latest Municipal Account (not older than three months from date of closing);
- Declaration of Interest – MBD 4.2 (Download form ERWAT website/Procurement/Service Provider Registration).
- Bidders must be registered with National Treasury's Centralised Supplier Database (CSD) and can visit www.csd.org.za for more information and registration procedures.
- **CSD Registration Number: MAAA** _____
- Valid Construction Industry Development Board Registration (CIDB): **Valid CRS number:** _____

GENERAL NOTES

SUBMISSION OF BIDS:

WEB TENDER BOXES SUBMISSION SITUATED AT ERWAT HEAD OFFICE:

Completed tenders / quotations must be in a **sealed envelope** clearly marked with **bid number and description** may be hand delivered and deposited in the stipulated **TENDER BOX** (marked Monday, Tuesday, Wednesday, Thursday, Friday) at ERWAT Head Office, Hartbeestfontein Office Park, Bapsfontein Road, Kempton Park. No faxed bids/proposals shall be accepted. In the event of uncertainty, kindly visit the receptionist situated at the FOYER of the main building for clarity.

Please note that bids not received on the specific time and date will be marked as late bids/proposals and such bids/proposals will, in terms of the Supply Chain Management Policy of ERWAT, not be considered by ERWAT as valid bids/proposals.

Complete quotations with supporting documents must be sealed and externally

endorsed with **BID NUMBER** and marked with the full **DESCRIPTION** and placed in the relevant Bid Box as stipulated in the advertisement and/or bidding document.

Bidders may attend the web-tender opening sessions in the event of submitting a tender in the web-tender boxes.

ELECTRONIC SUBMISSIONS:

- Bidders may submit their web-bids via e-mail: webtenders@erwat.co.za **in a PDF format only.**
- **Bidders must complete the SUBJECT BOX with the relevant web-tender number and full description as advertised.**
- **Failure to include this may render your bid invalid.**
- ***Please note that bids submitted electronically must be in the above e-mail address on or before 12:00 of the stipulated closing date. No electronic submissions received after 12:00:00 will be considered for recording and or evaluation.***
- Bidders may submit documents and attachments up to 10MB.
- Bidders will be required to compress their file to a **compact PDF format.**
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Bid closing date :	2018-11-05
Compulsory site meeting :	N/A
Contact Person :	Siviwe Bunge
Contact number :	011 929-7000
E-mail address :	N/A
Bid validity period :	7 Days
Physical address where bid documents can be collected :	ERWAT Head Office, Hartebeestfontein Office Park, R25, Norkem Park.
Tender Box number :	N/A
Day when Tender is to be submitted to ERWAT Offices:	N/A
Non-refundable Document fee :	N/A ERWAT will not accept cash. All payments to be made by Credit Card only
CIBD required?	N/A
<input type="text"/>	
<p>Bids must be hand delivered to the Bid Box situated at the address: ERWAT Head Office, Hartebeestfontein Office Park, Bapsfontein Road (R25), Kempton Park.</p> <p>Complete Tenders must be in a sealed envelope clearly marked with ERW201810/060 and SUPPLY, DELIVERY AND SERVER BASED INSTALLATION OF TWO POWER (LV & MV) ANALYSIS LICENCES, INCLUDING SOFTWARE TRAINING FOR TWELVE (NO.12) DELEGATES. and to be hand delivered, in the TENDER BOX N/A at the foyer at ERWAT Head Office, Bapsfontein Road (R25), Kempton Park.</p> <p>No e-mail or faxed bids/proposals shall be accepted. Bids/Proposals that are not received on the specific time and date will be marked as late bids/proposals and such bids/proposals will, in terms of the Supply Chain Management Policy of ERWAT, not be considered by ERWAT as valid bids/proposals.</p> <p>Bidders' attention is specifically drawn to the provision of the bid rules which are included in the bid document.</p> <p>The lowest or any bid will not necessarily be accepted and ERWAT reserves the right not to consider any bid not suitably endorsed or comprehensively completed, as well as the right to accept a bid in whole or part. Bids completed in pencil will be regarded as invalid bids.</p> <p>Submission of electronic and fax bids are not acceptable.</p>	