



TENDER DOCUMENTATION FOR THE PREPARATION OF TENDERS

Overhaul service of firing and combustion system of Unit 6

TECHNICAL PART

Šoštanj, January 2023

OVERHAUL SERVICE OF THE PULVERISED COAL FIRING SYSTEM – LOT 23

➤ INTRODUCTION

The boiler of Unit 6 is equipped with 8 pulverisation mills with a capacity of 79 tonnes per hour. Out of these 8 mills, 7 suffice for the Unit to operate at its full capacity.

The pulverisation mills transform the coal into combustible coal powder and transport it to the fire-box. During this process, the coal is dried and crushed. In the upper section of the fire-box (elevation of 52 m), hot flue gases are sucked in which, immediately after entering the return suction duct, are then mixed with hot air and cold flue gases of recirculation system. At an elevation of 52 m, there are what are known to be suction heads with a sealing system preventing the entry of uncontrolled air, enabling a usual movement of the boiler. The secondary, primary and additional over fire air system supplies the air required for the combustion of coal. The coal conveyors transport the coal to the pulverisation mills where it is crushed into fine coal powder which is then introduced to the fire-box through coal dust ducts and burners.

➤ *Technical description*

The pulverisation mills have a separate belt drive for the prebeater. The diameter of small pulleys corresponds to Ø280 mm, while the diameter of large pulleys corresponds to Ø1000 mm. The transmission system is made of eight (8) belts. Attached hereto is a drawing of the primary crusher illustrating the belt drive.

The free-fall shafts through which the coal transported via conveyor belts is introduced to the mills are exposed to abrasion. The latter affects the bottom and side parts, in particular. At the bottom, slats made of 50Mn7 steel are installed, 50 mm in thickness. At the side of the shafts, additional sheet metal plates have been welded on which need to be replaced.

➤ *Technical specification of services to be provided*

- Inspecting and replacing, if necessary, the large pulleys (including bushings) of the primary crusher; quantity: 8 pcs.
- Inspecting and replacing small pulleys of the primary crusher; quantity: 8 pcs.
- Replacing the belts of the primary crusher; quantity: 8 × 8 belts. After they have been replaced, the belts need to be tensioned under the established protocol (in cooperation with an expert from TEŠ).
- Repairing the free-fall shafts in front of the mills by replacing the slats at the bottom and protective side sheet metal plates. The latter shall be done by cutting out the worn-out metal and incorporating new one. Surfaces worn out to a lesser extent shall be repaired using the surfacing technique; quantity: 8 shafts.
- Inspecting and repairing cold air dampers; quantity: 8 pcs.
- Inspecting and repairing the gates and the gate drives of the mill screens.

- NDT inspection of levers of primary crushers of pulverisation mills 1–8 (06HFC10-80). An arbitrary inspection of 2 out of 8 levers shall be carried out for each prebeater of the pulverisation mill. Replacement of levers in the 2nd row is envisaged. If any cracks or damages are identified on the rest of the levers, these should be replaced, too.
- Inspecting the couplings and replacing the rubber plugs.
- Inspecting the alignment of the couplings connecting the mill and double bearing as well as those connecting the double bearing and fluid coupling.
- Inspecting the clearance of double bearings.
- Inspecting the clearance of labyrinth seals of the rotor double bearings.
- Inspecting the sealing of the rotor double bearing covers.
- Replacing the faulty cooling water flow indicators;
- Rectifying the leakage of the oil filters;
- Cleaning the outlets of the VOITH double bearings and fluid couplings.
- Inspecting the alignment of the teeth and toothings of the VOITH fluid couplings.
- The tenderer also has to provide other unforeseen work that cannot be performed during the operation of the plant and is identified as necessary during the inspection and uninstallation of individual components.

➤ *Other*

The tenderer must provide:

- lighting;
- welding equipment;
- work platforms (scaffolds);
- other tools necessary for the provision of services,
- consumables and filling material.

Other necessary material shall be provided by TEŠ (pulleys, belts, bushings, sheet metal).

