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# Joint Stock Company Kazakhstan Electricity and Power Market Operator (JSC KOREM)

# THE SYSTEM OF "JSC KOREM AUCTION HOLDING" (JSC KOREM TS)

USER GUIDE Edition 3.0

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## 1. INTRODUCTION

## 1.1. Scope of application

This document provides guidance for working with a system – Holding auctions of the JSC KOREM and is designed for auction participants to work with trading system of JSC KOREM (hereinafter – JSC KOREM TS).

## 1.2. Brief description

The JSC KOREM TS is designed to organize and hold auction as well as to participate in it.

Feature set of JSC KOREM TS represented in the system allows to perform the following basic processes of auction participant:

- Online sign-up;
- Edit profile;
- Add new auctions operator;
- View auctions list;
- Submission of bid to trading system;
- Adjust bid made;
- View my bids available in the trading system;
- View winning bidders list;
- View data on auctions held;
- View event logs;
- View current server time of the trading system;
- View auction remaining time.

## 1.3. User skills

The user should know how to work with the Microsoft Windows, Microsoft Office, Google Chrome, Mozilla Firefox, Internet Explorer and others and also possess knowledge in the relevant subject field.

## 1.4. The list of operational documentation for user to get acquainted with

- Rules of organizing and holding auctions, including qualification requirements for auction participants, the content and procedure for submitting applications, types of financial guarantee for participation in auctions and conditions of their deposit and return, the procedure for summing up the results and determining the winner;
- Methodology guidelines for holding auction

## 2. PURPOSE AND CONDITIONS OF USE

## 2.1. Types of activities automated

Described feature set implemented in the system automates auctions participant operation and allows to perform basic processes for participation in the auctions.

## 2.2. Conditions of use of automation means

To work with the JSC KOREM TS in automated mode the user shall adhere to the following conditions:

- The user's workstation should be equipped with a personal computer with online access to JSC KOREM TS, RAM – at least 2 GB, processor speed – at least 2GHz, monitor screen resolution – at least 1280×1024;
- Whenever necessary, the computer should have access to the printer and document scanner not lower than the A4;
- The Mozilla Firefox, Google Chrome, Internet Explorer or others should be installed in PC;
- Participant should sign-up in the system;
- The user should know how to work with the Microsoft Windows, Microsoft Office,
   Google Chrome, Mozilla Firefox, Internet Explorer and others.

## 3. PROCESSES DESCRIPTION

## 3.1. Processes sequence

JSC KOREM TS processes sequence to participate in auctions:

- 1. Online sign-up of auctions bidder.
- 2. Editting login details.
- 3. Submission of bid proposal.
- 4. Viewing bids made in TS from the Organizer's database archive.
- 5. View preliminary auction results for selection of projects using biomass, biogas and other fuels from organic waste used for electricity production.
- 6. View proposal in dialog box with preliminary auction results for selection of projects using biomass, biogas and other fuels from organic waste used for electricity production and ability to respond to this proposal.
  - 7. Viewing all actions of auctions participant done in the TS.

## 3.2. Online user sign-up

In order to work in the JSC KOREM TS sign in to the System. To do this, follow these steps:

- 1. Launch the Internet browser that is on the "Desktop" or in the "Taskbar" and enter <a href="https://korem.kz">https://korem.kz</a>, the JSC KOREM address in the address bar.
- 2. Operating system will download the webpage and show the JSC KOREM website (Figure 1).

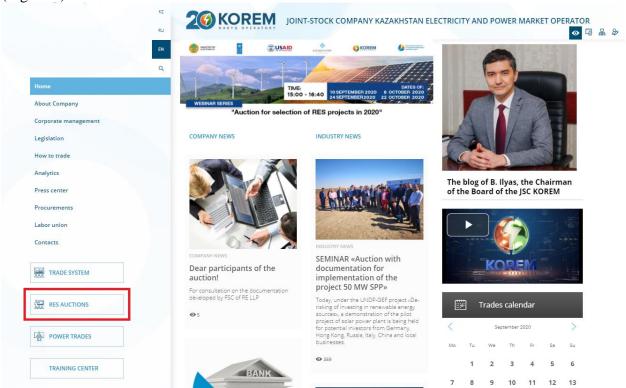


Figure 1. JSC KOREM webpage

- 3. Click on the "RES Auctions" button located in the left panel of the JSC KOREM website menu.
- 4. Click on the "Login to the Trading System" button on the opened page to login to the TS (Figure 2).



Figure 2. Login to the Auctions Trading System

5. Operating system will download the webpage and show the authorization window for logging in to the JSC KOREM TS (Figure 3).

*Note:* if necessary, you can select the appropriate language (Kazakh, Russian, English).

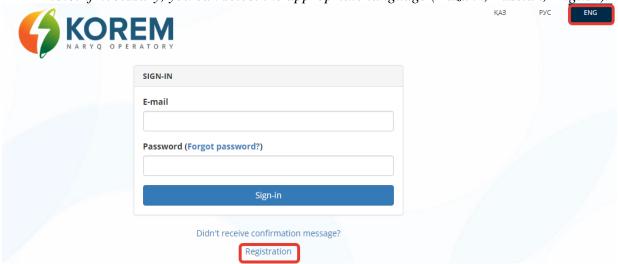


Figure 3. Authorization window

6. Click on the **"Registration"** link in the opened page to sign-up online (Figure 3).

**Note 1:** If you are already signed up in the System, enter your e-mail address in the "E-mail" input field, and in the "Password" input field enter password that you entered upon signing up in the System. Then click on the «Login to the Trading System» button (Figure 3).

Note 2: If you have forgotten password for user account, click on the "Forgot Password?" link (Figure 3). Then enter your e-mail address in the "E-mail" field and click on the "Continue" button (Figure 4). Instructions for changing password will be sent to your e-mail.

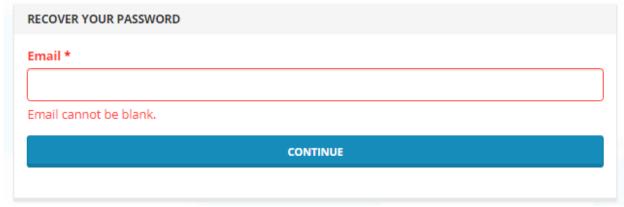


Figure 4. Password recovery

7. The system will provide a registration form interface with fields to be filled in (Figure 5).

REGISTRATION FORM	
Fields marked with * are mandatory	
Company Name *	
Legal Address *	
Physical Address *	
Name *	
E-mail *	
Password *	
Retype Password *	
	Password requirements The password must be at least 8 characters in length. The password must contain symbols of three categories from among the following four:  • capital letters of the English alphabet from A to Z • lowercase letters of the English alphabet from a to z • decimal digits (from 0 to 9) • non-alphabetic characters (for example,!, \$, #,%)
Enter the image code *	cfdghe ==
	SIGN UP  Already registered? Sign in!

Figure 5. Registration form

- 8. Enter the following data in this registration form:
  - in the field "Company name" enter the full name of the Company;
- in the field "**Legal address**" enter the data concerning legal address of the Company;
- in the field "Physical address" enter the data concerning the physical address of the Company;
- in the field "Name", enter your surname, first name and patronymic;
- in the field "E-mail" enter the e-mail, which is the identifier for logging in the TS;
- in the field "Password" enter data in random order containing the symbols, taking into account password requirements. The password must consist of at least 8 characters. The password should contain characters from three categories from among the following four:
  - ✓ capital letters of the English alphabet from A to Z;
  - ✓ lowercase letters of the English alphabet from a to z;
  - ✓ decimal numbers from 0 to 9;
  - ✓ non-alphabetic characters, for example!, #,%.
- 9. After filling all fields, enter the proposed image code and click on the **"Register"** button (Figure 5).

