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technical commission

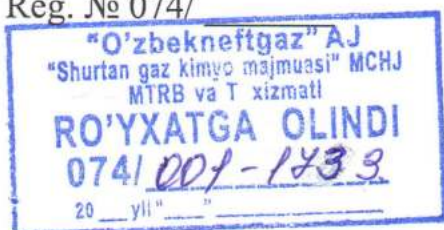
LLC «Shurtan GCC»

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« » 2021



Reg. № 074/



Technical specification

for the purchase of spare parts for the inlet collector of
the radiant section of the pyrolysis furnace BA-1101
for the needs of LLC "Shurtan GCC"



1. 1. GENERAL INFORMATION

1.1 Name and characteristics

Inlet manifold kits for the radiant section of the pyrolysis furnace BA-1101,02,03.

1.2 The basis and purpose of the purchase of the material

Basis: technical meeting protocol LLC «Shurtan GCC» №11 from 16.11.2020 under the registration number 030/14996, 25.11.2020 (1 set), annual application for 2022 (7 sets).

Purpose: ensuring uninterrupted operation of the BA-1101 pyrolysis furnace and carrying out periodic maintenance

1.3 Information about the novelty (year of production/year of issue of the product)

The delivered product must be new, not earlier than 2021 of the year of issue (which was not in use, including it was not restored).

2. SCOPE OF APPLICATION

The inlet collector of the radiant section of the pyrolysis furnace is designed for distributing the input of ethane raw materials into the radiant section of the pyrolysis furnace

The raw mixture (Ethane fraction saturated with steam) with a pressure not higher than 280 kPa and not higher than 700 ° C from the convection section through the device is evenly distributed to the section of radiant coils.

3. TERMS OF USE

3.1 General operating conditions

Estimated indicators

Description	Pressure	Temperature
Entrance to the pipeline	450 kPa	750°C.

The operating mode of the pyrolysis furnace is continuous. The GSEU installation stops for repair 1 time a year for 15 days. The inlet collector is installed in an open area with an ambient temperature of -20 +60°C.

4. TECHNICAL REQUIREMENTS

4.1 Basic technical requirements

l/p	Name of spare parts	REF- No.	Material	Quantity
1	Pipe. Seamless Steel.	Part No.12301. O.D.219,1X 8,18 AW Thk X 1316 Long. Dwg. BD6-2143-BA123.	A-312-Gr/ TP-347H.	16 pcs.
2	Cap plate. Forged steel.	Part No.12305. DIA 219,1 X 51Thk (36Thk after milling) see detail -2. Dwg. BD6-2143-BA123.	A-182-GR. F-347-H.	16pcs.
3	Lug. Rolled Steel.	Part No.12308. 180x275x12 As Per Detail 3 On Dwg. BD6-2143-BA123.	A-240 - Type 304 H.	16pcs.
4	Pipe clamp. Rolled Steel.	Part No.12310. Pipe clamp from 25x3 strip as per detail on Dwg. BD6-2143-BA123.	A-240-Type 304 H.	16pcs.
5	Lug. Rolled Steel.	Part No.12311. 180x280x12 As per detail 5 On Dwg. BD6-2143-BA123.	A-240-Type 304 H.	16pcs.
6	Half Cplg. Forged steel.	Part No.12312. Size 0,5"-3000 lbs Socket weld ANSI B 16.11.	A-182-F-347 H.	8pcs.



		(See Section A-A on Dwg. BD6-2143-BA123).		
7	Pipe. Seamless Steel.	Part No.12313. 21.3 O.D.x2.77 AW x 800 Long.(To Cut).(See Section A-A on Dwg. BD6-2143-BA123).	A-312-Gr/ TP-347H.	4pcs.
8	Red. Cplg. Forged steel.	Part No.12314. Size 0,5" x 0.25-3000 lbs Socketweld ANSI B 16.11.(See Section A-A on Dwg. BD6-2143-BA123).	A-182-F-347 H	8pcs.
9	Lot Pipe. Seamless Steel.	Part No.13501. O.D.141.3x 6.55 AW Thk X 1000,0mm Random Length.(incl. 5% cutting length) Dwg. BD6-2143-BA135-1.	A-312-TP-347H*.	8pcs.
10	Weld Cross. Seamless Steel.	Part No.13502. O.D.219.1x 8.18 AW Cross Fitting. Dwg. BD6-2143-BA135-2.	A-403-TP-347H*.	8pcs.
11	Weld Reducer. Seamless Steel.	Part No.13503. O.D.219.1x 8.18 AW. X 141.3O.D. x6.55 A. W Concentric Reducer. Dwg.. BD6-2143-BA135-2.	A-403-TP-347H*.	8pcs.
12	Weld Cap. Seamless Steel.	Part No.13508. O.D.219.1x 8.18 AW. Thk. Semi-ellipsoidal Ansi Standard. Dwg. BD6-2143-BA135-2.	A-403-TP-347H*.	8pcs.
13	Plate. Rolled Steel.	Part No.13509. 10Thk x 130 Dia. Shaped as shown on Dwg. BA152-2, BD6-2143-BA135-2(Det.5).	TP-304.	16pcs.
14	Pipe. Seamless Steel.	Part No.13510. O.D. 88.9x5.49 AW. Thk.x 1500 Long. Random Length (To Cut). Dwg.BD6-2143-BA135-2.	A-312-TP347H*.	2pcs.
15	Plate. Rolled Steel.	Part No.13513. 230 x200 x10 Thk. (See Det.3 on Dwg. BD6-2143-BA135-2.	A-240-347.	8pcs.