➤ *Employer's special requirements*

- The tenderer shall be obliged to draw up a detailed time schedule for the provision of services. Before its final confirmation, the schedule shall be coordinated with other activities taking place at the plant. The schedule is not the subject of the tender and shall be drawn up after the contract has been signed.
- The tender price shall be evaluated as the total value of the transaction.
- The tenderer must also have their own equipment for the provision of the services at the plant.
- Once the services will have been completed, the tenderer must submit a record on the provided services to the Employer.
- As for the provision of welding services, the tenderer shall be certified under standard SIST EN 384/3.

- In addition, the tenderer shall also have experience in maintenance of coal pulverisers or drive units of large power plant facilities.
- The tenderer and potential subcontractor must submit at least one (1) reference in the area of providing maintenance work on drive units of coal pulverisers or one (1) reference in the area of providing maintenance work on drive assemblies of large power plants with such work encompassing drive units (couplings, bearings, reduction gear, belt-driven drives...). The references shall refer to the projects implemented in the last five years in the amount of at least EUR 50,000.00 (exclusive VAT).

➤ *Time schedule*

The service is to be provided from 26 April 2025 to 20 June 2025.

➤ *Performance bonds*

A 15-month performance bond is required starting as of the date of re-commissioning of Unit 6.

➤ *Appendices*

- Appendix STJ06B-----00370BQ033_04.PDF,
- Drawing STJ06B-----00370DD033_04.PDF,
- Appendix 148425_00350_2001_00_en.pdf
- Drawing 148425_00350_0001_03.pdf

INSPECTION OF DAMPERS AND DUCTS OF THE PULVERISED COAL FIRING AND AIR SYSTEM AND THE OIL BURNER SYSTEM – LOT 24

➤ *INTRODUCTION*

Air dampers are used to regulate the amount of air necessary for the combustion of coal in the boiler. They are divided into primary dampers, secondary dampers and OFA (over fire air) dampers. At the start-up of the Unit with the oil-firing system, the air required for the combustion of coal is regulated via oil burner dampers.

The pulverised coal system is equipped with the coal powder dampers which are exposed to wear owing to the transport of coal.

➤ *Technical description*

While the Unit is in operation, the dampers function all the time as they ensure regulation. Therefore, certain parts thereof are exposed to wear and tear (bearings, bushings, sheet metal, seals...). All dampers must be inspected for potential wear and tear and must be repaired using the surfacing welding technique or replaced, depending on the gravity of wear and tear. This shall be done in cooperation with the firing and combustion system engineer. The functioning

of the dampers has to be checked and their end positions must be set in cooperation with the maintenance department.

➤ ***Technical specification of services to be provided***

- Inspecting the functioning and setting the positions of the dampers of the primary, secondary and over fire air system; rectifying defects of non-functioning dampers (as per the list of dampers marked under the KKS coding system); all dampers must be lubricated;
- Repairing damaged compensators based on the identified condition of the ducts of primary, secondary and over fire air system;
- Repairing leaking ducts by partial replacement of sheet metal or by surfacing welding technique;
- Inspecting the functioning of and repairing, if necessary, the worn-out coal powder dampers of the mills; the repair shall be done by using the surfacing welding technique;
- Inspecting the coal dust ducts and pulverised coal burners of the mills and repairing them by using the surfacing welding technique;
- Inspecting the pulverised coal burners inside the boiler, replacing damaged air ducts as well as replacing and repairing deformed metal;
- Inspecting the supports of pulverised coal burners at an elevation of +20 m and +24 m and rectifying identified shortcomings;
- An inspection of the light fuel oil system from the LFO tank, pumping station to oil burners, and rectification of potential leaks or identified shortcomings;
- Replacing control valves DN 32/PN100 KVAZ (8 pcs), DN 32/PN100 KVAZ/S (8 pcs) DN25/PN100 (16 pcs);
- Replacing the seals of the duct inlets;
- Inspecting the sealing of the suction heads of the mills and replacing them, if necessary;
- Inspecting the suction head scrubbing system;
- The tenderer also has to provide other unforeseen work that cannot be performed during the operation of the plant and is identified as necessary during the inspection and uninstallation of individual components.

➤ ***Other***

The tenderer must provide:

- lighting;
- welding equipment;
- work platforms (scaffolds);

- other tools necessary for the provision of services,
- consumables and filling material.

