

TECHNICAL PART OF DOCUMENTATION

**UNIT 6 OVERHAUL SERVICE
(Lots 32 to 51)**

Done at Šoštanj, May 2022

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1 GENERAL

In 2025, a regular overhaul of Unit 6 is envisaged in spring/summer time. To secure successful and timely implementation of all envisaged maintenance and repair works, the Employer hereby launches the call for tenders under which they will order services covering various areas of Unit 6. The call for tenders has been divided into lots. Each interested tenderer may submit their application/tender for one or more lots.

The lots for services to be ordered are listed in the table hereinafter:

Lot	Lot name
32.	Overhaul service for Unit 6 – repair of the boiler core unit and associated pipelines
33.	Overhaul service for Unit 6 – repair of fittings, hangers and pumps
34.	Overhaul service for Unit 6 – heat insulation
35.	Overhaul service for Unit 6 – welding services
36.	Overhaul service for Unit 6 – machining, turning
37.	Overhaul service for Unit 6 – inspection of combustion system drive assembly
38.	Overhaul service for Unit 6 – inspection of ID and FD fans
39.	Overhaul service for Unit 6 – inspection of recirculation fans
40.	Overhaul service for Unit 6 – inspection of RAPH
41.	Overhaul service for Unit 6 – replacement of DENOX catalyst elements
42.	Overhaul service for Unit 6 – inspection of ducts and dampers on flue gas and air ducting system
43.	Overhaul service for Unit 6 – repair of mixer plates in flue gas ducting system
44.	Overhaul service for Unit 6 – inspection of equipment on FGD6
46.	Overhaul service for Unit 6 – overhaul of boiler feedwater pumps
47.	Overhaul service for Unit 6 – overhaul of feedwater pumps Vorecon gear
48.	Overhaul service for Unit 6 – overhaul of steam-water system
49.	Overhaul service for Unit 6 – inspection of side product handling system
50.	Overhaul service for Unit 6 – scaffolding
51.	Overhaul service for Unit 6 – post-overhaul steel structure cleaning

1.1 Time and scope of overhaul service

Activities shall be performed during the 2025 overhaul service. The overhaul service for Unit 6 is envisaged to take place in May/June 2025. The envisaged duration of the overhaul service is 60 days. The Employer shall inform the tenderer of the exact start date of overhaul service 30 days before the scheduled overhaul service date.

The estimated working hours and number of workers required for the successful implementation of the ordered service is of indicative nature only and shall serve as the basis for tenderers to calculate their tender price.

The actual number of hours performed for the ordered services shall be calculated according to the actual man-hours performed by the tenderer. The Employer shall record the arrivals and departures of the tenderer using their own SPICA system. The tenderer must have one of its experts authorised to keep a work log with the specification of the services provided. Signed copies of logs must be handed over to the Employer. The Employer reserves the right to check and reject the items which they consider to deviate from what has been agreed.

A description of the main and detailed activities, the estimated time for implementation and the number of workers required will be further specified in the orders. The latter will be coordinated with the 2025 overhaul time schedule and requirements of TEŠ. The volumes will be adjusted to the activities (i.e. requirements) of TEŠ and total contract amount for the 2025 overhaul. Services will be provided in line with the procedures of TEŠ, procedural instructions and instructions of manufacturers of equipment.

1.2 Working hours

The provision of ordered services shall be adjusted to the work schedule of the 2025 overhaul. Working hours envisaged for the provision of ordered services are as follows: 10 hours a day, six days a week. If necessary, the services ordered are also provided on work-free days (Sundays, holidays) or on a

multi-shift basis, with one shift not exceeding 12 hours. The contractor must be prepared to make changes to the time schedule for the implementation of the activities and will be informed of any such changes in due time. In emergency and unforeseen situations, the contractor is obliged to respond within the shortest possible time with a sufficient number of workers.

1.3 Employer's obligations

The Employer undertakes to provide the following:

- Prior to works, they shall place the order, provide the work order including all necessary procedures, instructions, plans and other documents necessary for the unhindered, safe and quality progress of works;
- They shall see that works are coordinated between the contractor and departments of TEŠ (the start of works, supervision of works, coordination while the works progress, control etc.);
- Base material;
- Filler material;
- All consumables (grinders, cutters, heat insulation materials...);
- Spare parts to be built-in;
- Electricity;
- Necessary drawings and documentation;
- Special tools and special devices;
- Installation, adjustments and disassembly of scaffolds and platforms;
- NDT inspection;
- Prior to works, they shall see that the work area where the ordered services are to be provided is cleaned;
- Space and electricity for containers to serve as changing rooms.

1.4 Tenderer's obligations

Tenderer has the following obligations:

- All tenderers must have their own basic tool kit.
- All workers must be equipped with appropriate personal protective equipment and those concerned must be adequately equipped for work in more challenging areas.
- Development of Occupational Safety Action Programme, designation of a person responsible for providing health and safety at work.
- Use of their own welding power supply equipment and associated welding tools.
- Daily keeping of welding logs and work logs.
- The tenderer undertakes to provide all documentation required to access the Employer's premises, in a timely manner.
- They agree for the access of their workers and them being present at work place will comply with the rules of TEŠ.
- They undertake for their workers to comply with the safety at work measures, fire protection and environmental protection measures under applicable legislation of the Republic of Slovenia and rules of TEŠ.
- They undertake to provide the ordered services in an efficient and continuous manner, in accordance with the orders placed and actual requirements of the Employer.
- They shall clean the site once the services have been completed. They undertake to provide their workers with adequate meals (including beverages) and containers that will serve as changing rooms.

1.5 Hourly rates in the event of additional works

The tenderer must submit the specification, i.e., for each lot for which they submitted their tender they shall state an hourly rate which will serve as the basis for the Employer in the event the Employer requires additional work. The specification shall follow the model hereinafter (the tenderer shall complete the specification only for the tendered services under individual lot):

Workers	Hourly rate (working hours from 7 AM to 5 PM) in EUR
TIG/REO Welder	

REO Welder	
Metal worker/pipe fitter	
Turner	
Insulation fitter	
Lifting gear operator	

The hourly rate must comprise all cost:

- Labour cost
- Cost of preparing the documentation
- Travel cost
- Daily allowances
- Off-site allowance
- Accommodation
- Compensation for extra working conditions
- Basic tools
- Meals
- Personal protective equipment
- Cost of containers serving as changing rooms
- Any other cost necessary for the successful provision of services by the contractor. This means the contractor is not entitled to charge to the Employer any additional indirect or direct cost for the implementation of contract works.

