affirm

Director of the

Project Management Department

JOINT-STOCK COMPANY

"UZMETKOMBINAT"

TECHNICAL TASK

"For design, supply of equipment, provision of installation supervision services, adjustment and commissioning of the melting furnace for mould flux "

Bekabal city

November, 2021

**SECTION 1. GENERAL INFORMATION**

* 1. **Entitlement**

The present Technical Assignment was prepared by the Customer in order to select the manufacturer of the melting furnace for the preparation of mould flux in the workshop for the consumer goods production.

**1.2 Information about novelty (year of manufacture / release of equipment)**

The supplied melting furnace must meet the following requirements in terms of quality, reliability and manufacturer's warranty:

**-** the supplied equipment must be new (goods that were not in use, in repair, including those that were not restored, for which the replacement of components was not carried out, consumer properties were not restored).

- year of production not earlier than 2021;

- the supplied equipment must comply with the requirements of this technical assignment;

- it is not allowed to use previously used or remanufactured components, parts, assemblies, including basic equipment structures.

- the guarantee for the melting furnace must be at least 36 months from the date of signing the Act on the equipment commission. The warranty must be extended for the time the equipment is being repaired from the moment it was stopped;

**1.3 Development / Manufacturing Steps**

1. Submission of a technical and commercial proposal for the supply of acid waste disposal and processing equipment;

2. Participation in the competitive selection:

3. Conclusion of a supply contract:

4. Manufacturing and supply of equipment;

5. Provision of services for installation supervision, equipment adjustment, personnel training;

6. Carrying out warranty tests and commissioning.

**1.4 Development / Manufacturing Documents**

The supplier must be an authorized dealer or manufacturer of the supplied equipment.

The supplier must guarantee that for the design, supply of the equipment, provision of services for installation supervision, adjustment and commissioning of the melting furnace, high-quality materials, modern technologies and high-quality technical characteristics will be used. The production cycle must be certified in accordance with international standards ISO 9001, ISO 14001, OHSAS 1801 and other regulatory documents of the country of the equipment supplier.

**1.4 Stages of project implementation, manufacturing, delivery**

1. Receipt and study of the received technical and commercial proposals for the design, manufacture, supply of the melting furnace and services for installation supervision, commissioning and training;

2. Conducting a competitive selection;

3. Conclusion of a contract for the design, manufacture, supply of heating furnace equipment and services for installation supervision, commissioning and training.

4. Design, manufacture and supply of the heating furnace;

5. Installation and commissioning of the supplied furnace equipment;

6. Testing and commissioning;

7. Achievement of guaranteed indicators.

**SECTION 2. APPLICATION**

2.1. The purchased smelting furnace is used for the production of fused slag for the steelmaking workshop and welding flux.

**SECTION 3. TERMS OF USE**

**3.1 General terms of use**

The location of the production site for the installation of a new heating furnace is located in the South of the Tashkent region in the city of Bekabad, which is located in 140 km from Tashkent city and 10 km from the Bekabad railway station.

JSC "Uzmetkombinat"

Climatic conditions:

Minimum temperature: -16 ℃;

Maximum temperature: +50 ℃;

Relative humidity: 60-65%.

**SECTION 4. TECHNICAL REQUIREMENTS**

**4.1 Basic technical requirements for a new furnace**

Table №1

|  |  |  |
| --- | --- | --- |
| № | Parameters | Unit of measurement |
| 1 | Capacity, not less than kg / hour | 750-800 |
| 2 | Melt temperature | Not less than 1300 |
| 3 | Fuel | Natural gas |
| 4 | Gas flow rate | 250-300 m3/t |
| 5 | Equipment size | The equipment must be placed in an area within 44 m2 |
| 6 | Natural gas pressure | 00,5 kg/s |

**4.2 Main materials used for smelting fused slag**

|  |  |
| --- | --- |
| № | Name of the material |
| 1 | Manganese ore (Dautash) |
| 2 | Quartz sand |
| 3 | Soda ash |
| 4 | Portland cement |
| 5 | Fluorspar |

**4.3 Main technical and economic characteristics**

The supplier must provide information on the technical, economic and operational characteristics of the components and equipment of the heating furnace in accordance with the regulatory and technical documentation of the manufacturer.

3. Conclusion of a contract for the design, manufacture, supply of heating furnace equipment and services for installation supervision, commissioning and training.

4. Design, manufacture and supply of the heating furnace;

5. Installation and commissioning of the supplied furnace equipment;

6. Testing and commissioning;

7. Achievement of guaranteed indicators.

**SECTION 2. APPLICATION**

2.1. The purchased smelting furnace is used for the production of fused slag for the steelmaking workshop

**SECTION 3. TERMS OF USE**

**3.1 General terms of use**

The location of the production site for the installation of a new heating furnace is located in the South of the Tashkent region in the city of Bekabad, which is located in 140 km from Tashkent city and 10 km from the Bekabad railway station.

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Climatic conditions:

Minimum temperature: -16 ℃;

Maximum temperature: +50 ℃;

Relative humidity: 60-65%.

**SECTION 4. TECHNICAL REQUIREMENTS**

**4.1 Basic technical requirements for a new furnace**

Table №1

|  |  |  |
| --- | --- | --- |
| № | Parameters | Unit of measurement |
| 1 | Capacity | Not less than 450 kg/h |
| 2 | Melt temperature | Not less than 1300 |
| 3 | Fuel | Natural gas |
| 4 | Gas flow rate | Not more than 250 m3/t |
| 5 | Natural gas pressure | 00,5 kg/s |

**4.2 Main materials used for smelting fused slag**

|  |  |
| --- | --- |
| № | Name of the material |
| 1 | Manganese ore (Dautash) |
| 2 | Quartz sand |
| 3 | Soda ash |
| 4 | Portland cement |
| 5 | Fluorspar |

**4.3 Main technical and economic characteristics**

The supplier must provide information on the technical, economic and operational characteristics of the components and equipment of the heating furnace in accordance with the regulatory and technical documentation of the manufacturer.

The quality and technical characteristics of the supplied equipment must comply with the technical specifications of the manufacturer and confirmed by appropriate certificates. The supplier provides warranty service for the supplied equipment.

Designed:

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