Note: If the image code is not clear, press the « » button to renew.

10. The system will check fields filled in the registration form. If some fields are filled in or filled in incorrectly, the System will show error message (Figure 6).

#### Please fix the following errors:

- · Enter the image code cannot be blank.
- · Name cannot be blank.
- · Physical Address cannot be blank.
- Legal Address cannot be blank.
- · Company Name cannot be blank.
- · Retype Password cannot be blank.
- · Password cannot be blank.
- · E-mail cannot be blank.
- Username cannot be blank.

Figure 6. Message on error filling fields in the registration form

11. Upon proper filling, the system will show the following information (Figure 7):

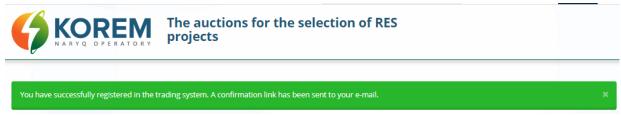


Figure 7. Successful sign-up in the TS page

- 12. To your E-mail, that was indicated in the registration form, you will receive an automatically generated e-mail with the "Confirmation of registration at auctions" subject from "korem@vsm.kz".
  - 13. Open the email and to activate your account by clicking on the link in the email.

## 3.3. Registration data

## 3.3.1. "Information about the Organization" tab

1. After following the link indicated in your e-mail, the System will show the **«Information about the Organization»** page. To complete the registration, fill all required fields in with information about your Company and click on the **«Save form»** button (Figure 8).

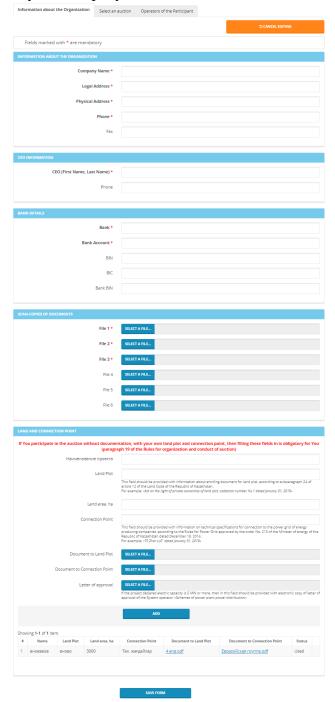


Figure 8. "Registration data" section. "Information about the Organization" tab

The «Information about the Organization» tab contains the following components:

"Information about the Organization" section:

Field "Company name". Type – text. Editable. Mandatory. The field should be provided with Company's full name and type of business.

Field "**Legal address**". Type – text. Editable. Mandatory. The field should be provided with legal address of the Company.

Field **''Physical address''.** Type – text. Editable. Mandatory. The field should be provided with physical address of the Company.

Field **''Phone''.** Type – text. Editable. Optional. The field should be provided with phone number of the Company.

Field **''Fax''.** Type – text. Editable. Optional. The field should be provided with fax number of the Company.

## "Information about the leader" section:

Field "CEO Information". Type – text. Editable. Mandatory. The field should be provided with last name, first name, patronymic of the CEO of the Company.

Field **"Phone".** Type – text. Editable. Optional. The field should be provided with phone number of the CEO of the Company.

## "Bank requisites" section:

Field **''Bank''.** Type – text. Editable. Mandatory. The field should be provided with bank name.

Field **"Bank account".** Type – text. Editable. Mandatory. The field should be provided with bank account.

Field "BIN". Type – text. Editable. Optional. The field should be provided with business identification number of the Company.

Field "BIC". Type – text. Editable. Optional. The field should be provided with bank identification code.

Field "Bank BIN". Type – text. Editable. Mandatory. The field should be provided with business identification number of the bank.

## "Scan-copies of documents" section:

Field "File 1". Type – blob. Editable. Mandatory. The field should be provided with a scan copy of the Company's charter by uploading ".pdf" file.

Field "File 2". Type – blob. Editable. Mandatory. The field should be provided with a scan copy of certificate of state registration / re-registration of legal entity, appointment of CEO by uploading ".pdf" file.

Field "File 3". Type – blob. Editable. Mandatory. The field should be provided with a scan copy of decision of legal entity's relevant body on appointment of CEO by uploading ".pdf" file.

Field **"File 4".** Type – blob. Editable. Optional. The field should be provided with a scan copy of the power of attorney for representative is loaded (if representation of interests is not made by CEO) by uploading ".pdf" file.

Field "File 5". Type – blob. Editable. Optional. The field should be provided with a scan copy of legal entity details (bank details, address, contact phone numbers, e-mail address) by uploading ".pdf" file.

Field "File 6". Type – blob. Editable. Optional. The field should be provided with a scan copy of document confirming the financial security of the bid proposal by uploading ".pdf" file.

Section "Land plots and connection points":

*Note:* If the participant has own land plots and connection points that will be used in the auction, the fields listed below are obligatory.

Field **«Project name»**. Type – text. Editable. The field is provided with name of project to which the data on land plot and connection point will be linked.

Field «Land plot». Type – text. Editable. The field is provided with information on legal document for land plot in accordance with subparagraph 24 of article 12 of the Land Code of the Republic of Kazakhstan. *For example:* «Act on right of private ownership of land, cadastral number 1 dated 01.01.2009».

Field "Land area, Ha". Type – number. Editable. The field should be provided with data on area of land plot in hectare.

Field «Connection point». Format – text, number. Editable. The field is provided with information on technical specifications for connection to electric grid of energy producing organizations, according to the Grid regulations approved by the order No. 210 of the Minister of

energy of the Republic of Kazakhstan dated December 18, 2014. *For example: "TS for "Zhar" LLP dated 01.01.2019"*.

Field "**Document for land plot**". Type – blob. Editable. The field is provided with a scanned copy of the document confirming the availability of land plot.

Field "**Document for connection point**". Type – blob. Editable. The field is provided with a scanned copy of the document confirming the availability of connection point.

Field "Letter of approval". Type – blob. Editable. If the declared electric capacity of the project is 5 MW or more, this field is provided with electronic copy of the letter of approval of the System operator "Scheme of power distribution of power plant".

Upon full filling in of fields of the section "Land and connection points", in order to save you should click on the "Add" button. After clicking on the "Add" button, the System will save the data entered. There is also a possibility to delete or replace the downloaded scanned copies of the documents in the section "Land and connection points" (Figure 9).

LAND AND CONNECTION POINT	
	ntation, with your own land plot and connection point, then filling these fields in is obligatory for You aph 19 of the Rules for organization and conduct of auction)
Наименование проекта	
Land Plot	This field should be provided with information about entitling document for land plot, according to subparagraph 24 of article 12 of the Land Code of the Republic of Kazakhstan.  For example: «Act on the right of private ownership of land plot, cadastral number No.1 dated January 01, 2019»
Land area, ha	
Connection Point	This field should be provided with information on technical specifications for connection to the power grid of energy producing companies, according to the Rules for Power Grid approved by the order No. 210 of the Minister of energy of the Republic of Kazakhstan dated December 18, 2014.  For example: "TS Zhar LLP" dated January 01, 2019»
Document to Land Plot	SELECT A FILE
Document to Connection Point	SELECT A FILE
Letter of approval	SELECT A FILE  If the project declared electric capacity is 5 MW or more, then in this field should be provided with electronic copy of letter approval of the System operator «Schemes of power plant power distribution»
	ADD
Showing 1-1 of 1 item.  # Name Land Plot Land area, ha	Connection Point Document to Land Plot Document to Connection Point Status
	SAVE FORM

Figure 9. Section "Land plots and connection points"

2. After clicking on **«Save form»** button, the system will save data entered, however in the **«Scan-copies of documents»** section you can remove uploaded scan-copies of documents, download or replace them (Figure 10).