2 TECHNICAL DESCRIPTION OF INDIVIDUAL LOTS

2.1 Lot 32: Overhaul service for Unit 6 – repair of the boiler core unit and associated pipelines

2.1.1 Activities

The order placed for the repair of the boiler core unit and associated pipelines comprises the following activities:

- Repairing impact damages on the piping of the boiler's hopper.
- Cutting out damaged pipes and incorporating new ones on various heating surfaces of the boiler.
- Repairing, installing and replacing piping shields.
- Repairing handrails of anti-vibration plates.
- Cutting out sample pipes from the boiler's pre-heater surfaces.
- Preparing damaged piping surfaces of the steam generator for surfacing (around burners).
- Preparing welding grooves.
- Adjusting and installing pipeline systems.

2.1.2 Required qualifications

The tenderer's personnel for this purpose must be mentally and physically fit for work and must have experience of working in boilers and under extreme working conditions such as: constrained posture, confined space, poor lightning at work place, work at heights and increased dust concentration in the air.

The Employer's experience to date in similar repairs shows the tenderer requires at least **8 metal workers/pipe fitters**, of whom at least one must be a qualified foreman, to be able to successfully provide the ordered services. The number of hours required for the provision of ordered services is estimated to **4000**.

2.1.3 Machines, tool and equipment required

- The tenderer's workers must have their own basic tool kit.

- Special tools and devices are to be provided by the Employer.
- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The lightning inside the boiler shall be provided by the Employer.
- The latter shall also be responsible for the provision of scaffolding.
- Consumables (grinders, cutters, grinding discs and cones...) shall be provided by the Employer.
- Base material shall be provided by the Employer.

2.1.4 References

The tenderer must attach to their tender at least one reference evidencing a successful provision of services in the area of repairing steam boilers and associated systems with a minimum heat output of 10 MW, for the last five years.

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with whom the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

If during the implementation of the contract it turns out the contractor is not sufficiently qualified, the Employer may enforce the coverage purchase (of another contractor) at the expense of the first contractor.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.1.5 Means of proof

Immediately after having selected the lowest tenderer and before signing the contract the Employer shall invite the tenderer to test the workers who are to be involved in the provision of ordered services. The tenderer shall be obliged to send at least 3 workers to undergo a test that will take place at the Employer's premises. The test will focus on the manual and mechanical proficiency in the preparation of welding grooves on the pipes and on the manual and mechanical bending of pipes.

Note:

Workers subject to testing will mandatorily have to participate in the provision of ordered services. If this is not possible owing to illness, retirement, employment relationship termination etc., the tenderer will have to provide equally qualified personnel that has to be tested before the start of the overhaul service.

2.2 Lot 33: Overhaul service for Unit 6 – repair of fittings, hangers and pumps

2.2.1 Activities

The order placed for the repair of fittings, hangers and pumps comprises the following activities:

- Installing and uninstalling fittings, hangers, pumps and steam scrubbers.
- Uninstalling, repairing and installing internal fittings.
- Repairing sealing surfaces of fittings.
- Repairing damaged hangers.
- Repairing steam scrubbers.

2.2.2 Required qualifications

The tenderer's personnel for this purpose must be mentally and physically fit for work, among others, under extreme working conditions such as: constrained posture, confined space, poor lightning at work place, work at heights and increased dust concentration in the air.

The Employer's experience to date in similar repairs shows the tenderer requires at least **6 metal workers/pipe fitters**, of whom at least one must be a qualified foreman, to be able to successfully provide the ordered services. The number of hours required for the provision of ordered services is estimated to **3000**.

2.2.3 Machines, tool and equipment required

- The tenderer's workers must have their own basic tool kit.
- Special tools and devices are to be provided by the Employer.
- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The lightning shall be provided by the Employer.
- The latter shall also be responsible for the provision of scaffolding.
- Consumables (grinders, cutters, grinding discs and cones...) shall be provided by the Employer.
- Base material shall be provided by the Employer.

2.2.4 References

The tenderer must attach to their tender at least one reference evidencing one successfully completed transaction of repairing facilities in thermal power plants, for the last five years.

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with which the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.3 Lot 34: Overhaul service for Unit 6 – heat insulation

2.3.1 Activities

The order placed for the repair of heat insulation comprises the following activities:

- Uninstalling and installing heat insulation.
- Uninstalling and installing the protective metal sheet of heat insulation.
- Manufacturing, installing and uninstalling various heat insulation supports.
- Manufacturing various sheet metal parts for heat insulation cladding (manufacture of cladding, reduction parts, T and Y parts...).

2.3.2 Required qualifications

The tenderer's personnel for this purpose must be mentally and physically fit for work, among others, under extreme working conditions such as: constrained posture, confined space, poor lightning at work place, work at heights and increased dust concentration in the air.

The Employer's experience to date in similar repairs shows the tenderer requires at least **3 insulation fitters**, of whom at least two must be proficient in sheet metal cutting, to be able to provide the ordered

services. In the event of increased workload in the area of heat insulation, the tenderer must be able to respond with an increased number of insulation fitters within 24 hours. The number of hours required for the provision of ordered services is estimated to **2400**.

2.3.3 Machines, tool and equipment required

- The tenderer's workers must have their own basic tool kit.
- Special tools and devices are to be provided by the Employer.
- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The lightning shall be provided by the Employer.
- The latter shall also be responsible for the provision of scaffolding.
- Consumables shall be provided by the Employer.
- Material for heat insulation repairs shall be provided by the Employer.

2.3.4 References

The tenderer must attach to their tender at least one reference evidencing a successful provision of services in the area of heat insulation repair of steam boilers and associated systems with a minimum heat output of 10 MW, for the last five years.

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with which the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

If during the implementation of the contract it turns out the Contractor is not sufficiently qualified, the Employer may enforce the coverage purchase (of another contractor) at the expense of the first contractor.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.3.5 Means of proof

Immediately after having selected the lowest tenderer and before signing the contract the Employer shall invite the tenderer to test the workers who are to be involved in the provision of ordered services. The tenderer shall be obliged to send at least 2 workers to undergo a test that will take place at the Employer's shop. The test will focus on sheet metal cutting skills.

