



TECHNORESOURCE INTERNATIONAL



Engineering and Consulting
Services
for construction of various
facilities in Oil and Gas Sector





ABOUT OUR COMPANY

The company is a small and medium-sized business entity

TechnoResource International LLC specializes in Engineering and Consultancy Services for the Oil and Gas Industries, including highly dangerous, technically sophisticated and unique objects



Our efforts are directed to increase reliability and safe operating of these objects

OFFICIAL PARTNER OF FOOTBALL CLUB "FAKEL"



TechnoResource International LLC is an approved provider of services for "Gazprom" PJSC and certified provider of services for "NK Rosneft" PJSC



AREAS OF ACTIVITY

01

CONSTRUCTION SUPERVISION. FULL SCALE SERVICES

- Provision of engineering, technical personnel for quality control, quality assessment during construction.
- Diving-technical operations/Diver inspection
- Drilling supervision
- Consulting services during construction works
- Site engineering, geodetics
- Hydrographic office work and analysis of survey data
- Development and verification of technical documentation (method statements, operation charts, construction organization projects), with following support and consulting during approval stage of developed documentation

02

QUALITY CONTROL AND ACCEPTANCE OF MATERIALS AND EQUIPMENT. PRE-QUALIFICATION TECHNICAL AUDITS

- Surveyor services
- Official agency QC acceptance
- Expediting of suppliers
- Pre-shipment inspection
- Suppliers' audits

03

PRE-QUALIFICATION TECHNICAL AUDITS

04

PREPARATION AND INTEGRATION OF TURNOVER DOCUMENTATION DURING CONSTRUCTION WORKS FOR THE CLIENT

05

SUPPORT AND CONSULTING DURING APPROVAL STAGE OF DEVELOPED DOCUMENTATION

06

MARINE WARRANTY SURVEY

More than **250** qualified and certified specialists



Russian speaking specialists including those who speaks English



Higher technical education engineers



Possibility to provide foreign specialists



More than **5** years of work experience in international engineering supervision companies, including Germanischer Lloyd, DNV GL, TÜV, Noble Denton



Network of specialists available in situ



OUR TEAM

PARTNER AGREEMENTS

FRAMEWORK AGREEMENTS WITH:

- RiskTec (Hamburg, Germany)
- IMPaC (Hamburg, Germany)
- Maritime Shipping Bureau (Varna, Bulgaria)
- TÜV Rheinland
- **OTHER INTERNATIONAL COMPANIES**



**THOSE PARTNERS EXPAND THE BOUNDARIES OF
OUR SERVICES AND OPPORTUNITIES TO
ATTRACT STAFF**



OUR CUSTOMERS



OUR PROJECTS



2021-2023

CUSTOMER	PROJECT	PERIOD
GAZPROM TRANSGAS TOMSK LLC	Construction supervision (technical supervision) for complex build up and installation works during construction of underwater crossings on Main gas pipe line "Sila Sibiri", "Kovykta-Chayanda" part. Underwater crossing through Lena river (main and reserve lines) by microtunneling method	01.2021 – TILL PRESENT
GAZPROM TRANSGAS TOMSK LLC	Construction supervision for complex build up and installation works during construction of underwater crossings on Main gas pipe line "Sila Sibiri", "Kovykta-Chayanda" part	12.2020 – TILL PRESENT
MRTS JSC	Inspection and incoming control for manufacturing and load out work of concrete and pipe goods	03.2020 – TILL PRESENT
ROSMORPORT FSUE	Multipurpose and regular survey of port hydrotechnical structures in Kaliningrad city and Kaliningrad region	01.2020 – TILL PRESENT
GAZPROM DOBYCHA SHELF YUZHNO-SAKHALINSK LLC	Sakhalin -3. Construction supervision during the development of Kirinskoye GCF. Connection of wells and laying of the second line of the gas-gathering header (GH)	07.2020 – TILL PRESENT
HITACHI ZOSEN INOVA AG	Ensuring quality and control during inspections (tests at different stages of equipment production) in relation to technically complex equipment, monitoring the timing and volume of equipment manufacturing, as well as risk assessment when meeting the requirements of the Customer	12.2019 – TILL PRESENT
MRTS JSC	Independent technical supervision and quality control services during realization of the Project "LNG and stable gas condensate terminal "Utrenniy" based on the object: Mooring Quay, Artificial Land Parcel"	03.2019 – TILL PRESENT
GAZPROM GAZNADZOR LLC	Quality control services and acceptance of materials and equipment on fabrication plants for needs of Gazprom PJSC subsidiary companies (30 subsidiary organizations)	10.2018 – TILL PRESENT
GAZPROM GAZNADZOR LLC	Construction (hydrographic) quality control of underwater technical works at the facility "Complex for the production, storage and load out of liquefied natural gas in the area of the "Portovaya" Booster Station	06.2018 – TILL PRESENT