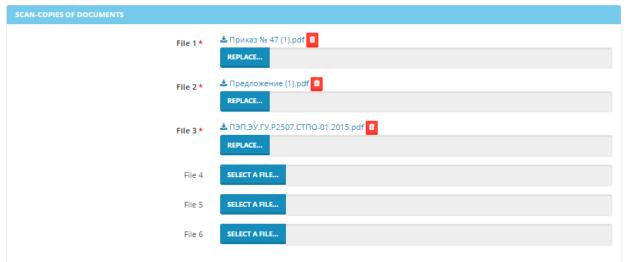


Figure 10. "Scan-copies of documents" section after saving

3. Click the "Complete registration" button to complete the registration (Figure 11).

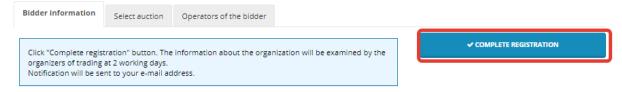


Figure 11. Registration completion

4. The organizer of the auctions will review information concerning the Company within two working days. Notification registration status change will be sent to your e-mail address. The system will provide a dialog box with the following content: "Your registration is under processing" (Figure 12):

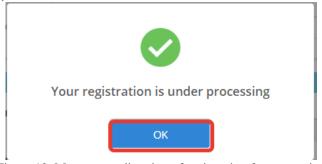


Figure 12. Message on direction of registration for processing

- 5. Click the "**OK**" button, the "Complete registration" button will automatically be replaced with the "Edit" button.
- 6. Click the **"Edit"** button to edit registration data made earlier, and then save the changes again (Figure 13).



Figure 13. Registration data editing

## 3.3.2. "Select an Auction" tab

1. Go to the "Registration data" section, select the "Select an Auction" tab. The system will show the auction list according to the approved auction schedule. Select the auction from the list by setting flags in corresponding checkbox (Figure 14).

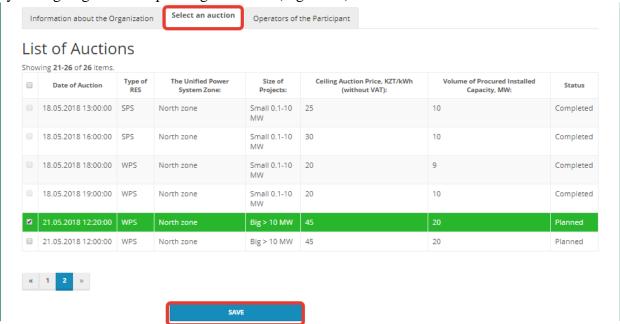


Figure 14. "Registration data" section. "Select an Auction" tab

2. After selecting auction for a certain date, click on the **"Save"** button (Figure 14). The system will save parameters selected.

In the "Select an Auction" tab there is "List of Auctions" table, which contains:

Column "Bidding Date". Type – Date. Uneditable. The field displays auction date.

Column **"Type of auction"**. Type – text. Uneditable. The field displays Type of auction (with documentation, without documentation).

Column **"Type of RES"**. Type – text. Uneditable. The field displays type of RES (WPP, HPP, SPP, BioPP).

Column "**UPS Zone**". Type – text. Uneditable. The field displays Unified Power System zones (Northern zone, Western zone, Western and Northern zones, Southern zone, North and South zones, all zones).

Column "Size of Project". Type – text. Uneditable. The field displays size of projects (Small from 0.75 to 10 MW, small from 0.1 to 10 MW, large over 10 MW).

Column "Ceiling auction price, KZT/kWh (without VAT)". Type – number. Uneditable. The field displays value of ceiling auction price, KZT/kWh (without VAT).

Column "Volume of procured installed capacity, MW". Type – number. Uneditable. The field displays value of volume of procured installed capacity, MW.

Column "Status". Type – text. Uneditable. The field displays current status of auctions. Button "Save". Type – tool for saving information.

## 3.3.3. "Operators of the bidder" tab

Go to the "Registration data" section, select the "Operators of the bidder" tab. The system will show an interface with data input fields for adding operator. Click on the "Add operator" button after filling the fields. (Figure 15):

ADD 0	PERATOR			
	Name *			
	E-mail *			
	Phone			
	Fax			
	Mobile number			
ADD OPERATOR				
OPER/	ATORS LIST			
Showi	ing <b>1-1</b> of <b>1</b> item.			
#	Full name	E-mail	Phones	
1	Paul Ling	paul.ling@gmail.com	City phone:665588 Fax:447788	/ ×

Figure 15. "Registration data" section. "Operators of the bidder" tab

"Add operator" section contains the following elements (Figure 15):

Field "Name". Type – text. Editable. Mandatory. The field should be provided with last name, first name, patronymic of the operator.

Field "**E-mail**". Type – text. Editable. Mandatory. The field should be provided with email address of the operator.

Field **"Phone".** Type – text. Editable. Optional. The field should be provided with phone number of the operator.

Field **"Fax".** Type – text. Editable. Optional. The field should be provided with fax number of the operator.

Field "Mobile number". Type – text. Editable. Optional. The field should be provided with mobile phone number of the operator.

Button "Add operator". Type – tool for confirmation of operator adding data entry.

If you click on the "**Add operator**" all operator-related information will be displayed in the "**Operators list**" table, which contains the following elements (figure 14):

Column **"Full name".** Type – text. Uneditable. The field displays last name, first name, patronymic of the operator.

Column **"E-mail".** Type – text. Uneditable. The field displays e-mail address of auctions operator.

Column **"Phones".** Type – text. Uneditable. The field displays phone numbers of auctions operators.

Field ". Tool for editing rows of the "Operators list" table.

Field " Tool for deleting rows in the "Operators list" table.

1. The TS will automatically generate and send an e-mail to the e-mail address of the additional operator with the subject "You were invited by an additional operator" from korem@vsm.kz. In order to log in to personal account of additional operator follow the link for creation a password within 24 hours.

#### 3.4. Auction

- 1. Go to the "Auction" section.
- 2. If the trading session is closed and/or all auctions are completed, the System will show a warning message with the date of the next nearest scheduled auctions (Figure 16).

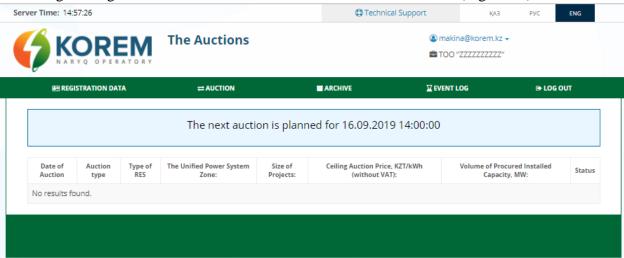


Figure 16. Section "Auction". "Trading session is closed" interface

- 3. If you are not allowed to auctions, the system displays a warning "You do not have an access to current auction" (Figure 17). You may not be allowed to auction in the following cases:
  - 1) untimely payment of the Organizer's Service;
  - 2) untimely payment of the Organizer's Service;
  - 3) untimely provision of financial security to the financial settlement center;
  - 4) untimely submission to the Organizer the information on changes in the participant's details;
  - 5) non-fulfillment of other obligations stipulated by the Contract.