Note:

Workers subject to testing will mandatorily have to participate in the provision of ordered services. If this is not possible owing to illness, retirement, employment relationship termination etc., the tenderer will have to provide equally qualified personnel that has to be tested before the start of the overhaul service.

2.4 Lot 35: Overhaul service for Unit 6 – welding services

2.4.1 Activities

The order placed for welding repairs comprises the following activities:

- Repair welding of damaged parts of fittings.

- Repair welding of damaged machine elements of equipment such as: pumps, fans, transport devices, mixers...
- Welding of various pipes and pipe connections.
- Welding of various structures.
- Surfacing of impact and erosion damages on the piping of the boiler's steam generator.

Materials on which the welding services are to be provided:

- 16Mo3,
- 13CrMo4-5,
- 10CrMo9-10,
- X10CrAlSi7(18 or 24),
- Structural steel,
- X7CrMoVTiB10-10
- X10CrMoVNb9-1, X10CrWMoVNb9-2
- Steel of 8.1 and 8.2 categories.

2.4.2 Required qualifications

The tenderer's personnel for this purpose must be mentally and physically fit for work and must have experience of working in boilers and under extreme working conditions such as: constrained posture, confined space, poor lightning at work place, work at heights and increased dust concentration in the air.

The Employer's experience to date in similar repairs shows the tenderer requires at least **4 TIG/REO welders and 2 REO welders** to be able to successfully provide the ordered services. In the event of increased workload in the area of welding services, the tenderer must be able to respond with an increased number of welders within 24 hours (as per the Employer's requirements, could be up to + 3 welders). The number of hours required for the provision of ordered services is estimated to **4500 (3000: TIG/REO; 1500 hours: REO)**. REO welders must be proficient in flame cutting.

2.4.3 Machines, tool and equipment required

- The tenderer's welders must have their own welding power supply.
- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The lightning shall be provided by the Employer.
- The latter shall also be responsible for the provision of scaffolding.
- Consumables (grinders, cutters, grinding discs and cones...) shall be provided by the Employer.
- Base and filling materials shall be provided by the Employer.
- Welding instructions shall be provided by the Employer.

2.4.4 References

The tenderer must attach to their tender at least one reference evidencing a successful provision of welding services in the area of repairing steam boilers and associated systems with a minimum heat output of 10 MW, for the last five years (1 reference minimum).

The tenderer shall submit to their tender at least one reference evidencing a successful provision of welding services involving the following materials:

- X7CrMoVTiB10-10
- X10CrMoVNb91, X10CrWMoVNb9-2
- Steel of 8.1 and 8.2 categories.

The tenderer shall submit at least one (1) reference for each material or a combination thereof with another material, and such reference shall be substantiated with at least one (1) WPQR.

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with which the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

If during the implementation of the contract it turns out the Contractor is not sufficiently qualified, the Employer may enforce the coverage purchase (of another contractor) at the expense of the first contractor.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.4.5 Means of proof

The tender shall comprise the following documents:

- Welders' qualification certificates (covering the materials listed under section 2.4.1)
- Company's certificate under EN ISO 3834, at least Part 3.

Immediately after having selected the lowest tenderer and before signing the contract the Employer shall invite the tenderer to test the welders who are to be involved in the provision of ordered services. The tenderer shall be obliged to send at least 5 welders to undergo a test. The latter will take place at the Employer's shop or if it so agreed it may also take place at the tenderer's shop. TIG/REO welders subject to testing will have to weld a pipe assembly in position H-L045. REO welders subject to testing will have to make a butt weld of two metals with a minimum thickness of 10 mm in PC and PF position.

Note:

Welders subject to testing will mandatorily have to participate in the provision of ordered services. If this is not possible owing to illness, retirement, employment relationship termination etc., the tenderer will have to provide equally qualified welders that have to be tested before the start of the overhaul service.

2.5 Lot 36: Overhaul service for Unit 6 – machining, turning

2.5.1 Activities

The order placed for the machining and turning services comprises the following activities:

- Manufacture of various machine elements using a standard lathe.
- Turning various damaged machine elements.
- Turning welding grooves.
- Manufacture of spindles.
- Cleaning various machine elements on a lathe using grinding paper.

2.5.2 Required qualifications

The tenderer's personnel must be mentally and physically fit for work and must have experience of working with a standard lathe:

- at least 5 years of work experience.
- proficiency in manufacturing trapezoidal thread spindles.
- proficiency in fine turning with a tolerance of ± 0.05 mm.

The Employer's experience to date in machining (turning) operations shows the tenderer requires at least **2 experienced turners** to be able to provide the ordered services. The number of hours required for the provision of ordered services is estimated to **600**.

2.5.3 Machines, tool and equipment required

- The tenderer shall provide the ordered services in the Employer's machine shop (with the Employer making available their machine tools).
- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- Cutting tools shall be provided by the Employer.
- Documentation and drawings shall be provided by the Employer.
- Base material shall be provided by the Employer.

2.5.4 References

The tenderer shall submit to their tender a certificate of 5-year work experience for both turners.

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with whom the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.5.5 Alternative option

If the tenderer is unable to provide the ordered services of machining/turning at the Employer's machine shop, they may offer to provide the services of machining/turning at their own machine shop.

2.6 Lot 37: Overhaul service for Unit 6 – inspection of firing system drive assembly

2.6.1 Activities

a) Inspection of firing system drive assembly and the oil burner system

- Inspection of gear assembly of pulverisation mills 1–8 (06HFC10-80) and of primary crusher, and rectification of leakage.
- Filters replacement, oil inspection (centrifugation or replacement, if necessary), inspection of gauges, leak detection inspection of VOITH couplings on pulverisation mills 1–8 (06HFC10 – 80).
- 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 primary crusher 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.
- Inspection of cold air dampers of pulverisation mills 1–8 (06HFC10-80) and replacement of bearings, if necessary.
- Inspection of oil burner system (06HJA11/21/31/41/12/22/32/43/2) and rectification of defects and leakages.
- Other works identified as necessary following the inspection.

b) Inspection of combustion system

- Inspecting the operation of firing grate cooling dampers and rectification of shortcomings. If necessary, surfacing the worn-out parts and replacing the sealing.

- Inspecting the firing grate compensator and replacing the same, if necessary.
- Replacing and filtering the oil in the slag crusher hydraulic station, replacing the filter, cooperating with the maintenance personnel.
- Other works identified as necessary following the inspection.