CUSTOMER	PROJECT	PERIOD
GAZPROM GAZNADZOR LLC	Inspection (surveyor) services by quality, quantity control of large diameter pipes for Gazprom gaznadzor LLC	12.2016 – TILL PRESENT
LUKOIL-KALININGRADMORNEFT LLC	Underwater technical work on diving inspection of hydrotechnical structures in the Kaliningrad region	08.2021
GAZPROM DIAGNOSTIKA JSC	Technical diagnostics of Gazprom UGS facilities	08.2021 – 12.2021
ONEGO SHIPPING LTD LLC	Construction supervision for: "Overhaul of the main line of offshore part of the crossing Bovanenko-Ukhta 1 gas pipeline through Baydaratskaya Bay	07.2020 – 10.2020
GAZPROM DOBYCHA KUZNETSK	Quality control for manufacturing of piping goods on Vyksa metallurgical plant JSC	03.2020 – 12.2020
MRTS JSC	Inspection quality control of piping goods at manufacturers	12.2019 – 12.2020
GAZPROM NEDRA LLC	Quality control of manufacturing and acceptance of material and technical goods at manufacturers	12.2019 – 12.2020
LUKOIL NIZHNEVOLZHSK NEFT LLC	Inspection during equipment manufacturing at Customer's purchased for IRP and LQP oilfield named after V.I.Graifer.	06.2019 – 12.2021
GAZPROM TRANSGAZ TOMSK LLC	Construction supervision services during subsea crossing pipe lay «Trunk line "Sakhalin - Khabarovsk - Vladivostok». Stage 2"	05.2019 – 12.2021

2018-2019

CUSTOMER	PROJECT	PERIOD
GAZPROM GAZNADZOR LLC	Supervision during construction of underwater crossing over the river Vuoksa, construction site 18.5 km. - 55 km., Second start-up complex" as part of the construction site "Gas pipeline branch to the city of Priozersk, Leningrad Region"	08.2018 - 04.2019
GAZPROM UGS LLC	Construction supervision services on behalf of the Customer during washing out of underground gas storage facilities No 6T, 7T, 8T, 14T as a part of the project "Reconstruction of existing facilities and construction of new objects of the water-brine complex, water intake and brine release into the Baltic Sea to achieve the project volume of 800 million cubic meters, Kaliningrad region underground gas storage."	04.2018 - 12.2020
GAZPROM GEOLOGORAZVEDKA LLC	Full scale construction supervision services during drilling preparatory works for exploratory wells No 16, 21 Khandinskoe field, wells No75,76,77,78 Kovtykinskoe gas-condensate field	09.2018 - 04.2019
SOUTH STREAM TRANSPORT B.V.	"TurkStream" Project (Russian segment): Processing and analysis of hydrographic survey data of subsea pipe laying	06.2018 - 12.2018
"GAZPROM TRANSGAS YUGORSK" LLC	Construction supervision during overhaul repair of the subsea pipeline crossings for Gazprom transgas Yugorsk LLC (6 subsea crossings)	01.2018 - 12.2018
"GAZPROM DOBYCHA NOYABRSK" LLC	Construction supervision during subsea crossing of oil and gas line pipes of Chayandinskoe oil gas condensate field	02.2018 - 12.2018
GAZPROM GAZNADZOR LLC	Supervision under construction of underwater crossing through the river Bolshoy Yamsovey. Oil condensate line Urengoy-Pur-Pe (main and reserve line)	2017 - 2018
GAZPROM UGS LLC	Construction supervision for quality on behalf of the Customer of facilities as part of the project "Reconstruction of existing facilities and construction of new objects of the water-brine complex, water intake and brine release into the Baltic Sea to achieve the project volume of 800 million cubic meters, Kaliningrad region underground gas storage."	10.2016 - 12.2018