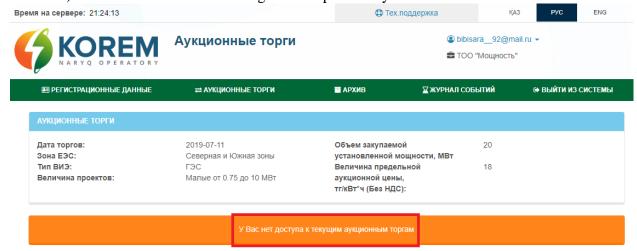


Figure 17. Section "Auction". "You do not have an access to current auction" interface

**Note:** A trading session is conducted on a schedule approved by the authorized body according to the Schedule and lasts one (1) hour. In this case, the trading session is extended by 5 (five) minutes upon receipt of an application from the auction participants with a price lower than the available minimum offer within five minutes before the end of the trading session. The total time of trading session including possible prolongation is not more than 3 (three) hours from the opening time.

Bids from auctions participant are received since opening of the trading session.

Only to those participants have access to the trading session who participate in this trading session according to the Contract.

## 3.4.1. Auction with documentation

1. During participation in the auction with documentation, if the trading session is open and You are eligible to auction, the System will provide the TS interface on holding auction with documentation (Figure 18).

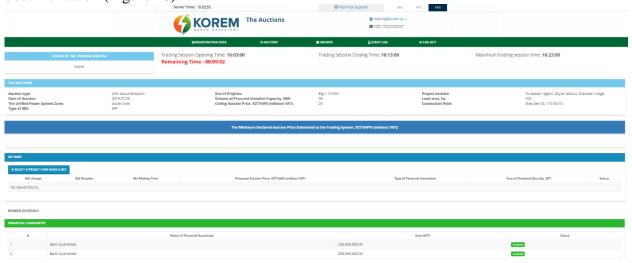


Figure 18. Section "Auction". Interface "Trading session is open in course of the auction with documentation"

- 2. With opened trading session, in the "Auction" section there are 5 information panels (Figure 18):
  - 1) Panel "Status of the trading session" panel with the following fields (filled in automatically):

Field "Status of the trading session". Type – text. Uneditable. The field displays the status of the trading session - open/closed/paused/canceled.

Field **"Trading session opening time".** Type – time (HH:MM:SS). Uneditable. The field displays opening time of the trading session.

Field "**Trading session closing time**". Type – time (HH:MM:SS). Uneditable. The field displays closing time of the trading session.

Field "**Trading session opening time**". Type – time (HH:MM:SS). Uneditable. The field displays maximum time of trading session.

Field "Remaining time". Type – time (HH:MM:SS). Uneditable. The field displays time remaining before closing of trading session.

2) "Auctions for the selection of RES projects" panel with the following fields (filled in automatically):

Field "Type of auction". Type – text. Uneditable. The field displays Type of auction (with documentation, without documentation).

Field "Bidding Date". Type – date (YYYY-MM-DD). Uneditable. The field displays auction date.

Field "Unified Power System Zone". Type – text. Uneditable. The field displays name of Unified Power System zone (Northern, Southern, Western).

Field "**Type of RES**". Type – text. Uneditable. The field displays type of renewable energy source (SPP, WPP, HPP, BioPP).

Field "Size of Project". Type – text. Uneditable. The field displays the size of the projects in MW (large, over 10 MW, small, 0.75 to 10 MW, small, 0.1 to 10 MW).

Field "Volume of procured installed capacity, MW". Type – number. Uneditable. The field displays volume of procured installed capacity (the parameter is not less than 100 kilowatts (kW), a multiple of 1 (one) kW indicated in megawatts (MW)).

Field "Ceiling auction price, KZT/kWh (without VAT)". Type – number. Uneditable. The field displays value of Ceiling auction price, KZT/kWh (price of electric energy per kWh without VAT in national currency of the Republic of Kazakhstan with number of significant digits after decimal place of not more than two).

Field "**Project location**". Type – text. Uneditable. The field displays information about location of the project.

Field **"Land area, ha".** Type – number. Uneditable. The field should be provided with data on area of land in hectare.

Field **«Connection point».** Format – text, number. Uneditable. The field should be provided with information on the possibility of connecting to the electricity grids of power transmission organizations with the indication of the maximum permissible capacity for electrical grids connection points and the number of possible connections.

3) "My bids" table with current bids made. These fields are filled in as bids are received: Button "Select project make a bid". Type – tool for selecting project to make a bid. The button is active when the trading session is opened (Figure 19).



Figure 19. "Select project make a bid" button

Column **''Bid number''.** Type – number. Uneditable. The field displays number of bids made.

Column **''Bid making time''.** Type – time. Uneditable. The field displays time of bids made.

Column "**Proposed auction price**, **KZT/kWh (without VAT)**". Type – number. Uneditable. The field displays proposed auction price, KZT/kWh (without VAT).

Column **"Type of financial guarantee".** Type – text. Uneditable. The field displays the type of financial security.

Column "Sum of financial security thousand KZT". Type – number. Uneditable. The field displays sum of financial security thousands of tenge.

Column "Status". Type – text. Uneditable. The field displays status of auctions.

- 4) Dashboard "Ranked schedule" of proposal compiled on basis of applications submitted by auction participant into the System. The application submitted during the trading session is displayed in red in the ranked schedule, the applications of other participants are displayed in the ranked schedule in black.
- 5) **"Financial guarantee"** table with the following information:

Column "#". Type – number. Uneditable. The field displays number of financial security.

Column **"Name of financial guarantee".** Type – text. Uneditable. The field displays type of financial security (Bank guarantee, letter of credit).

Column "**Sum** (**thousand KZT**)". Type – number. Uneditable. The field displays sum of financial security thousands of tenge.

Column **"Status".** Type – text. Uneditable. The field displays status of financial security (Available, Used).

Field "Minimum declared auction price submitted to the trading system, KZT/kWh (without VAT)". Type – number. Uneditable. The field displays minimum declared auction price submitted to the trading system in KZT/kWh (without VAT), and is changed during auction and only downwards.

*Note:* during the trading session the following information is available to participants:

- 1. general information, describing auctions specified in the schedule approved by competent authority:
  - trading session opening time;
  - trading session closing time;
  - maximum time of trading session;
  - remaining time of the trading session;
  - type of auction;

- Unified Power System zone;
- type of RES;
- size of projects;
- volume of procured capacity (MW);
- ceiling auction price (KZT/kWh (without VAT));
- project location;
- land area, Ha;
- connection point.
- 2. bid for participation in auction with documentation submitted by participants with all its parameters (bid price, bid making time);
  - 3. ranked schedule of proposals;
- 4. the lowest price indicated in applications for participation in auction with documentation for sale.
- 3. When you click on the "Select a project and make a bid" button the System will show the interface of bid making (Figure 20).

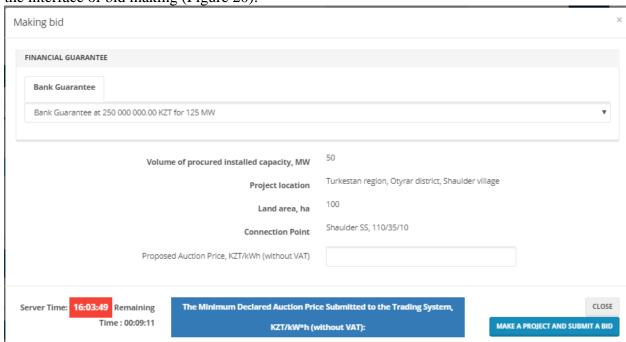


Figure 20. Interface "Submission of bid" of auction with documentation

Interface of "Bid making" contains the following elements:

1) Field "Financial security." Type – text. Editable. In a field by selecting values from the drop-down list, you can enter type of financial security provided by participant for participation in the auction (bank guarantee, letter of credit).