2.6.2 Required qualifications

The tenderer's personnel shall have experience of working on firing and combustion systems as well as skills of working on drive assemblies (couplings, bearings, reduction gears, oil coolers...).

The Employer's experience to date in similar inspections shows the tenderer requires at least **1 welder** and **8 metal workers**, of whom at least one must be a qualified foreman, to be able to successfully provide the ordered services. The number of hours required for the provision of ordered services is estimated to **3600**.

2.6.3 Machines, tool and equipment required

- The tenderer's workers must have their own basic tool kit.
- Special tools and devices are to be provided by the Employer.
- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The scaffolding shall be provided by the Employer.
- Consumables (filling material, filters, gauges, oil...) shall be provided by the Employer.
- Base material and other required material shall be provided by the Employer.
- NDT inspection shall be carried out by the Employer (after the tenderer had prepared the levers for inspection).
- Oil filtering device shall be provided by the Employer.

2.6.4 References

The tenderer and potential subcontractor must submit at least one reference in the area of providing maintenance work on firing and combustion systems or one 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...), for the last five years in the amount of at least EUR 50,000.00 (exclusive VAT).

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with which the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.7 Lot 38: Overhaul service for Unit 6 – revision of ID and FD fans

2.7.1 Activities

The inspection shall consist of the following activities:

- Inspection of gear assembly (replacing bearings, oil seals, oil, hydraulic pipes, bushings and other sealing elements);
- Inspection of the rotor (replacing the bearings of the blade shafts and all other sealing elements);

- Uninstalling and installing the hydraulic cylinder,
- Replacing oil at the lubricating-oil and hydraulic-oil hydraulic stations;
- Replacing oil for lubricating the bearings of blade shafts;
- Replacing the sealing of the shaft on the ventilating duct;
- Replacing the filters of the sealing air fans;
- Cleaning the machine elements, housing and cover of the fans;
- Inspection of hydraulic stations.

The tenderer's personnel for this purpose must be mentally and physically fit for work, among others, under extreme working conditions such as: constrained posture, confined space, poor lightning at work place, work at heights and increased dust concentration in the air.

According to the Employer's experience to date in similar repairs shows the tenderer requires at least **13 metal workers** to be able to successfully provide the ordered services. The number of hours required for the provision of ordered services is estimated to **6000**.

2.7.2 Machines, tool and equipment required

- The tenderer's workers must have their own basic tool kit.
- Special tools and devices are to be provided by the Employer.
- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The lightning inside the boiler shall be provided by the Employer.
- The latter shall also be responsible for the provision of scaffolding.
- Consumables (grinders, cutters, grinding discs and cones...) shall be provided by the Employer.
- Base material shall be provided by the Employer.

2.7.3 References

The tenderer must attach to their tender at least one reference evidencing a successful provision of maintenance services at power generating facilities with a minimum heat output of 10 MW, for the last five years.

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with which the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.8 Lot 39: Overhaul service for Unit 6 – inspection of recirculation fans

2.8.1 Activities

The inspection shall consist of the following activities:

- Inspecting the stator blade system of both fans;
- Replacing oil;
- Replacing bearings;
- Inspecting the coupling;
- Cleaning both rotors;
- Balancing the compensator duct of both suction-side fans.

The tenderer's personnel for this purpose must be mentally and physically fit for work, among others, under extreme working conditions such as: constrained posture, confined space, poor lightning at work place, work at heights and increased dust concentration in the air.

The Employer's experience to date in similar repairs shows the tenderer requires at least **4 metal workers**, of whom at least one must be a qualified foreman, to be able to successfully provide the ordered services. The number of hours required for the provision of ordered services is estimated to **1200**.

2.8.2 Machines, tool and equipment required

- The tenderer's workers must have their own basic tool kit.
- Special tools and devices are to be provided by the Employer.
- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The lightning inside the boiler shall be provided by the Employer.
- The latter shall also be responsible for the provision of scaffolding.
- Consumables (grinders, cutters, grinding discs and cones...) shall be provided by the Employer.
- Base material shall be provided by the Employer.

2.8.3 References

The tenderer must attach to their tender at least one reference evidencing a successful provision of maintenance services at power generating facilities with a minimum heat output of 10 MW, for the last five years.

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with which the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.9 Lot 40: Overhaul service for Unit 6 – inspection of RAPH

2.9.1 Activities

The inspection shall consist of the following activities:

- Inspecting and cleaning the inside of the housing;
- Replacing the sealing metals of the circumferential sealing;
- Replacing secondary metals of radial and axial sealing;
- Inspecting the support and guide bearing and replacing the oil;
- Inspecting and replacing the cord seal in the rotor shaft sealing system;
- Replacing oil in reduction drives of the rotor drive system;
- Setting the rotor radial sealing in both cold and hot regime;
- Inspection of the heater steam scrubbing system;
- Replacing catalyst elements of level 2 and 3 on sides A and B.

The tenderer's personnel for this purpose must be mentally and physically fit for work, among others, under extreme working conditions such as: constrained posture, confined space, poor lightning at work place, work at heights and increased dust concentration in the air.

According to the Employer's experience to date in similar repairs shows the tenderer requires at least **16 metal workers** to be able to successfully provide the ordered services. The number of hours required for the provision of ordered services is estimated to **6000**.

2.9.2 Machines, tool and equipment required

- The tenderer's workers must have their own basic tool kit.
- Special tools and devices are to be provided by the Employer.
- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The lightning inside the boiler shall be provided by the Employer.
- The latter shall also be responsible for the provision of scaffolding.
- Consumables (grinders, cutters, grinding discs and cones...) shall be provided by the Employer.
- Base material shall be provided by the Employer.

2.9.3 References

The tenderer must attach to their tender at least one reference evidencing a successful provision of maintenance services at power generating facilities with a minimum heat output of 10 MW, for the last five years.

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with which the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.10 Lot 41: Overhaul service for Unit 6 – inspection of ducts and dampers on flue gas and air ducting system

2.10.1 Activities

The inspection shall consist of the following activities:

- Inspecting all flue and air ducts and repairing/replacing the compensators with identified leaks.
- Inspecting the operation of the combustion air/flue gas system dampers.
- Inspection and pressure test of both steam air heaters.
- Repairing mixer plates in flue gas ducting system.

The tenderer's personnel for this purpose must be mentally and physically fit for work, among others, under extreme working conditions such as: constrained posture, confined space, poor lightning at work place, work at heights and increased dust concentration in the air.

