**FORM**

|  |  |
| --- | --- |
| **For supply of main ventilation fan** |  |

**Customer details:**

Mine, union\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

name of mine, pit, shaft or shop *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

Е mail:*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

Telephone/Fax:*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

Contact person (full name, position, tel.): \_\_\_\_\_\_\_\_\_\_*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fan commissioning term (planned):*\_\_\_\_\_\_\_\_\_*

Facility: under construction, refurbishment, operating. (underline the necessary).

The organization implementing the fan installation project.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Fan operating conditions** (all items must be filled)**:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Parameter name** | **Unit of measure** | **Number** |
| **1** | Fan designation as per GOST 11004-84 or Terms of Reference | - | *\_\_\_\_\_* |
| **2** | Fan speed | r/min | *\_\_\_\_\_* |
| **3** | Fan design version\* | - | left-hand  or right-hand |
| **4** | Supply | m3/s | *\_\_\_\_\_* |
| **5** | Static pressure | daPa | *\_\_\_\_\_* |
| **6** | Fan operation feature |  | suction  injection |
| **7** | Displaced air temperature | Сº | *\_\_\_\_\_* |
| **8** | Displaced air dust content | mg/m3 | *\_\_\_\_\_* |
| **9** | Displaced air relative humidity | % | *\_\_\_\_\_* |
| **10** | Content of harmful impurities in the displaced air | % | *\_\_\_\_\_* |
| **11** | Control method | - with a guide apparatus  -by changing the impeller blade stagger angle  - by changing the rotation speed | |
| **12** | Arrangement of guide and straightening device drives when viewed from the drive end |  | Left  Right |
|  | \**Note: 1. Fans ВЦД-31,5М2 and ВЦ-31,5М2 – when viewed from the side of the drive motor, the left-hand is the mine fan rotating clockwise. When ordering for a mine fan unit consisting of two fans (operating and standby), indicate: one left-hand and one right-hand fan.*  *2. Fans ВЦД-47,5УМ; ВЦД-42,5; ВОД-30М; ВОД-40М; ВОД-50, ВО-Р3 have one design version, i.e. there are no separate left-hand and right-hand models.* | | |

1. **Completeness of delivery**

|  |  |  |
| --- | --- | --- |
| Number of fans to be supplied, pcs. | with set of means for reversing and switching the air stream | without set of means for reversing and switching the air stream\* |
|  |  |
| \**Note: For a mine fan installation, consisting of two fans (working and standby), the order shall comprise one fan with set of means for reversing and switching the air stream and one fan without set of means for reversing and switching the air stream.* | | |

1. **Fan electric equipment**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Parameter name** | **Unit of measure** | **Number** |
| **1** | Main drive power supply network voltage | V |  |
| **2** | Auxiliary drive power supply network voltage | V |  |
| **3** | Power supply network frequency. | Hz |  |
| **4** | Main drive motor type |  | synchronous asynchronous |
| **5** | Main drive power | | |
| Number of electric motors *\_\_\_\_\_\_\_\_* pcs.  Power of one electric motor *\_\_\_\_\_* kW | | To be calculated |
| **6** | Frequency converter, set consisting of: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Offered by the Supplier | | **Yes**  **No** |
| **7** | Control and automation systems, consisting of: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Offered by the Supplier | | **Yes**  **No** |
| **8** | Other equipment Set consisting of: *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | **Yes**  **No** |
| **9** | SPTA comprising: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Offered by the Supplier | | **Yes**  **No** |

1. **Additional requirements:**

*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

**Signature of Customer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**(position, full name, signature, date)**

**Approved (on behalf of the Customer) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ LS**

**(position, full name, signature, date)**