Auctions participant can choose only one type of financial security for each bid.

- 2) Field "Volume of procured installed capacity, MW". Type number. Type number. Uneditable. The field displays volume of procured installed capacity (the parameter is not less than 100 kilowatts (kW), a multiple of 1 (one) kW indicated in megawatts (MW)).
- 3) Field "**Project location**". Type text. Uneditable. The field displays information about location of the project.
- 4) Field "Land area, ha". Type number. Uneditable. The field should be provided with data on area of land in hectare.
- 5) Field «Connection point». Format text, number. Uneditable. The field should be provided with information on the possibility of connecting to the electricity grids of power transmission organizations with the indication of the maximum permissible capacity for electrical grids connection points and the number of possible connections.

6) Field "Proposed auction price, KZT/kWh (without VAT)". Type – number. Editable. The field should be provided with bid price in KZT per kWh without VAT and with number of significant digits after decimal place of not more than 2.

Attention: Bid price should not exceed the ceiling auction price.

**Attention:** Price change step is 5 tiyn/kWh (Figure 21).



Figure 21. Dialog window on the inaccurate entry of bid price

**Attention:** Bid price should not be similar to minimum bid price submitted to the TS. **Attention:** Bid price should not be similar to bid price of other auctions participant or of your own bid previously submitted (Figure 22).

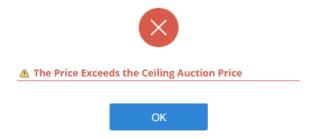


Figure 22. Dialog window on the inaccurate entry of bid price

- 7) Field "Minimum declared auction price submitted to the trading system, KZT/kWh (without VAT)". Type number. Uneditable. The field displays minimum declared auction price submitted to the TS in KZT/kWh (without VAT)".
- 8) Field "Server time". Type time (HH:MM:SS). Uneditable. The field displays the time of the server by Nur-Sultan time.
- 9) Field "**Remaining time**". Type time (HH:MM:SS). Uneditable. The field displays time remaining before closing of trading session.
- 10) Button "Close". Type tool for closing application submission window and return to auctions main page.
- 11) Button "Submit a bid". Type tool for saving data entered upon successful completion of all fields and submission of application.
- 4. After clicking the "Make a project and submit a bid" button (Figure 20) a dialog window will be opened with confirmation of accuracy of filling (Figure 23).

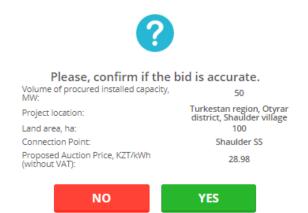


Figure 23. Dialog window on confirmation of submission

If You click **No** button, you will be returned to bid editing window.

If You click **Yes** button, the bid will be recorded in the TS database that will be confirmed with pop up dialog window (Figure 24):



Your Bid #2/1 has been successfully submitted!



Figure 24. Dialog window confirming successful submission

5. Then click the "OK" button and you will go to the main auction page (Figure 25). Bid number and bid making time automatically locks after successful submission (Figure



Figure 25. Section "Auction". Interface after bid submission

6. The table "My bids" displays data on participant bids. Bid status will be changed to "Accepted" (Figure 25).

**Note:** Auctions participant may change previously submitted bid, submit a new one, but not to remove.

Financial security status will be changed to "Used" in the "Financial security" table (Figure 25).

7. To change previously submitted bid click on the then bid making window will open with previously entered data.

When updating an previously submitted application, the participant can change the bid price, only downwards with price change step at least 5 tiyn/kWh. Other fields – inactive.

## **3.4.2.** Auction without documentation

- 1. With opened trading session, in the "Auction" section there are 4 information panels (Figure 26):
  - 1) "Status of the trading session" panel with the following fields (filled in automatically):

Field "Status of the trading session". Type – text. Uneditable. The field displays the status of the trading session – open/closed/suspended/canceled/preliminary results/closed within a minute.

Field "**Trading session opening time**". Type – time (HH:MM:SS). Uneditable. The field displays opening time of the trading session.

Field "**Trading session closing time**". Type – time (HH:MM:SS). Uneditable. The field displays closing time of the trading session.

Field **"Trading session opening time".** Type – time (HH:MM:SS). Uneditable. The field displays maximum time of trading session.

Field "**Remaining time**". Type – time (HH:MM:SS). Uneditable. The field displays time remaining before closing of trading session.

2) "Auctions for the selection of RES projects" panel with the following fields (filled in automatically):

Field "Type of auction". Type – text. Uneditable. The field displays Type of auction (with documentation, without documentation).

Field "Bidding Date". Type – date (YYYY-MM-DD). Uneditable. The field displays auction date.

Field "**Unified Power System Zone**". Type – text. Uneditable. The field displays name of Unified Power System zone (Northern, Southern, Western).

Field "**Type of RES**". Type – text. Uneditable. The field displays type of renewable energy source (SPP, WPP, HPP, BioPP).

Field "Size of Project". Type – text. Uneditable. The field displays the size of the projects in MW (large, over 10 MW, small, 0.75 to 10 MW, small, 0.1 to 10 MW).

Field "Volume of procured installed capacity, MW". Type – number. Uneditable. The field displays volume of procured installed capacity (the parameter is not less than 100 kilowatts (kW), a multiple of 1 (one) kW indicated in megawatts (MW)).

Field "Ceiling auction price, KZT/kWh (without VAT)". Type – number. Uneditable. The field displays value of Ceiling auction price, KZT/kWh (price of electric energy per kWh without VAT in national currency of the Republic of Kazakhstan with number of significant digits after decimal place of not more than two).

3) **"My bids"** table with current bids made. These fields are filled in as bids are received: Button **"Select project make a bid".** Type – tool for selecting project to make a bid. The button is active when the trading session is opened (Figure 27).



Figure 27. "Select project make a bid" button

Column **''Bid number''.** Type – number. Uneditable. The field displays number of bids made.

Column **''Bid making time''.** Type – time. Uneditable. The field displays time of bids made.

Column "Volume of project installed capacity, MW". Type – number. Uneditable. The field displays volume of project installed capacity, MW.

Column "Minimum volume of the project installed capacity, MW". Type – number. Uneditable. The field displays minimum volume of project installed capacity, MW.

Column **"Proposed auction price, KZT/kWh (without VAT)".** Type – number. Uneditable. The field displays proposed auction price, KZT/kWh (without VAT).

Column "Location". Type – text. Uneditable. The field displays name of location.

Column **"Land area, ha."** Type – number. Uneditable. The field displays area of land in hectares.

Column "Land category". Type – text. Uneditable. The field displays category of land.

Column **"PTL".** Type – text. Uneditable. The field displays name of power transmission line.

Column "Name and coordinates of the substation". Type – text. Uneditable. The field displays name and coordinates of the substation.

Column "Buses". Type – text. Uneditable. The field displays name of the bus.

Column "Limitation on the connected capacity (maximum permissible volume of installed capacity), MW". Type — number. Uneditable. The field displays limitation on the connected capacity in MW.

Column **''Limitation on number of new connections''.** Type – number. Uneditable. The field displays limitation on number of new connections.