2011-2018

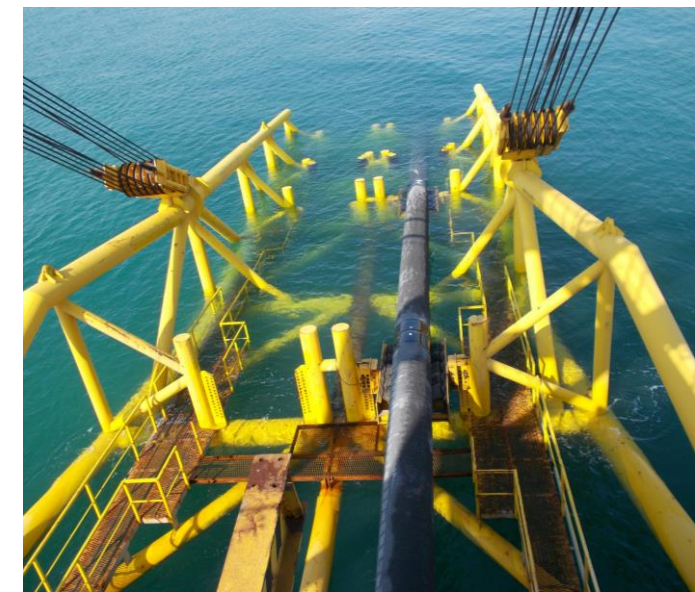
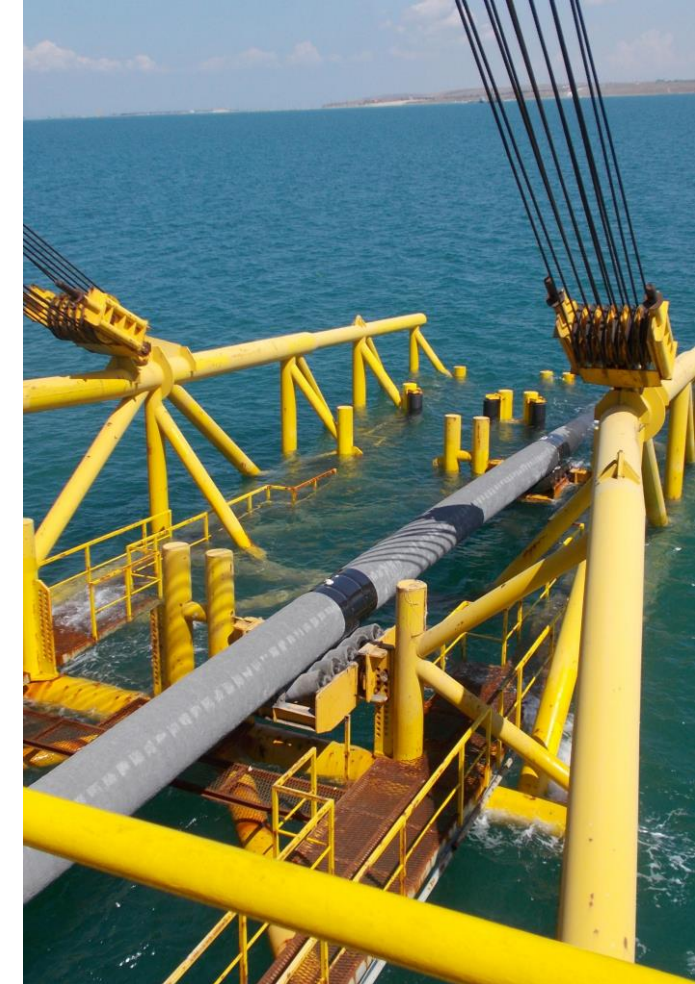
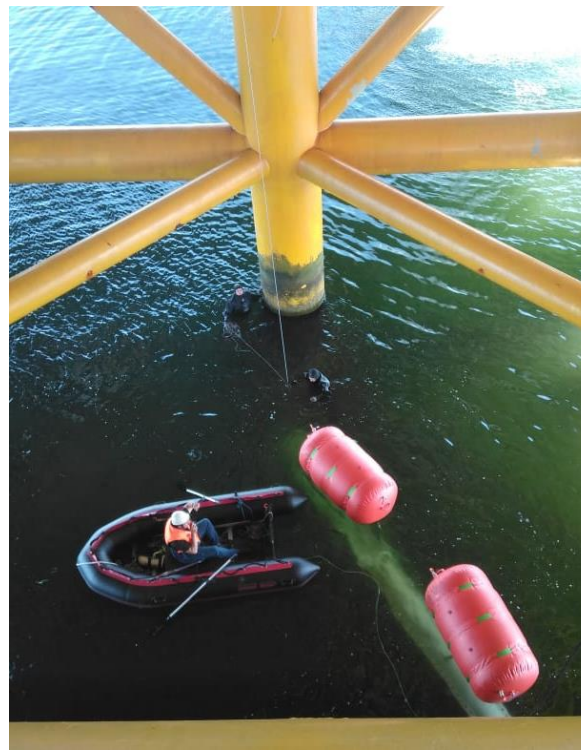
CUSTOMER	PROJECT	PERIOD
MRTS JSC	Construction of South-Eastern (deep water part) and North-Western ice protection structures on site "Sabetta sea port facilities construction, Yamal peninsula"	12.2015 - 03.2018
MORGASSERVICE LLC	Subsea gas trunk line Krasnodar region – Crimea (Strait of Kerch)	05.2016 - 12.2016
MRTS JSC	Construction of 1-st and 2-nd technological quays of the LNG and gas condensate unloading complex at a site "Sabetta sea port facilities construction, Yamal peninsula"	09.2015 - 06.2016
MRTS JSC	Arctic all-season oil loading terminal of Novoportovskoe field. Kamenny Cape, Novy Port, Yamal peninsula	12.2015 - 12.2016
STROYTRANS GAS-M LLC	Arctic all-season oil loading terminal of Novoportovskoe field. Abu-Dhabi, U.A.E	05.2015 - 07.2015
SAIPEM S.P.A JSC DIVISION	V. Filanovskogo field (first stage), Caspian Sea	05.2014 - 12.2014
MRTS JSC	Sakhalin – 3. Development of the Kirinskoe gas condensate field	05.2011 - 05.2013
MRTS JSC	Baydaratskaya bay subsea pipeline crossing (3-d and 4th lines), third party inspection	01.2011 - 11.2013