The Employer's experience to date in similar repairs shows the tenderer requires at least **6 metal workers**, of whom at least one must be a qualified foreman, to be able to successfully provide the ordered services. The number of hours required for the provision of ordered services is estimated to **2000**.

2.10.2 Machines, tool and equipment required

- The tenderer's workers must have their own basic tool kit.
- Special tools and devices are to be provided by the Employer.

- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The lightning inside the boiler shall be provided by the Employer.
- The latter shall also be responsible for the provision of scaffolding.
- Consumables (grinders, cutters, grinding discs and cones...) shall be provided by the Employer.
- Base material shall be provided by the Employer.

2.10.3 References

The tenderer must attach to their tender at least one reference evidencing a successful provision of maintenance services at power generating facilities with a minimum heat output of 10 MW, for the last five years.

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with which the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.11 Lot 42: Overhaul service for Unit 6 – repair of mixer plates in flue gas ducting system

2.11.1 Activities

The inspection shall consist of the following activities:

- Repairing mixer plates in flue gas ducting system.

The tenderer's personnel for this purpose must be mentally and physically fit for work, among others, under extreme working conditions such as: constrained posture, confined space, poor lightning at work place, work at heights and increased dust concentration in the air.

The Employer's experience to date in similar repairs shows the tenderer requires at least **2 REO welders-climbers**, of whom at least one must be a qualified foreman, to be able to successfully provide the ordered services. The number of hours required for the provision of ordered services is estimated to **700**.

2.11.2 Machines, tool and equipment required

- The tenderer's workers must have their own basic tool kit.
- Special tools and devices are to be provided by the Employer.
- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The lightning inside the boiler shall be provided by the Employer.
- The latter shall also be responsible for the provision of scaffolding.
- Consumables (grinders, cutters, grinding discs and cones...) shall be provided by the Employer.
- Base material shall be provided by the Employer.
- The worker must have proper equipment and skills in rope-access technique as the work takes place at inaccessible and exposed section with workers having to provide a proper work space themselves.

2.11.3 References

The tenderer must attach to their tender at least one reference evidencing a successful provision of maintenance services at power generating facilities with a minimum heat output of 10 MW, for the last five years.

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with which the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.12 Lot 43: Overhaul service for Unit 6 – replacement of DENOX catalyst elements

2.12.1 Activities

The inspection shall consist of the following activities:

- Uninstalling the insulation and the duct inlets and setting up the scaffolding to replace the catalyst elements of level 1 at an elevation of +78 m;
- Cutting sealing metals;
- Uninstalling the existing catalyst elements (152) at an elevation of +78 m and lowering them to elevation of +0 m using the construction lift;
- Lifting and installing new catalyst elements (152);
- Welding new sealing metals;
- Removing the scaffolding and installing the door; making the seal welds.

The tenderer's personnel for this purpose must be mentally and physically fit for work, among others, under extreme working conditions such as: constrained posture, confined space, poor lightning at work place, work at heights and increased dust concentration in the air.

The Employer's experience to date in similar repairs shows the tenderer requires at least **14 metal workers**, of whom at least one must be a qualified foreman, to be able to successfully provide the ordered services. The number of hours required for the provision of ordered services is estimated to **1800**.

2.12.2 Machines, tool and equipment required

- The tenderer's workers must have their own basic tool kit.
- Special tools and devices are to be provided by the Employer.
- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The lightning inside the boiler shall be provided by the Employer.
- The latter shall also be responsible for the provision of scaffolding.
- Consumables (grinders, cutters, grinding discs and cones...) shall be provided by the Employer.
- Base material shall be provided by the Employer.

2.12.3 References

The tenderer must attach to their tender at least one reference evidencing a successful provision of maintenance services at power generating facilities with a minimum heat output of 10 MW, for the last five years.

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with which the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.13 Lot 44: Overhaul service for Unit 6 – inspection of FGD6 equipment

2.13.1 Activities

The inspection shall consist of the following activities:

Scrubber:

- Emptying the scrubber and inspecting the rubberised surface.
- Inspecting the spraying levels and cleaning the mist eliminator.
- Replacing oil in mixers and pumps.
- Rectifying leakages of the compensator at the scrubber outlet.
- Inspecting the slag pump and two circulation pumps with most operating hours.

Product:

- Emptying and cleaning the product vessel.
- Inspecting the system and rectifying irregularities.
- Inspecting the product pump.

Process water:

- Inspecting the system and rectifying irregularities.
- Inspecting the process water pump.

Additive

- Inspecting the system and rectifying irregularities.
- Inspecting the additive dispensing ducts.
- Emptying the daily limestone silo and inspecting the aeration screens.
- Replacing the perforated sheet metal of the additive silo filling stations.

Oxidation ducting system:

- Uninstalling and installing the oxidation collector and ducting system.

The tenderer's personnel for this purpose must be mentally and physically fit for work, among others, under extreme working conditions such as: constrained posture, confined space, poor lighting at work place, work at heights and increased dust concentration in the air.

The Employer's experience to date in similar repairs shows the tenderer requires at least **6 metal workers** to be able to successfully provide the ordered services. The number of hours required for the provision of ordered services is estimated to **3000**.

2.13.2 Machines, tool and equipment required

- The tenderer's workers must have their own basic tool kit.
- Special tools and devices are to be provided by the Employer.

- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The lightning inside the boiler shall be provided by the Employer.
- The latter shall also be responsible for the provision of scaffolding.
- Consumables (grinders, cutters, grinding discs and cones...) shall be provided by the Employer.
- Base material shall be provided by the Employer.

2.13.3 References

The tenderer must attach to their tender at least one reference evidencing a successful provision of maintenance services at power generating facilities with a minimum heat output of 10 MW, for the last five years.

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with which the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.14 Lot 46: Overhaul service for Unit 6 – overhaul of feedwater pumps

2.14.1 Activities

In 2025, a major overhaul of feedwater pumps 1 and 2 is envisaged. Given the anticipated 2022–2025 operation, both pumps will have achieved 50,000 operating hours.

The inspection shall consist of the following activities:

- Uninstalling in full the inner housing of the pumps and inspecting the pump;
- Inspecting booster pumps 1 and 2.

The Employer's experience to date in similar repairs shows the tenderer requires at least **6 metal workers** to be able to successfully provide the ordered services. The number of hours required for the provision of ordered services is estimated to **3000**.