Other necessary material shall be provided by TEŠ.

➤ ***Employer's special requirements***

- The tenderer shall be obliged to draw up a detailed time schedule for the provision of services. Before its final confirmation, the schedule shall be coordinated with other activities taking place at the plant. The schedule is not the subject of the tender and shall be drawn up after the contract has been signed.
- The tender price shall be evaluated as the total value of the transaction.
- The tenderer must also have their own equipment for the provision of the services at the plant.
- Once the services will have been completed, the tenderer must submit a record on the provided services to the Employer.
- As for the provision of welding services, the tenderer shall be certified under standard SIST EN 384/3.
- In addition, the tenderer shall also have experience in maintenance of power plant facilities.
- The tenderer and potential subcontractor must submit at least one reference in the area of providing maintenance work on dampers and ducts or one reference in the area of providing maintenance work on the pulverised fuel firing system of power plants. The references shall refer to the projects implemented in the last five years in the amount of at least EUR 50,000.00 (exclusive VAT).

➤ ***Time schedule***

The service is to be provided from 26 April 2025 to 20 June 2025.

➤ ***Performance bonds***

A 15-month performance bond is required starting as of the date of re-commissioning of Unit 6.

➤ ***Appendices***

- spisak loput po KKS oznakah.docx,
- P&ID shema STJ-06-B-HF---12014-FD-023_00-P & ID Coal Burner-14-07-2010.pdf.

OVERHAUL SERVICE OF COAL CONVEYORS – LOT 25

➤ INTRODUCTION

For an unhindered transport of coal to the pulverisation mills, there are 16 trough chain conveyors and 10 belt conveyors installed at Unit 6. Owing to the operating conditions, certain conveyor components are subject to wear and tear and need to be replaced periodically. Most of these parts are replaced during the scheduled maintenance cycles.

➤ Technical description

Technical data:

Lengths of belt conveyors (10 in total):

1. 06HFB13/83 14351 mm
 Length of rubber belt conveyor (width 800 mm) L= 34 m
2. 06HFB23/73 28607mm
 Length of rubber belt conveyor (width 800 mm) L= 34 m
3. 06HFB33/63 48375 mm
 Length of rubber belt conveyor (width 800 mm) L= 103 m
4. 06HFB43/53 57487 mm
 Length of rubber belt conveyor (width 800 mm) L= 121 m
5. 06HFB44/54 19031 mm
 Length of rubber belt conveyor (width 800 mm) L= 43 m

Lengths of trough chain conveyors (16 in total):

- | | |
|----------------------|---------|
| 1. 06HFB 11/12/81/82 | 5097 mm |
| 2. 06HFB 21/22/71/72 | 5274 mm |
| 3. 06HFB 31/32/61/62 | 5097 mm |
| 4. 06HFB 41/42/51/52 | 6097 mm |

➤ *Technical specification of services to be provided*

1. Anticipated volume of services on belt conveyors :

- Trimming rubber belts, if necessary;
- Replacing the rubber belt, based on the assessed condition;
- Inspecting drive and return drums including the bearing assembly and replacing worn-out drums;
- Inspecting bearings and replacing them, if necessary (all bearings are to be lubricated);
- Replacing worn-out conveyor rollers;
- Replacing damaged compensators of free-fall shafts above the conveyor belts and replacing the protective metal;
- Replacing the cleaning chain and sprockets of all conveyor belts; quantity: 10 sets
- Replacing worn-out scrapers;
- Measuring the thickness of the sheet metal at the bottom of conveyors and replacing the worn-out metal;
- Inspecting and setting the rubber belt scrapers, replacing the worn-out ones;
- Replacing oil in the drives;
- The tenderer also has to provide other unforeseen work that cannot be performed during the operation of the plant and is identified as necessary during the inspection and uninstallation of individual components.