LNG LOADING, STORAGE AND REGASIFICATION TERMINAL IN KALININGRAD REGION

SCOPE OF WORK:

- Organization and execution of construction supervision on behalf of the Owner, quality control of performed works by contractors
- Diving inspections
- Documentation review and analysis (method statements, operation charts), submitted by subcontractors
- Incoming control of delivering materials and equipment
- Hydrographic surveys during installation to control the position of assembled constructions, pipelines, volumes of filled inert materials
- Control during start-up and commissioning works
- Verification and confirmation of performed works (forms KC-2, KC-3, KC-6a)

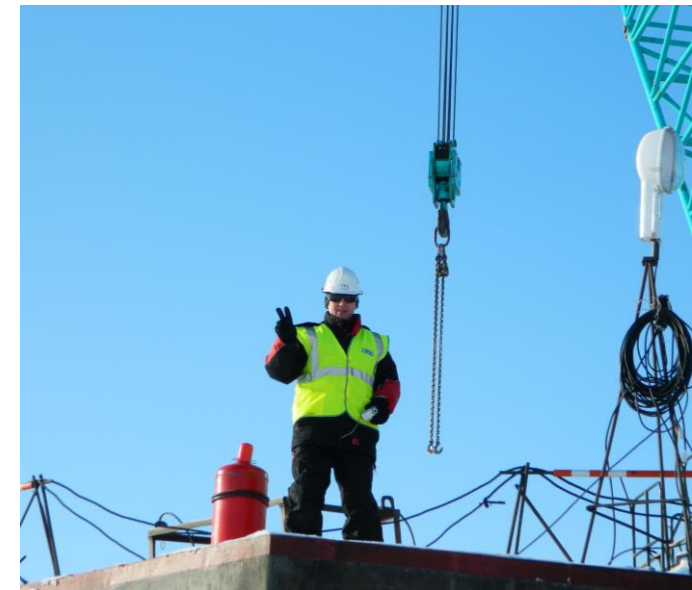




SAKHALIN - 3. DEVELOPMENT OF KIRINSKOYE GAS CONDENSATE FIELD. CONNECTION OF WELLS AND LAYING OF THE SECOND LINE OF THE GAS-GATHERING HEADER (GH)