2.14.2 Machines, tool and equipment required

- The tenderer's workers must have their own basic tool kit.
- Special tools and devices are to be provided by the Employer.
- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The scaffolding shall be provided by the Employer.
- Consumables (grinders, cutters, grinding discs and cones...) shall be provided by the Employer.
- Base material shall be provided by the Employer.

2.14.3 References

The tenderer must attach to their tender at least one reference evidencing a successful provision of maintenance services at power generating facilities with a minimum heat output of 10 MW, for the last five years.

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also

fulfil the above condition through a subcontractor, but only if the subcontractor with which the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.15 Lot 47: Overhaul service for Unit 6 – overhaul of feedwater pumps Vorecon gear

2.15.1 Activities

In 2025, a major overhaul of Voith Vorecon drive of feed-water pumps is envisaged. Given the anticipated 2022–2025 operation, both pumps will have achieved 50,000 operating hours.

The inspection shall consist of the following activities:
-Inspecting the Voith Vorecon power transmission gear.

The Employer's experience to date in similar repairs shows the tenderer requires at least **6 metal workers** to be able to successfully provide the ordered services. The number of hours required for the provision of ordered services is estimated to **3000**.

2.15.2 Machines, tool and equipment required

- The tenderer's workers must have their own basic tool kit.
- Special tools and devices are to be provided by the Employer.
- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The scaffolding shall be provided by the Employer.
- Consumables (grinders, cutters, grinding discs and cones...) shall be provided by the Employer.
- Base material shall be provided by the Employer.

2.15.3 References

The tenderer must attach to their tender at least one reference evidencing a successful provision of maintenance services at power generating facilities with a minimum heat output of 10 MW. for the last five years.

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with which the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.16 Lot 48: Overhaul service for Unit 6 – overhaul of steam-water system

The inspection shall consist of the following activities:

- Inspecting and uninstalling the mechanical equipment pertaining to condensation applications, supply systems, cooling systems and pressure equipment.

- Repairing fittings, uninstalling and installing pump components, replacing bearings, preparing pressure equipment for internal inspection, repairing pipelines, cleaning machine equipment components.
- Preparing spare parts for renewing the mechanical equipment.
- Replacing oil in the pumps.
- Preparing welding grooves of pipelines; manufacturing, adjusting new pipelines.

2.16.1 Required qualifications

The tenderer's personnel for this purpose must be mentally and physically fit for work, among others, under extreme working conditions such as: constrained posture, confined space, poor lightning at work place, work at heights and increased dust concentration in the air.

The Employer's experience to date in similar repairs shows the tenderer requires at least **8 metal workers**, of whom at least one must be a qualified foreman, **and 2 pipe fitters**, to be able to successfully provide the ordered services. The number of hours required for the provision of ordered services is estimated to **5000**.

2.16.2 Machines, tool and equipment required

- The tenderer's workers must have their own basic tool kit.
- Special tools and devices are to be provided by the Employer.
- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The scaffolding shall be provided by the Employer.
- Consumables (grinders, cutters, grinding discs and cones...) shall be provided by the Employer.
- Base material shall be provided by the Employer.

2.16.3 References

The tenderer must attach to their tender at least one reference evidencing a successful provision of maintenance services of pumps and fittings at power generating facilities with a minimum heat output of 10 MW, for the last five years.

This condition must be fulfilled by the tenderer. In the event of a joint tender, the condition shall be fulfilled through any member of the joint tender. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with which the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.

References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.

2.17 Lot 49: Overhaul service for Unit 6 – inspection of side product handling system

2.17.1 Activities

The order (inspection of side product handling system) comprises the following activities:

- Repairing wear plates in the silos and chutes.
- Cutting out damaged and mounting new wear plates in silos and chutes.
- Preparing welding grooves.
- Adjusting and installing pipeline systems.
- Repairing rubber belt conveyors (repairing rollers, belt scrapers, rubber belt).
- Repairing chain conveyors (replacing drivers, chain, sprocket drive units).
- Replacing oil in reduction and transmission drives.

2.17.2 Required qualifications

The tenderer's personnel for this purpose must be mentally and physically fit for work and must have experience of working in boilers and under extreme working conditions such as: constrained posture, confined space, poor lighting at work place, work at heights and increased dust concentration in the air.

The Employer's experience to date in similar repairs shows the tenderer requires at least **16 metal workers**, of whom at least one must be a qualified foreman, to be able to successfully provide the ordered services. The number of hours required for the provision of ordered services is estimated to **8000**.

2.17.3 Machines, tool and equipment required

- The tenderer's workers must have their own basic tool kit.
- Special tools and devices are to be provided by the Employer.
- The tenderer's workers must have basic protective work equipment. In addition, the tenderer must provide them with harnesses for work at heights.
- The lightning inside the boiler shall be provided by the Employer.
- The latter shall also be responsible for the provision of scaffolding.
- Consumables (grinders, cutters, grinding discs and cones...) shall be provided by the Employer.
- Base material shall be provided by the Employer.

2.17.4 Means of proof

Immediately after having selected the lowest tenderer and before signing the contract the Employer shall invite the tenderer to test the workers who are to be involved in the provision of ordered services. The tenderer shall be obliged to send at least 3 workers to undergo a test that will take place at the Employer's shop. The test will focus on the manual and mechanical proficiency in the preparation of welding grooves on the pipes and on the manual and mechanical bending of pipes.

Note:

Workers subject to testing will mandatorily have to participate in the provision of ordered services. If this is not possible owing to illness, retirement, employment relationship termination etc., the tenderer will have to provide equally qualified personnel that has to be tested before the contract is signed.

2.18 Lot 50: Overhaul service for Unit 6 – scaffolding

2.18.1 Volume and description of works

- The tenderer's workers will install and uninstall various types of scaffolds, such as: supported scaffolds, work platforms, protection platforms, mobile scaffolds, suspended scaffolds and cantilever scaffolds. They will also install the H-frame scaffolds. With power and other facilities at TEŠ being of specific design (large, above-average scaffolding required, huge distances between support elements, suspended scaffolds hanging from the boiler pipes, inclined surfaces or steel supports etc.), the work is considered very dangerous. Therefore, the workers must be extremely well qualified and experienced for this type of work. Certain works take place in confined spaces, at high ambient temperatures, at heights, with workers being exposed to dust and increased levels of noise.
- If the work process of installing and uninstalling the scaffolds is carried out with the scaffolding material provided by the Employer, the process also includes the transportation of the material from the central depot of scaffolding material to the site and vice versa, and the stacking of the scaffolding material in the central depot or make-shift depots in power facilities.
- Transport, assembly and disassembly of work platforms made of steel standard design elements with the upper work platform of up to 24.0 m in height, including the reinforcements of overhanging elements, diagonal components, scaffolding, including any necessary access

points, protections, metal or wood standard design walkboards, installing safety rail guards, steps, access ladders and static fixation and earthing.