Column **"Type of financial guarantee".** Type – text. Uneditable. The field displays the type of financial security.

Column "Sum of financial security thousand KZT". Type – number. Uneditable. The field displays sum of financial security thousands of tenge.

Column "Status". Type – text. Uneditable. The field displays status of auctions.

4) **"Financial guarantee"** table with the following information:

Column "#". Type – number. Uneditable. The field displays number of financial security.

Column **''Name of financial guarantee''.** Type – text. Uneditable. The field displays type of financial security (Bank guarantee, letter of credit).

Column "Sum (thousand KZT)". Type – number. Uneditable. The field displays sum of financial security thousands of tenge.

Column **"Status".** Type – text. Uneditable. The field displays status of financial security (Available, Used).

Field "Minimum declared auction price submitted to the trading system, KZT/kWh (without VAT)". Type – number. Uneditable. The field displays minimum declared auction price submitted to the trading system in KZT/kWh (without VAT), and is changed during auction and only downwards.

*Note:* during the trading session, the following information is open to auction participants without documentation:

- 1. general information, describing auctions specified in the schedule approved by competent authority:
  - trading session opening time;
  - trading session closing time;
  - maximum time of trading session;
  - remaining time of the trading session;
  - type of auction;
  - Unified Power System zone;
  - type of RES;
  - size of projects;
  - volume of procured capacity (MW);
  - ceiling auction price (KZT/kWh (without VAT))".
  - 2. bid proposal made by participants with all its parameters (bid price, bid making time);
- 3. the lowest price indicated in bid proposals for sale (without indication of volumes of installed capacity of other participants).

2. When you click on the "Select a project and make a bid" button the System will show the interface of bid making (Figure 28).

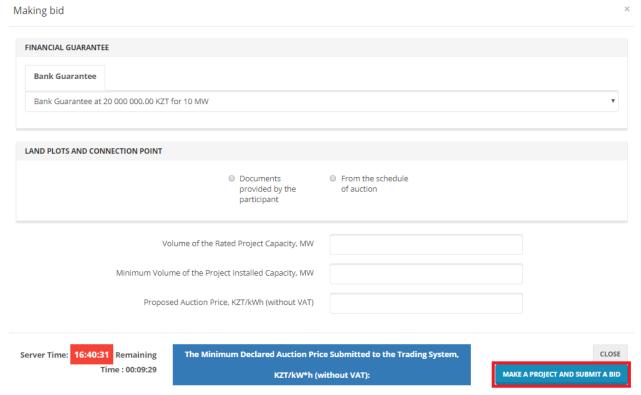


Figure 28. Interface "Submission of bid" of auction without documentation

Interface of "Bid making" contains the following elements:

1) Field "Financial security." Type – text. Editable. In a field by selecting values from the drop-down list, you can enter type of financial security provided by participant for participation in the auction (bank guarantee, letter of credit).

Auctions participant can choose only one type of financial security for each bid.

2) Field "Land plot and connection point". Type – checkbox. Editable. The participant may select which land plot will be used to participate in the auction without documentation in the field "Documents provided by the participant" or "From schedule of auction" by filling the checkbox.

If the auctions participant have land plot and connection point for construction of RES facility yet before auction without documentation starts, It is required to set the flag on "**Documents submitted by participant**" field (Figure 29). The list of land plots and connection points will appear in the table with the information as follows:

- Column "Project location" contains information on the name of region, district and settlement, location of land;
- Column "Connection point" contains information on the name and coordinates of the substation;
- Column "Land area, ha" contains information on area of land in hectares.

LAND PLOTS AND CONNECTION POINT				
	Documents     Prom the schedule     provided by the     participant			
Land Plot	Connection Point	Land area, ha		
No results found.				

Figure 29. Interface "Submission of bid" of auction without documentation. Land plots data entry

If the auctions participant have not had land plot for construction of RES facility yet before auction starts, It is required to set the flag on **"From schedule of auction"** field (Figure 28). The list of land plots and connection points will appear in the table with the information as follows (Figure 30):

- Column "**Region**" contains information on region of the Republic of Kazakhstan;
- Column "**District**" contains information on district of land plot situation;
- Column "Location" contains information on settlement of land plot situation;
- Column "Land area, ha" contains information on area of land in hectares;
- Column "Land category" contains information on situation of land (coordinates of site, category of land);
- Column "Power Transmission Organization" contains information on name of the power transmission organization;
- Column "**Region**" contains information on region of the Republic of Kazakhstan;
- Column "**District**" contains information on district of connection point situation;
- Column "PTL" contains information on PTL name of connection point;
- Column "Name and Coordinates of Substation" contains information on name of the substation and its coordinates;
- Column "Buses" contains information on voltage of the connection point (in kV);
- Column "Limitation on the connected capacity (maximum permissible volume of installed capacity), MW" contains information on value of limitations volume of installed capacity (in MW);
- Column "Limitation on number of new connections" contains information on value of limitations on number of new connections.

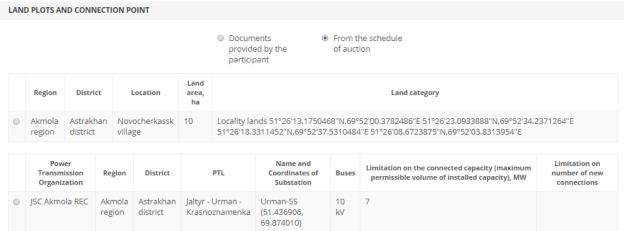


Figure 30. Interface "Submission of bid" of auction without documentation. Data entry for land plots and connection point

To select land plot and connection point from the list set the flag on selected land plot.

Attention: During bid making time, if the participant selects land plot from the field "From schedule of auction", the corresponding connection point will remain for selection of the connection point.

3) Field "Volume of project installed capacity, MW". Type – decimal number. Editable. The field should be provided with volume of project installed capacity consisting of not less than 100 kW, a multiple of one kW (in MW). A numeric value can be specified with three digits after decimal place.

**Attention:** Volume of project installed capacity should must be equal to or less than declared volume of (auction) procured capacity (Figure 31):



Figure 31. Dialog window on incorrect entry of installed capacity volume

**Attention:** Volume of project installed capacity should correspond to the amount of bid financial security based on bid cost for 1 kW. System checks this condition.

**Attention:** Volume of project installed capacity shall not exceed value of connection capacity (Figure 31).

4) Field "Minimum volume of the project installed capacity, MW". Type – number. Editable. The field should be provided with minimum volume of project installed capacity consisting of not less than 100 kW, a multiple of one kW (in MW) and with number of significant digits after decimal place of not more than 3. Minimum volume of project installed capacity is the capacity below of which the participant in technical terms is not ready to implement the project for construction of new renewable energy sources facility (Figure 21).



Figure 32. Dialog window on incorrect entry of minimum volume of project

#### installed capacity

5) Field "Proposed auction price, KZT/kWh (without VAT)". Type – number. Editable. The field should be provided with bid price in KZT per kWh without VAT and with number of significant digits after decimal place of not more than 2.

**Attention:** Bid price should not exceed the ceiling auction price.

**Attention:** Price change step is 5 tiyn/kWh (figure 33).

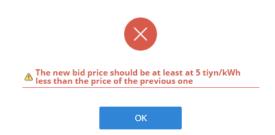


Figure 33. Dialog window on the inaccurate entry of bid price

**Attention:** Bid price should not be similar to minimum bid price submitted to the TS.

**Attention:** Bid price should not be similar to bid price of other auctions participant or of your own bid previously submitted (Figure 34).