The supplied spare parts must be provided assembled based on the drawing of paragraph 14, and must have a certificate of non-destructive testing of the welded joint (seam).

The following documents must be submitted in the technico-commercial proposal:

- The supplier **must be a manufacturer or an official dealer of the manufacturer (it is mandatory to provide a copy of the dealer certificate).**
- The supplier is obliged to provide detailed drawings before delivery of the goods.
- The supplier is obliged to provide a certificate of conformity of the manufacturer.
- The supplier is obliged to provide a document on the manufacturer's letterhead, which specifies the conditions for fulfilling the warranty obligations.
- The supplier provides a quality guarantee for the product in accordance with the manufacturer's



warranty.

- Provide a certificate of origin of the Goods, specify the place and country of the manufactured product in the scope of the technical proposal.
- It is necessary to provide Certificates of materials indicating the chemical analysis and strength characteristics.
- It is necessary to provide a letter of feedback from at least four other customers who are currently using the products offered. Feedback letters should be provided on the official letterheads of the customers.
- It is necessary to provide a list of companies that are users of this material.

If the above documents are not provided in the technical proposal, this technical proposal will be considered as not relevant. Documents that have not been submitted will not be requested again.

4.2 Marking requirements

The marking must comply with the requirements of the state standards of the Republic of Uzbekistan, which do not contradict and are not inferior to international generally accepted standards. The marking of the goods must contain the decoded name of the equipment, the name of the manufacturer, the address of the manufacturer's location and the date of issue.

4.3 Size and packaging requirements

The packaging must ensure the complete safety of the cargo from all kinds of damage and spoilage, precipitation, water, pollution, vibration during its transportation and delivery, taking into account possible overloads and long-term storage. Packaging must comply with the requirements of state standards of the Republic of Uzbekistan and internationally accepted standards. The packaging must strictly comply with the product labeling. The cost of containers, packaging, labeling should be included in the price of the product. Containers cannot be returned.

5. REQUIREMENTS FOR THE RULES OF DELIVERY AND ACCEPTANCE

5.1 Delivery and acceptance procedure

The goods must be accepted after the entrance control and drawing up an act in accordance with the contract.

The customer accepts the goods according to the quantity, quality and completeness of the batch, and external signs of the safety of the goods (the presence of mechanical damage, visible deformation of individual components and parts of the goods and other similar obvious signs of damage) in accordance with the transport and accompanying documents, quality certificates of the manufacturer.

The parties hereby agree that the visual inspection of the goods performed by the Customer's representative must be absolute and final for the parties to determine compliance with the quantity, completeness and external signs of the safety of the goods during its transportation.

When accepting the goods from the carrier, the Customer (consignee) is obliged to check the conformity of the goods with the information specified in the contract, specifications or additional agreements to it, as well as in transport, accompanying documents, quality certificates of the manufacturer.

If, upon receipt of the goods after receiving it from the carrier, a discrepancy of the goods in terms of quality / quantity is revealed, the Customer (consignee) is obliged to suspend the acceptance of the goods, take measures to ensure the safety of the goods and prevent mixing with other homogeneous goods and notify the Seller about this in writing. form within 5 (five) working days from the date of detection of deficiencies.

The seller is obliged to send to the Customer (consignee), no later than 10 (ten) working days from the date of receipt of the notification, a response about the participation of his representative in the further acceptance of the goods. The Seller's representative must appear to participate in the acceptance

of the goods within a reasonable period not exceeding 20 (twenty) calendar days from the date of receipt of the notification.

If the Seller refuses to participate in the acceptance or does not respond to the notification, or his representative does not appear during the period specified in the contract, the Customer has the right to make further acceptance of the goods by quality/quantity, with the participation of a representative of the Chamber of Commerce and Industry or an independent expert organization with the preparation of an act in accordance with the contract, or unilaterally.