- Transport, assembly and disassembly of work platforms made of standard steel scaffolding pipes of up to 24.0 m in height, including the reinforcements of overhanging elements, diagonal components, scaffolding, including any necessary access points, protections, metal or wood walkboards, installing safety rail guards, steps, access ladders and static fixation and earthing.
- Transport, assembly and disassembly of suspended scaffolds made of standard scaffolding pipes, including the installation of the necessary protection elements, without extending the supports.
- Transport, assembly and disassembly of combined work platforms made of steel scaffolding pipes and steel standard design elements of up to 24.0 m in height, including the reinforcements of overhanging elements, diagonal components, scaffolding, including any necessary access points, protections, metal or wood walkboards, installing safety rail guards, steps, access ladders and static fixation and earthing.
- Transport, assembly and disassembly of combined work platforms in vertical shafts, vertical and inclined ducts, flue gas ducts...

2.18.2 Means of protection, work devices and tools

- The tenderer's workers shall have adequate personal protective and safety equipment. Each worker must also have an adequately certified harness for work at heights.
- The majority of the scaffolding material and other means for work shall be provided by the Employer.

2.18.3 Start and time of performing work

- The tenderer's workers will be coordinated by the Employer's regional head of construction maintenance and shall start with the work approximately one (1) week before the scheduled start of overhaul works for a 2-month period.
- Works will mostly be performed during regular working hours from 7 AM to 3 PM. Depending on the requirements, the work shall also be performed outside regular working hours, i.e., at night, at week-ends and on holidays, and in any weather.
- The actual account will be made on the basis of actual work hours performed.
- An 8–10-hour working day is envisaged.
- During the overhaul, the dynamics of the service provision might be slowed down temporarily, meaning less workers will be required during that time.

2.18.4 Required qualifications

- The tenderer's workers shall possess the necessary skills and experience in assembly and disassembly of various types of scaffolds, such as: supported scaffolds, work platforms, protection platforms, mobile scaffolds, suspended scaffolds, cantilever scaffolds and H-frame scaffolds.
- The tenderer's worker shall be mentally and physically fit for work at heights, in confined spaces, at high ambient temperatures, at high concentration of dust and noise.
- The Employer's experience to date in the provision of similar services shows the tenderer requires at least 12–16 carpenters, i.e., scaffolding installers, of whom at least one must be a qualified foreman, to be able to successfully provide the ordered services.
- The number of hours required for the provision of ordered services is estimated to 5000.
- Should the Employer be dissatisfied with the work of any of the workers, they may request that any such worker be replaced. The tenderer shall be obliged to replace the worker within 48 hours.

2.18.5 References

- The tenderer must attach to their tender at least one reference (one (1) reference at minimum) evidencing the provision of scaffolding services in thermal power plants, for the last five years.

- In the event of joint tender, the list of references of any of the partners participating in the joint tender will do. If the tenderer subcontracts the work, they may also fulfil the above condition through a subcontractor, but only if the subcontractor with whom the tenderer fulfils the condition, will actually provide the services in the framework of the relevant public contract for which they meet the condition.
- References must be confirmed by the person/entity providing the reference. In addition, the tenderer must submit relevant supporting documents such as: final accounts, proof of reliability of the facility, contracts on the implementation of works, their own reference certificates etc. They shall also provide details of the contact person who can confirm the submitted references.
- Employer will verify the references.

2.18.6 Means of proof

Immediately after having selected the lowest tenderer and before signing the contract the Employer shall invite the tenderer to test the workers who are to be involved in the provision of ordered services. The tenderer shall be obliged to send at least 5 workers to undergo a test that will take place at the Employer's premises. The test will focus on the ability to erect a working or protection platform (scaffold) in a thermal power plant.

Note:

Workers subject to testing will mandatorily have to participate in the provision of ordered services. If this is not possible owing to illness, retirement, employment relationship termination etc., the tenderer will have to provide equally qualified personnel that has to be tested before the contract is signed.

If during the implementation of the contract it turns out the contractor is not sufficiently qualified, the Employer may enforce the coverage purchase (of another contractor) at the expense of the first Contractor.

Lot 51: Overhaul service for Unit 6 – post-overhaul steel structure cleaning

2.18.7 Volume and description of works

- Post-overhaul cleaning at Unit 6 (U6) and at
- flue-gas desulphurisation plant (FGD 6).

The cleaning services will take place using the rope-access technique at less accessible places such as primary and secondary steel structures of the plants, steel support structures and housings of plants, tanks containing various media, external surfaces of pressure tanks, external surfaces of pipelines of different dimensions... (see typical photos attached hereto 2.21.6).

Owing to the specific nature of the plant, one has to envisage the works taking place at less accessible places will be performed using the rope-access technique. The work will also take place at locations exposed to high temperatures and increased levels of noise.

Dusty surfaces may only be cleaned by using the industrial vacuum cleaner. Compressed air cleaning is not allowed.

Surfaces accessible from the existing platforms inside the facilities are not the subject of the tender.

2.18.8 Tender price, placing the order and billing

The tender price shall be determined based on a preliminary tour of the plant and attached photos. It is advisable to make a preliminary tour of the plant. The total tender shall include the full cost necessary to provide the contract works. When determining the price per unit, it must be taken into account that the services will occasionally be carried out in the area with increased noise levels, high temperatures, work at heights, etc.

The tenderer must have at their disposition the equipment, technology and qualified workers necessary to carry out the services that are the subject of this tender.

The service will be carried out within the Employer's regular working hours or as agreed. The service must be provided by 31 October 2025 at the latest (this only applies to Lot 51). The Employer reserves the right to postpone, change or extend the deadline for the provision of services under the relevant lot on account of circumstances attributable to the Employer and in the event the date scheduled for the overhaul service has been changed.