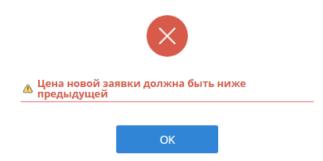


Figure 34. Dialog window on the inaccurate entry of bid price

- 6) Field "Minimum declared auction price submitted to the trading system, KZT/kWh (without VAT)". Type number. Uneditable. The field displays minimum declared auction price submitted to the TS in KZT/kWh (without VAT)".
- 7) Button "Close". Type tool for closing application submission window and return to auctions main page.
- 8) Button **"Submit a bid".** Type tool for saving data entered upon successful completion of all fields and submission of application.
- 3. After clicking the "Make a project and submit a bid" button (Figure 28) a dialog window will be opened with confirmation of accuracy of filling (Figure 35).

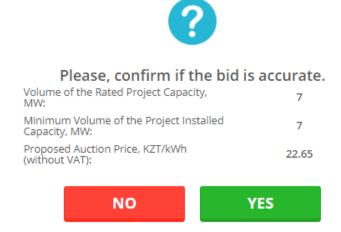


Figure 35. Dialog window on confirmation of submission

If You click **No** button, you will be returned to bid editing window.

If You click "Yes" button, the bid will be recorded in the TS database that will be confirmed with pop up dialog window (Figure 36):



Your bid no. 2/1 has been successfully submitted! You have submitted bid during consideration of bids for price changes. Trading session time has been increased

ОК

Figure 36. Dialog window confirming successful submission

4. Then click the "**OK**" button and you will go to the main auction page (Figure 37). Bid number and bid making time automatically locks after successful submission (Figure



Figure 37. Section "Auction". Interface after bid submission

5. The table "My bids" displays data on participant bids. Bid status will be changed to "Accepted" (Figure 37).

**Note:** Auctions participant may change previously submitted bid, submit a new one, but not to remove.

Financial security status will be changed to "Used" in the **''Financial security''** table (Figure 37).

6. To change previously submitted bid click on the bid making window will open with previously entered data.

When updating a previously submitted bid, auctions participant can change bid price and only towards reduction. Other fields – inactive.

## 3.4.3. Special aspects of HPP and BioPP auction

1. During the auction for selection of projects using hydrodynamic energy of water, biomass, biogas and other fuels from organic waste used for electricity production the preliminary results are summed up at the end of trading session.

If the auction participant according to the preliminary results became the winner, the window will appear as follows:

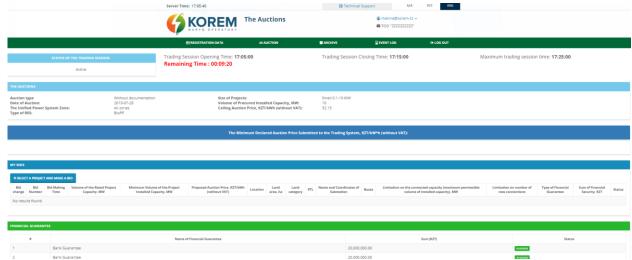


Figure 38. Section "Auction". Interface of the winner

2. For participant whose volumes are not included in the volume of purchased capacity, a dialog box will appear with proposal to implement their application at the minimum winner:



Figure 39. Section "Auction". Interface of offer.

3. When you click **«Yes»** (Figure 39), a dialog box will appear confirming your acceptance of offer (Figure 40).



Figure 40. Dialog box about confirmation of consent to proposal

If You click "Yes" button, the bid will be included in the list of winners at the winner's minimum price which will be confirmed with pop up dialog window (Figure 41):



Congratulations, You are now included in the winners list!



Figure 41. Dialog box about inclusion into the list of winners.

4. Then click the "OK" button and you will go to the main auction page (Figure 42):

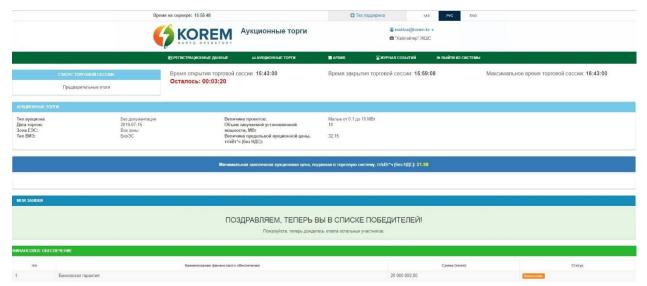


Figure 42. Section "Auction". Interface after confirmation

5. If You refuse the proposal to sell your application at the minimum auction winner price, You need to click "No" (Figure 39) and a dialog box with confirmation of answer will appear (Figure 43).



Figure 43. Dialog box about confirmation of answer

6. Then click the "Yes" button and you will go to the main auction page (Figure 44).

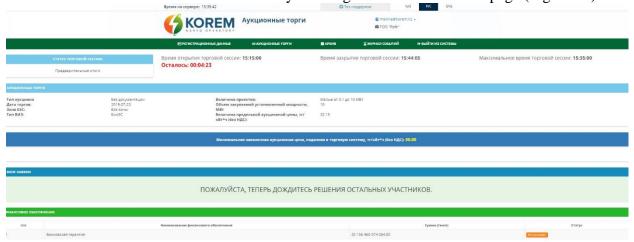


Figure 44. Section "Auction". Interface after the failure of offer

#### 3.5. Archive

1. Go to the "Archive" section. The system will show the "Archive of conducted auctions" interface with the **"Select the auctions"** field. After selecting auction for relevant date, click on the **"Show"** button (Figure 45).

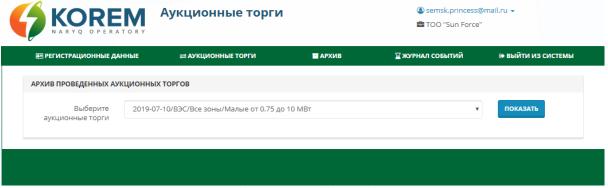


Figure 45. "Archive" section

2. The system will show an interface with detailed information on conducted auctions, on submitted bids and transactions by the auctions participant on selected auctions (Figure 46).

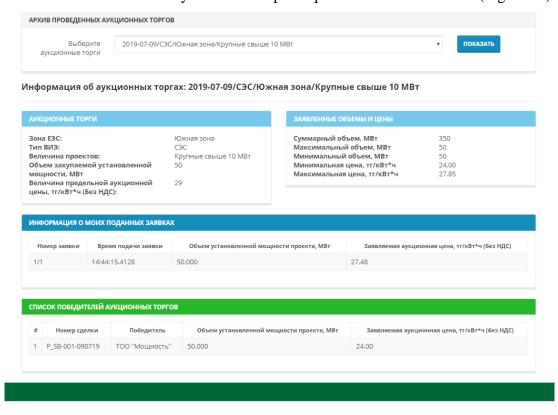


Figure 46. Interface "Information on the auction"

Interface "Information about auctions" consists of the following elements (Figure 46):

The "Auctions" dashboard contains general information on auctions in accordance with the schedule of holding of the auctions (Unified Power System zone, Type of RES, Size of projects, volume of procured installed capacity, MW, ceiling auction price, KZT/kWh (without VAT)).

"Declared volumes and prices" dashboard contains general information on bids submitted to the TS from all sellers (Total volume, MW, the Maximum volume, MW, the Minimum price, KZT/kWh, the Maximum price, KZT/kWh).

The **"Information about my bids"** table contains information on all auctions participant's bids submitted in TS for sale:

Column **''Bid number''.** Type – number. Uneditable. The field displays numbers of bids made.