The following information must be specified in the product acceptance certificate:

- name of the Customer (consignee) of the goods;
- the number and date of drawing up the act, the place of acceptance of the goods, the time of the beginning and end of acceptance of the goods;
- surnames and initials of the persons taking part in the acceptance of the goods, their positions, information about the documents confirming the powers of these persons to participate in the acceptance of the goods, their details;
- names and addresses of the manufacturer of the Seller;
- date and number of the notification about the call of the Seller's representative;
- the detected non-conformity of the product, its nature;
- indication of the contract number and specification;
- name and labeling of goods according to shipping documents for the corresponding consignment of goods;
- number of seats and weight of metal products according to shipping documents;
- condition of containers (packaging);
- the weight of the identified shortage for each place;
- the number of the shipping document and the quality certificate;
- size, steel grade, batch number, label availability;
- conclusion on the nature of the identified defects of the goods and the reason for their occurrence.

The act must be signed by all persons who participated in the acceptance of the goods..



5.2 Requirements for the transfer of technical and other documents to the customer during the delivery of equipment

To confirm the novelty of the equipment, the supplier must, at the time of delivery, submit the following documents confirming the novelty, quality and compliance with the terms of reference of the equipment proposed for delivery:

- a copy of the certificate of conformity (valid at the time of the auction) confirming compliance with the requirements of regulatory documents;
- samples of warranty cards.

The Contractor guarantees to the Customer that the equipment purchased by him meets the technical characteristics of the equipment declared by the customer of this equipment.

It is necessary to provide Certificates of materials of strength characteristics and provide Certificates of conformity of the material. It is necessary to provide the manufacturer's quality certificates in the scope of the technical proposal and Specify the place and country of the manufactured product.

6. STORAGE REQUIREMENTS

The storage of the goods must be carried out in accordance with the "Instructions for acceptance, inspection and storage of equipment" of the manufacturer.

7. REQUIREMENTS FOR THE SCOPE AND / OR DURATION OF GUARANTEES

The supplier is obliged to provide a document on the manufacturer's letterhead, which specifies the conditions for fulfilling the warranty obligations.

The supplier provides a quality guarantee for the product in accordance with the manufacturer's warranty. The warranty period of operation must be at least 12 months from the date of putting the spare

parts into operation or 18 months from the moment the spare parts arrive at the warehouse of LLC "Shurtan GCC". The supplier of the goods during the warranty period must replace the delivered goods that have failed at his own expense, provided that the defect (breakdown) of the product was not the fault of the customer..

The supplier must manufacture and deliver the goods within **ninety (90) calendar days** from the date of receipt of funds to the corresponding settlement account.

8. SAFETY REQUIREMENTS

The goods must meet the safety requirements established by the legislation of the Republic of Uzbekistan during storage, transportation and operation.

General safety requirements for the operation of the Installation should be given in the special sections of the operating manual.

9. QUALITY AND CLASSIFICATION REQUIREMENTS

The product must be of high quality and meet the requirements for its purpose, have the necessary consumer properties and technical characteristics, environmental and industrial safety characteristics. The quality of the goods must be confirmed by a quality certificate issued at the Manufacturer's factory

10. ADDITIONAL (OTHER) REQUIREMENTS

Upon delivery, the Supplier must submit documents confirming the compliance of the products offered by him with the established requirements:

- it is necessary to provide a quality passport (original or a copy certified by the Supplier's seal) for the delivery batch.
- the supplier is also responsible for the compliance of the technical parameters and for the quality;
- if the products do not meet the quality requirements, the products are subject to return, and the Supplier is responsible for all costs of its purchase and delivery.

Copies of these documents, duly certified as specified in this procurement documentation, must be included by the participant in the composition of its proposal.

11. REQUIREMENTS FOR THE QUANTITY, CONFIGURATION, AND DELIVERY TIME (PERIODICITY)

Sets of the input collector of the radiant section of the pyrolysis furnace in the **amount of 8 (eight) sets**.

Terms of delivery according to the DAP delivery basis. One-time delivery in full according to section 4.1. of the terms of reference.

Transport delivery: DAP-Republic of Uzbekistan, Kashkadarya region, Guzar district, Shurtan village, 180300

12. REQUIREMENT FOR THE FORM OF THE SUBMITTED INFORMATION

The text information should be provided in Russian and English, in paper and electronic versions (1 copy).

13. LIST OF ACCEPTED ABBREVIATIONS

No l/p	Abbreviation	Explanation of abbreviation
1	GSEU	Hot section of the ethylene plant

14. LIST OF APPENDICES

No l/p	Name of the appendices	Page number / Number of sheets
1	A drawing of the existing inlet manifold is attached..	1 page

* Note: The developer is responsible for the correctness of filling in and unfilled items.