2. Anticipated volume of services on cleated conveyors:

- Replacing chains on all cleated conveyors, including drive and return sprockets; quantity: 16 sets;
- Replacing worn-out scrapers;

- Measuring the thickness of sheet metal where the coal transport takes place, and of the frame of conveyors and replacing the worn-out sheet metal. To mount the sheet metal, openings with a diameter of Ø 16.5 mm have to be drilled; Cutting of sheet metal takes place at the shop at TEŠ; quantity: 16 sets;
- Cutting of and replacing the worn-out sheet metal at the bottom part of conveyors; quantity: 16 sets;
- Replacing the steel wear plate (wear lining); material 50Mn7, 60 x 30 mm,
- Inspecting bearings and replacing them, if necessary (all bearings are to be lubricated);
- Inspecting the functioning of the slide gates under the coal towers; quantity: 16 pcs.
- Renewing the sheet metal to regulate the coal layer height;
- Replacing oil in the drives;
- The tenderer also has to provide other unforeseen work that cannot be performed during the operation of the plant and is identified as necessary during the inspection and uninstallation of individual components.

3. Worn-out material must be disposed in containers to this aim.

➤ *Other*

The tenderer must provide:

- lighting;
- welding equipment;
- work platforms (scaffolds);
- other tools necessary for the provision of services,
- fastening material, consumables and filling material.

Other necessary material shall be provided by TEŠ.

➤ *Employer's special requirements*

- The tenderer shall be obliged to draw up a detailed time schedule for the provision of services. Before its final confirmation, the schedule shall be coordinated with other activities taking place at the plant. The schedule is not the subject of the tender and shall be drawn up after the contract has been signed.
- The tender price shall be evaluated as the total value of the transaction.
- The tenderer must also have their own equipment for the provision of the services at the plant.
- Once the services will have been completed, the tenderer must submit a record on the provided services to the Employer.
- As for the provision of welding services, the tenderer shall be certified under standard SIST EN 3834/3.
- In addition, the tenderer shall also have experience in maintenance of coal conveyors and in work on reduction drives of conveyors.
- The tenderer and potential subcontractor must submit at least one reference in the area of providing maintenance work on coal transport conveyors. The reference shall refer to the projects implemented in the last five years in the amount of at least EUR 50,000.00 (exclusive VAT).

➤ *Time schedule*

The service is to be provided from 26 April 2025 to 20 June 2025.

➤ *Performance bonds*

A 15-month performance bond is required starting as of the date of re-commissioning of Unit 6.

➤ *Appendices*

- A drawing “Conveyor belt”;
- A drawing “Layout of conveyors in the boiling room”;
- A drawing “Cleated conveyor”.

DISASSEMBLY, PREPARATION OF THE CHAIN SEGMENTS AND ASSEMBLY OF THE FIRING GRATE SEGMENTS – LOT 26

➤ INTRODUCTION

When coal is burned in the boiler, the resulting slag falls onto the travelling grates situated beneath the boiler hopper, where the slag undergoes further combustion as it descends over the hoppers and slag crusher into the submerged scraper conveyor (SSC). The travelling grates operate continuously throughout the operation of the Unit. The speed of their movement is regulated according to the quantity of the slag. Owing to wear on the components of the chain, complete pre-assembled chain replacements are carried out during scheduled maintenance intervals. For the ease of disassembly and assembly, the work is carried out by segments. Certain parts of segments may be used for the next overhaul service.

➤ Technical requirements

The parts of the grates manufactured during the 2021 overhaul need to be disassembled and sorted into steel containers.

- Segment dimensions: 2000 x 2500 mm
- Number of segments: 14
- Quantities by positions (see drawing “Grate belt arrangement”):

Once all assembly parts are supplied, the segments to be installed in the 2025 overhaul need to be assembled.

1. Parts required for the assembly of the segments:

Position 4:

Firebar crossbearer M2 7/202

Material: EN-GJMW-400-5

Qty 203 pcs

Position 5:

Firebar crossbearer M1 7/202

Material: EN-GJMW-400-5

Qty 809 pcs

Position 6:

Roller 60/31 - 355

Material: GG 25

Quantity: 1212 pcs

Position 7:

Space bar 24

Material: 24CrMo5

Qty 203 pcs

Position 8;

Spacer tube 30x2,5

Material: St55

Qty 1212 pcs

Position 9:

Stinner nut 24

Material: 24CrMo5

Qty 405 pcs

Position 10:

Stinner ring M24

Material: 24CrMo5

Qty 405 pcs

Position 11:

Thrust washer 20 x 5

Material: St 60-2K

Quantity: 405 pcs

Position 12:

Plate link chain 25/21 x 203 (length 20,503.00 mm)

Material: 24CrMo5

Qty 14 pcs

Note: dimension of one piece (item 1201-Plate link chain 25/21 x 203 =10,150.00 mm, item: 1202-Plate link chain 25/21x203 = 10,353.00 mm)

Position 13:

Bolt 20h11x55x45

Material: 25CrMo4

Qty 1414 pcs

Position 14:

Split pin 5x32

Material: X5CrNi18-10

Quantity: 1414 pcs

Position 15:

Spring washer 21x3

Material: SM (B acc. DIN 17223)

Quantity: 8484 pcs

Requirements to be fulfilled in the assembly of the segments:

- It is mandatory to sandblast all bars (position 7, quantity: 203 pieces).
- All bushings need to be pressed out from the chain (position 12), damaged parts of the chain separated and removed from the rest.
- All worn and unusable parts must be collected in a separate container with the number of unfit parts being recorded by positions.

2. It is anticipated the work will take approx. 50 working days and will require 4 workers (with an 8-hour work day). A total of 1600 hours.

➤ *Additional clarifications*

The tenderer must provide:

- all tools necessary for the performance of works;
- consumables and filling material;
- containers;
- work counters;
- other works necessary for the provision of the service.

When the work has been completed:

- The tenderer is obliged to submit a report on the provided services to the Employer or a record of works performed, once the service has been completed.

➤ *Employer's special requirements*

- The tenderer and potential subcontractor must submit at least one (1) reference of providing maintenance work in the assembly and disassembly of firing grate chain segments or one (1) reference of providing maintenance works on combustion system in power plants. The references shall refer to the project implemented in the last five years in the amount of at least EUR 50,000.00 (exclusive VAT).

➤ *Schedule of Works*

The service is to be provided till 28 March 2025.

➤ *Appendices (drawings)*

- drawing STJ06BHBB--00454DD070_00
- specification STJ06BHBB1100454MD070_01-1
- specification STJ06BHBB1100454MD070_01-2
- specification STJ06BHBB1100454MD070_01-3
- specification STJ06BHBB1100454MD070_01-4

OVERHAUL SERVICE OF THE FIRING GRATE, SUBMERGED SCRAPER CONVEYOR (SSC) AND SLAG CRUSHER - LOT 27

➤ *INTRODUCTION*

In May and June 2025, the overhaul service of Unit 6 is to take place. For the following 4-year operation period (until the next scheduled overhaul service) of the combustion system, the works as per the technical specification are to be carried out.

➤ *Technical requirements*

1. Anticipated volume of work on the firing grates:

- Replacing the bearings, including bearing housings, on the drive and return sides (split bearings); quantity: 8 pieces.
- Disassembly of the chain on both firing grates; quantity: 2 sets.
- Inspecting the compensator between the boiler hopper and firing grate, and replacing it;
- Replacement of protective pieces of sheet metal (sicromal) between the combustion grate and the boiler and replacement of the fixing flat steel; quantity: 200 pieces.
- Replacing track wheels on the return side of the firing grates; quantity: 14 pieces.
- Replacing the sprockets on the drive side of the firing grates; quantity: 14 pieces.
- Replacing the worn-out track along the entire length of both firing grates (slatted steel 100 × 50 mm); making threaded openings based on a disassembled sample; quantity: approx. 40 m.
- Replacing damaged track supports;
- Replacing worn-out endpieces; quantity: 168 pieces.
- Replacing the worn-out mangalloy plate after the chain of the firing grates at the bottom had been disassembled (above the hoppers); quantity: approx. 100 m.
- Repairing pneumatic dampers beneath the firing grates; once they are repaired, the stroke test needs to be performed; quantity: 14 pieces.
- Inspecting the operation of firing grate cooling dampers and rectification of shortcomings. If necessary, replacing the worn-out parts using the surfacing welding technique, and replacing the sealing.
- Installing the new assembled chain of both firing grates; inserting the grate plates; quantity: 14 segments (2000 × 2500 mm).
- Replacing oil in hydraulic drives;
- Replacing the worn-out sheet metal (after a D-meter inspection has been completed) of hoppers beneath the firing grates.