Column **''Bid making time''.** Type – time. Uneditable. The field displays time of bids made.

Column "Volume of project installed capacity, MW". Type – number. Uneditable. The field displays volume of project installed capacity, MW.

Column "Minimum volume of the project installed capacity, MW". Type – number. Uneditable. The field displays minimum volume of project installed capacity, MW.

Column "**Proposed auction price, KZT/kWh (without VAT)**". Type – number. Uneditable. The field displays proposed auction price without VAT in KZT/kWh.

The "List of auction winners" table contains information on auction winners after closing trading session:

Column "**Bid number''.** Type – number. Uneditable. The field displays number of transaction.

Column "Winner". Type – text. Uneditable. The field displays name of winner company.

Column "Volume of project installed capacity, MW". Type – number. Uneditable. The field displays volume of project installed capacity, MW.

Column "**Proposed auction price, KZT/kWh (without VAT)**". Type – number. Uneditable. The field displays proposed auction price without VAT in KZT/kWh.

## 3.6. Event log

1. Go to "Event log". The system will show an interface to view information on all actions of auctions participant and notification on auction results (Figure 47):

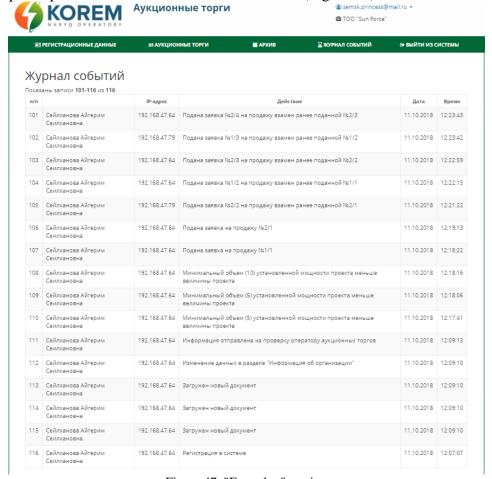


Figure 47. "Event log" section

Interface contains "Event log" table with the following elements:

Column "User". Type – text. Uneditable. The field displays the user name.

Column **"IP address"**. Type – text. Uneditable. The field displays the IP address of the user.

Column **''Action''**. Type – text. Uneditable. The field displays description of event made by the user.

Column "**Date**". Type – date. Uneditable. The field displays event date.

Column "Time". Type – time. Uneditable. The field displays **event time**.

## 3.7. User profile

1. Hover over your username (user email address) and click on the **"My profile"** link. The system will show an interface for viewing and editing data in the user profile (Figure 48).

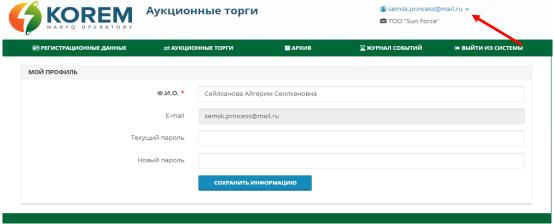


Figure 48. Interface "My profile"

2. Click "Save form" after editing the information (Figure 49). The system will save changes made.

Interface of "My profile" contains the following elements:

Field "Full name". Type – text. Editable. The field should be provided with user name.

Field "E-mail". Type – text. Uneditable. The field displays e-mail address of the user.

Field "Current password". Type – text. Editable. The field should be provided with current password of the user.

Field "New password". Type – text. Editable. The field should be provided with new password of the user.

Button "Save information" is a tool for saving the data entered.

3. To log out the System, hover over the user name (email address) and click on the **"Log out"** link . Or click on the **"Log out"** section (Figure 29). The system will automatically direct You to the trading system home page.

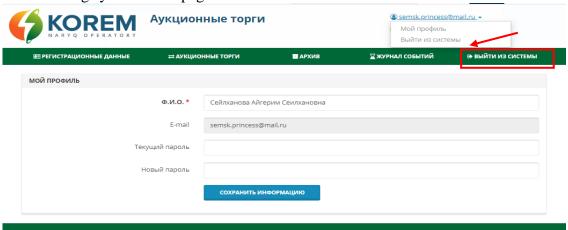


Figure 48. Log out

## 4. EMERGENCY

In the event of errors during work with JSC KOREM TS, contact technical support staff (Call-center of auctions operator).

To contact technical support staff, click on <u>"Technical support"</u> link at the top of the page, where phone numbers and e-mail addresses of auctions operators are shown.

In such case provide as full as possible information about the problem, what actions were performed before the problem occurred, what messages were displayed. You also need make screenshot showing errors occurred and send by e-mail.

The list of possible errors is given in Annex 1.

- 1. The auctions may be suspended for a period of up to 30 minutes in the event of the following circumstances:
  - 1) technical problems on server hardware or failures in electronic system led to malfunction of the trading system;
  - 2) technical problems of hardware or Internet data lines led to impossibility of access to the trading system.
- 2. Upon suspension of auction the Organizer via available technical means of communication will promptly inform You on cause of auction suspension indicating timeframes whithin of which auctions process will be restored.

In case of auction suspension the trading session's "Open" status will be switched to "Suspended" status. "My bids" window will show the "Auctions have been interrupted for technical issues" message to all participants. The auctions suspension countdown timer will start up.

- 3. Auctions may be canceled in the event of the following circumstances:
  - troubleshooting takes more than 30 minutes;
  - sustained (over two hours) interruption in electricity supply of trading room and (or) server hardware of the trading system;
- prohibition on holding of auctions on the part of public authorities and management;
- other non-standard situations that lead to failure of the trading system or failure of auction holding.
- 4. In case of cancellation of auctions without documentation, the second auction is transferred on the next working day and are held from 9.00 am to 12.00 am by Nur-Sultan time after auction cancellation date. In this case, bids submitted by the participants will be void and resubmitted on the next day of the auction.
- 5. In case the auction with documentation is declared not taken place for the reasons specified in paragraph 51 of these Rules, the Organizer carries out them again in a month.

At the same time, if the repeated auction with documentation is declared to be void, the authorized body shall determine the date of the next auction.

# 5. RECOMMENDATIONS ON LEARNING

For complete understanding of the system, it is recommended to see the documentation on holding auctions and documentation describing renewable energy sources projects.

## 6. ABBREVIATIONS AND CONTRACTIONS

JSC Joint-stock company
BIC Bank identification code

BIN Business identification number

BioPP Biopower plant

RES Renewable energy sources

WPP Wind power plant
HPP Hydropower plant
UPS Unified Power System
PTL Power transmission line

VAT Value added tax PC Personal computer

RK The Republic of Kazakhstan

SPP Solar power plant TS Trading system

JSC KOREM TS The system of "Auctions holding"

JSC KOREM

Full name Last name, first name, patronymic

FLC Format-logical control

System message

During Subsystem operation, the messages are shown contained in the table:

Error	Description of the error	Required actions
The server was not found. The page cannot be displayed	Possibly you have problems with network or with access to the system	Restart the browser. If nothing helps, contact technical support service
You should fill the "Login" in	During signing up in the system you did not enter user name	Enter the user name
You should fill the "Password" in	During signing up in the system you did not enter the password	Enter the password
Incorrect username or password	You've entered incorrect user name or password, or this account is not registered	Reenter the user name and password. If your account disabled, contact technical support service
You should fill the <> field in	<> fields are not filled in	Fill in all mandatory fields (highlighted in red)
Failure of workstation electricity	Either workstation was shut down or rebooted	Restart the workstation
Network failure	No network communication available between the workstation and application server	Restart the workstation. Check the server availability