

Field facilities construction of Siskosininskoe gas field

Information about the object:

Field facilities construction of Siskosininskoe gas field in the 'Eurotech' CJSC License Area.

I tranche of Khanty-Mansiisk autonomous district of the Tyumen Region

Gas turbine electric power station construction at Siskosininskoe gas field has become a part of the general concept of development of power generation sector at the territory of Beryozovskiy region.

'BPA' Company together with 'Eurotech' CJSC have started the project of field facilities construction of Ugra. About 15 million m³ of gas has is recovered a year at Kamunno-Mysskoe gas field on Yamal. It is planned to recover 15 billion of m³ of gas.

In May 2007 'Eurotech' CJSC paid 540 billion of rubles to win the auction for the right to use subsurface mineral resources for the purpose of exploration, surveying, and hydrocarbon production of Siskosininskoe gas field. Gas reserves of this gas field are 8.64 billion of m³. Siskosininskoe gas field is situated at Beryozovskiy region of Khanty-Mansiisk autonomous district of the Tyumen Region, 40 km from Igrim town. It belongs to Beryozovskiy gas-bearing zone of Transural oil-and-gas bearing region. Siskosininskoe gas field was discovered in 1961.

Description of corporate customer:

Khanty-Mansiisk autonomous district – Ugra takes the first rank in hydrocarbon production (57% of the total volume of production in the country) and electric-power generation (almost 7.3%), total production of industry products (more than 8.8%); it takes the second rank in collection of taxes and other obligatory payments to State budget (11,4%), the total volume of investment into equity (about 6%), natural gas extraction (4.7%).

Siskosininskoe gas field is situated at Beryozovskiy region of Khanty-Mansiisk autonomous district of the Tyumen Region, 40 km from Igrim town. It belongs to Beryozovskiy gas-bearing zone of Transural oil-and-gas bearing region. Siskosininskoe gas field was discovered in 1961. Siskosininskoe gas field is considered to be simple in structure and small in deposit.



The objects of construction:

"BPA" Company has got the task to perform a certain set of works such as: installation of electrical equipment, instrumentation and controls, alarm monitoring and reporting system to control maximum gas concentration at the territory of the object, cabling of 0.4 kV and 10 kV, assembling overhead transmission lines of 10 kV and steel channels, lightning-discharge protector, highbay lighting of the object, satellite and radiorelay communicators, automatic telephone station, fire alarm equipment, perimeter video monitoring, start-up and adjusting operations of automatic fire fighting system and smoke detection. The object is situated at a hard to access area with adverse climatic conditions. The total length of the mounted cables is more than 120 km. The length of overhead transmission lines, including assembled poles with electrical voltage of 10 kV, is more than 10km. More than 250 units of instrumentation and controls have been assembled.

Stages and objects:

- Gas treatment unit
- Gathering gas pipeline
- Gas field pipelines
- High voltage power line
- Group of wells
- Water wells
- Field support base

Equipment

- Block- modular technological equipment
- Tanks and vessels
- Inter-bay wiring
- Pumping equipment
- Offsite facilities
- Life support and land improvement facilities



Problem:

The works performed by 'BPA' Company are listed below:

- Construction and dismantling of TSF for the personnel
- Construction of temporary site storage room
- Storage of inventory at on-site warehouse and storage site, security service
- Construction and assembling operations at the Object
- Handover of the works according to the requirements of the law of Russian Federation.
- Warranty repairs within the warranty period

Problem Solving:

The listed below activities have been performed within the framework of the project:

1. Automation of Fire and Gas System
2. Automation of telemetry
3. Technological-process automation
4. Automation of burglar alarm system
5. Automation of fire alarm system
6. Automation of firefighting system
7. Controlling communications network
8. Telecommunication networks
9. Installation of switchgear room (including outgoing sector 6 kV)
10. Switchgear room heating
11. Electrical installation works
12. Electrical power supply of gas pipe line
13. Electrical power supply of on-site utilities of header
14. Heat tracing of pipelines
15. Heat tracing of header
16. Heat tracing of off-site utilities and water-intake facilities
17. Electric lightning of header and warehouse with propane balloons
18. Electric lightning of header and warehouse with oxygen balloons
19. Outside electric lightning. Illumination pole -29
20. Outside electric lightning. Illumination pole -24
21. Cabling (more than 260 km)
22. Gas engine gen set (including outgoing sector 6 kV)

23. Electrical power supply of header (including outgoing sector 6 kV)
24. Assembling of overhead transmission lines – 6 kV to water take-in facilities L=4,902 km
25. Construction works of overhead transmission lines – 6kV to water take-in facilities L=4,902 km
26. Assembling of overhead transmission lines – 6 kV to junction point L=6,814 km

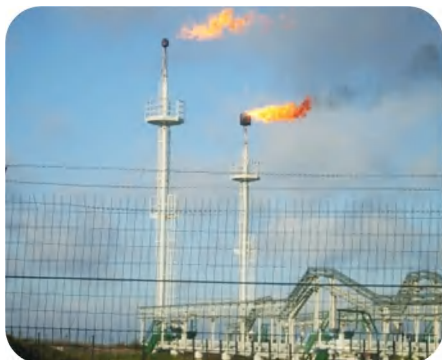
27. Construction works overhead transmission lines – 6 kV to junction point L=6,814 km
28. Complete transformer substation 2*160 KVA (including outgoing sector 6 kV)
29. Complete transformer substation 2*630 KVA (including outgoing sector 6 kV)
30. Off –site water supply utilities

Terms of project execution:

Within the frame work of the project 'BPA Company' has offered and realized a set of rational proposals, assembling works have been performed on high quality level and in terms

Opening date: March 2012

Close date: January 2013



Additional information can be
received at the below mentioned links

<http://www.bpa.ru/>

www.bpa.ru

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