- Inspecting the 06HHB dampers and rectifying identified shortcomings.
- The tenderer also has to provide other unforeseen work that cannot be performed during the operation of the plant and is identified as necessary during the inspection and uninstallation of individual components.

2. Anticipated volume of work on the submerged scraper conveyor (SSC):

- Inspecting the ceramic lining of the SSC.
- Replacing the chain of SSC; quantity: 174 m.
- Replacing the drivers and renewing disassembled drivers; quantity: 62 pieces. Disassembled drivers need to be renewed by welding on new friction plates (pos. 105) on both sides and Hardox 300 steel plate of the following dimensions: 30 x 30 x 1750 mm (načrt MITNEMER - 01 B6-Model.pdf),.
- Replacing drive gears; quantity: 2 pieces.
- Replacing friction linings at the bottom of SSC; quantity: 85 m (appendix: načrt Oilon Letve 00673DD042.pdf),
- Renewing the hopper after the SSC. The lining plates of the hopper need to be replaced and the worn-out sheet metal of the same needs to be replaced, if necessary.
- Performing a D-meter inspection of the bottom and replacing the worn-out sheet metal, if necessary.
- Replacing the bearings, including bearing housings (split bearings) and oil in the drive unit; quantity: 2 pieces.
- Replacing track wheels in the SSC gate; quantity: 4 pieces.
- Replacing turning wheels; quantity: 4 pieces.
- Replacing the bearings in turning wheels; quantity: 4 pieces.
- The tenderer also has to provide other unforeseen work that cannot be performed during the operation of the plant and is identified as necessary during the inspection and uninstallation of individual components.

3. Anticipated volume of work on the slag crusher:

- Replacing in full the housing of the slag crusher; quantity: 1 piece – Appendix: Drobilec zindre STJ06BHBB--00676MM021_00,
- Replacing the slide gates; quantity 2 pieces – Appendix Slide gate valve assembly (00454DD220_01.TIF),
- Replacing hydraulic cylinders; quantity: 2 pieces.
- Replacing guiding rods with bushings; quantity: 2 pieces.
- Replacing in full the hopper beneath the firing grate, if necessary – Appendix: načrt Ash and slag hopper assembly (00454DD200_00.pdf),
- Inspecting the operation of the hydraulic station, replacing filters, replacing and

- filtering the oil, cooperating with the service engineer.
4. Worn-out material must be disposed in containers to this aim.
5. It is anticipated the work will take approx. 50 working days and will require 14 workers (with a 10-hour work day). A total of 7000 hours.

➤ *Additional clarifications*

The tenderer must provide:

- lighting;
- welding equipment;
- work platforms (scaffolds);
- other tools necessary for the performance of work,
- fastening material, consumables and filling material.

➤ *Employer's special requirements*

- The Contractor shall be obliged to draw up a detailed time schedule for the performance of works. Before its final confirmation, the schedule shall be coordinated with other activities taking place at the plant. The schedule is not the subject of the tender and shall be drawn up after the contract has been signed.
- The tender price shall be evaluated as the total value of the transaction.
- The Contractor must have their own equipment for the performance of works at the plant.
- The Contractor is obliged to regularly submit records on the provided services to the Employer.
- As for the provision of welding services, the Contractor shall be certified under standard SIST EN 3834/3.
- The tenderer and potential subcontractor must submit at least one (1) reference in the area of providing maintenance work on firing grates and combustion systems equipment at power plants. The reference shall refer to the projects implemented in the last five years in the amount of at least EUR 50,000.00 (exclusive VAT).

➤ *Schedule of Works*

The service is to be provided from 26 April 2025 to 20 June 2025.

➤ *Performance bonds*

A 24-month performance bond is required starting as of the date of re-commissioning of Unit 6.