2.18.9 Obligations of the tenderer and Employer

The tenderer shall be responsible for its own organisation of safe work at the site for the entire duration of works, and shall also be responsible for accidents at work of its workers and the consequences thereof in accordance with the provisions of the Written Agreement signed before the commencement of works, and in accordance with the regulations governing health and safety at work.

The tenderer may make use of TEŠ sanitary facilities. The Employer shall draw up all documents necessary for the provision of individual services (work programme, work order, work permit...). The tenderer shall receive the work documentation from the head of the maintenance within the construction unit and from the head of technical unit.

2.18.10 Establishing the tenderer's technical capacity

The tenderer's workers must be familiar with the plant and equipment at the power-generating facilities, must be independent and adequately qualified for safe and efficient work at heights.

Owing to the specific nature of the facilities, certain works will have to be provided at locations that are not accessible with scaffolds, ladders or lifting equipment. At these places works are to be performed using the rope-access technique following the IRATA guidelines.

The tenderer must submit at least one supporting document evidencing that they have leased at least three (3) industrial vacuum cleaners (with a minimum rated power of 3kW and vacuum power of 600 m³/h) for the provision of cleaning services at heights.

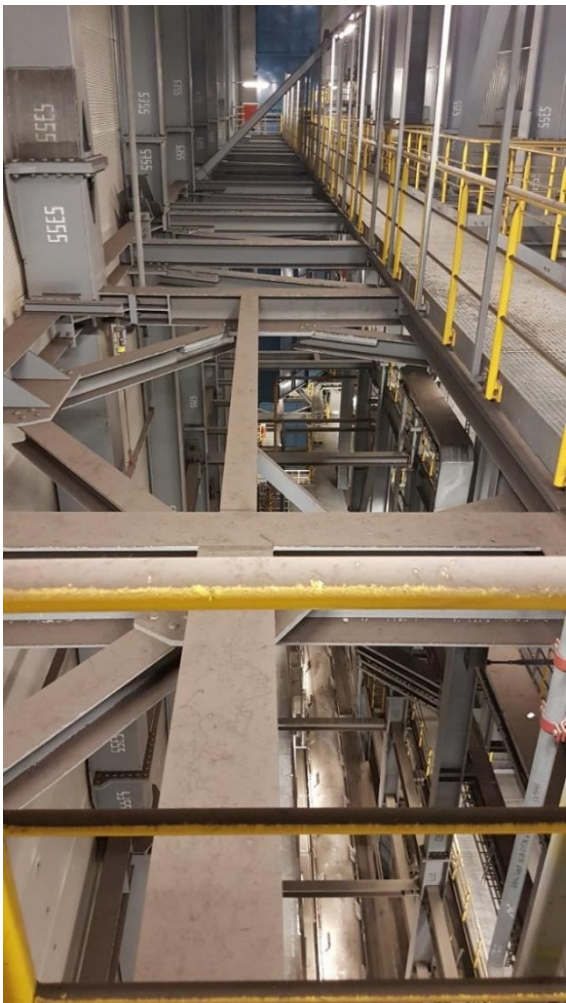
The Employer's experience to date in the provision of similar services shows the tenderer requires at least 3–8 workers proficient in the rope-access technique, of whom at least one must be a qualified foreman, to be able to successfully provide the ordered services.

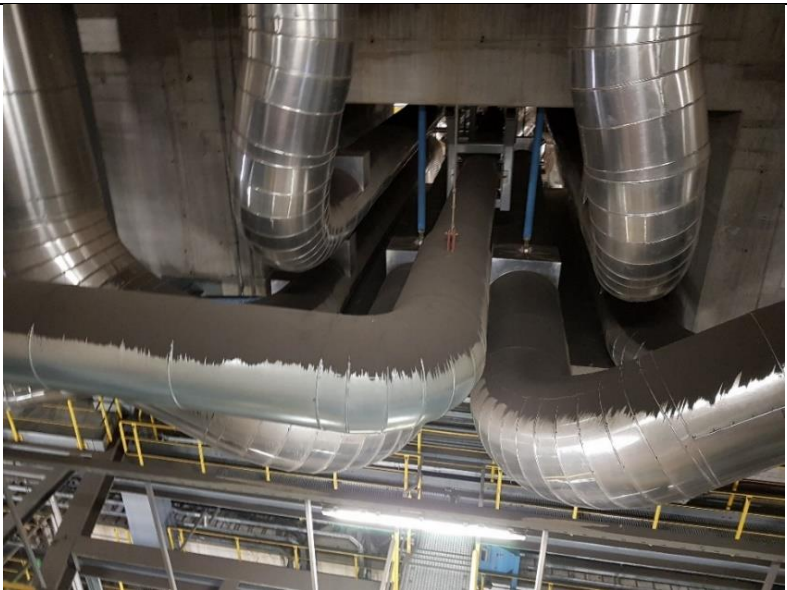
The number of hours required for the provision of ordered services is estimated to 1700.

2.18.11 References

The tenderer shall submit at least one reference referring to the comparable service (from this call for tenders) provided at a thermal power plant in the last five years (until the deadline for the submission of the tender) in an amount of at least EUR 30,000.00 per transaction. Employer will verify the reference.

2.18.12 Typical photos

Item	Typical photos
1. Steel structure cleaning – surfaces outside the installed steel gratings (see typical photos) Note: Dusty surfaces shall be cleaned using the industrial vacuum cleaner. Apart from dust particles, other materials may also need to be cleaned, such as mineral wool, plastics, wood, cigarette butts, metal chips, small packaging items... Removal of gratings is not included in the item of steel structure cleaning.	 

	
2. Cleaning piping surfaces and associated elements such as supports, fittings etc. (see typical photos) Note: Dusty surfaces shall be cleaned using the industrial vacuum cleaner. Apart from dust particles, other	

materials may also need to be cleaned, such as mineral wool, plastics, wood, cigarette butts, metal chips, small packaging items...



3. Cleaning cable trays and installations at less accessible places (see typical photos)

Note:
Dusty surfaces shall be cleaned using the industrial vacuum cleaner.
Apart from dust particles, other materials may also need to be cleaned, such as mineral wool, plastics, wood, metal materials...



4. Cleaning DeNox ducts (see typical photos)

Note:

Dusty surfaces shall be cleaned using the industrial vacuum cleaner.

Apart from dust particles, other materials may also need to be cleaned, such as mineral wool, plastics, wood, cigarette butts, metal chips, small packaging items...