➤ *Appendices*

- Drawing of the firing grate
- Drawing of the slag crusher set
- Drawing of the SSC
- Načrt št.148315-00454-0008-00.pdf
- Načrt Oilon Letve 00673DD042.pdf
- načrt MITNEMER - 01 B6-Model.pdf
- načrt 148315-00454-0020-00.pdf
- načrt STJ06B-----00454DD021_00.pdf
- načrt STJ06B-----00454DD030_00.pdf
- načrt STJ06BHBB--00454DD200_00.pdf

PROVIDING THE SEALING OF THE PULVERISED BURNERS OF THE MILLS AT UNIT 6 - LOT 28

➤ *Introduction*

Unit 6 has eight (8) pulverisation mills which, after the coal is pulverised, transport the fine coal powder into the boiler. This is done via the pulverised coal burners. The sealing of the pulverised coal burners is made without a sealant. During the 2025 overhaul service, the steam scrubbers of the pulverised burners are to be installed. Based on the experience in scrubbing the suction heads where the sealing similar to that of pulverised burners has been provided, the sealing with a sealant will have to be provided.

➤ *Technical requirements*

Input data:

1. Pulverised burners are located at two levels at an elevation of +21 m to 28 m.
2. Blowing steam parameters are as follows: T=280°C to 300°C and pressure=27bars.
3. Temperature of flue gas in the area of pulverised coal burners shall be approx. 900°C.

4. The boiler's vertical movement (in both hot and cold regime) at an elevation of +24 m accounts for approx. 350–380mm.
5. The material required for the sealing, except for the sealant, shall be provided by the tenderer.
6. The scaffolding shall also be provided by the tenderer.

➤ *Technical implementation*

1. Technical documentation must be drawn up based on the submitted drawings and the actual state and inspection of the sealing of the suction heads.
2. A time schedule of works must be prepared, with all key activities included (preparation of technical documentation, machining and preparing the sealant supports, scaffolding, disassembly of sealing sheet metal and installing the sealing). The schedule is not the subject of the tender and shall be drawn up after the contract has been signed.
3. The sealing must be provided in such a manner that it ensures perfect tightness despite the vertical and horizontal movement of the boiler and the operation of the pulverised coal burners. This is achieved by adjusting the tension of the spring pressing against the sealant with dimensions 60 × 60 mm.
4. For each of the eight (8) pulverised coal burners dimensions have to be measured during the hot regime as they differ among themselves. These dimensions then need to be taken into account when the installation during the cold regime takes place (when Unit 6 is shut down).
5. The existing sealing sheet metal needs to be disassembled before the sealing is installed.
6. Work platforms (scaffolds) shall be mounted in such a manner they do not interfere with the vertical movement of the boiler (approx. three days after the fire has been extinguished, the boiler cools down and contracts).
7. Certain preparatory and mounting works can be performed before the Unit 6 is shut down.

➤ *Tenderer's qualifications and references*

- Before they submit their tenders, tenderers must make a tour of the plant. The certificate of attendance is an integral part of the tender.
- Required standards: EN 1090-1; EN 3834-2.

➤ *References*

- The tenderer must attach to their tender at least one certified reference evidencing they performed the sealing or repaired the sealing at a power plant in the last six years.

➤ *Test trial:*

After the service has been completed, i.e., upon the re-commissioning of Unit 6, the presence of the tenderer's metal workers is required to immediately rectify any identified irregularities that might occur on the sealing system owing to the expansion of the boiler.

The steam scrubbers of pulverised coal burners must be tested in order to verify the performance of the sealing.

➤ *Warranties*

In the event of identified defects in workmanship, the tenderer must immediately rectify any such defects. The cost of rectifying the identified shortcomings shall be borne by the tenderer.

The defect liability warranty guaranteeing the flawless supply and installation of the sealing on the pulverised coal burners of the mills at Unit 6 shall be valid at least one (1) year following the installation.

➤ *Quality control and method of attesting the quality of installation procedure*

After the installation, the scrubbing of pulverised coal burners test is performed, the tightness is verified, and a quality acceptance is performed.

➤ *Delivery*

The supply and installation of sealing system on the pulverised coal burners of the mills at Unit 6 shall be performed from 26 April 2025 to 20 June 2025. Certain preparatory works may also be performed earlier during the scheduled 9-day shutdowns of Unit 6.

➤ *Appendices*

- drawing 148315_00338_0010_00
- drawing 148315_00338_0020_01
- drawing 148315_00338_0050_00
- drawing "Člen"
- drawing Suction heads sealing.