SCOPE OF WORK:

- Organization and implementation of the Customer's construction control over the quality of work
- Review and analysis of technical documentation (WEP, TC) provided by subcontractors
- Incoming inspection of materials and equipment supplied to site
- Inspection of completeness, timeliness and quality of as-built documentation
- Confirmation of actually performed work as part of the monthly handover and acceptance of services rendered
- Confirmation of actually performed work according to KS-2, KS-3, KS-6a forms





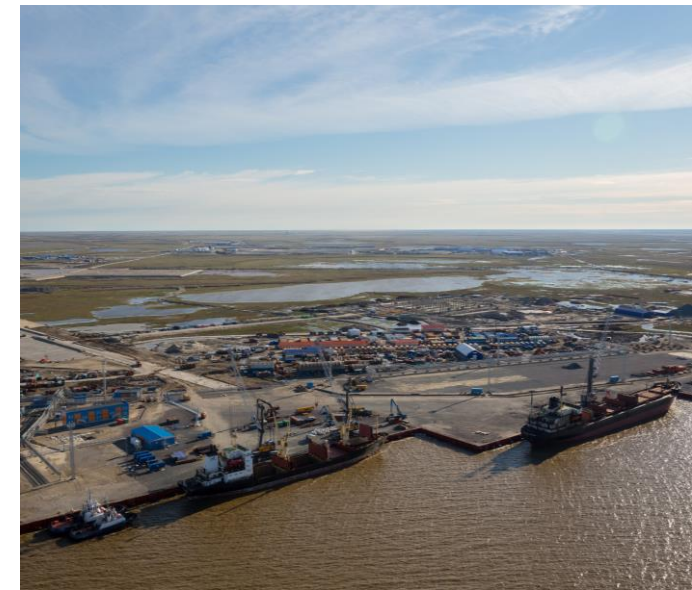
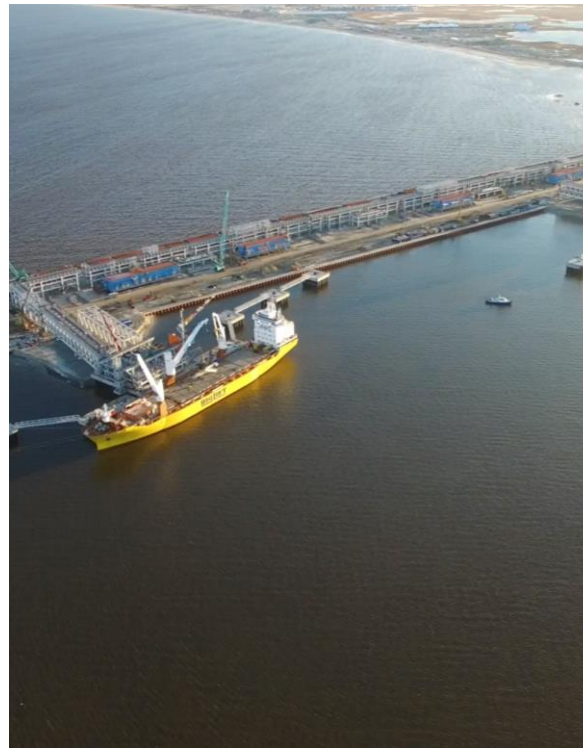
SEA PORT FACILITIES CONSTRUCTION, SABETTA, YAMAL PENINSULA

SCOPE OF WORK:

- Technical audits
- Control of Customer personnel readiness to start the works, according to the requirements of regulatory documents
- Method statements verification
- Third party inspection and quality control during construction and installation works
- Third party inspection services to ensure the compliance with project design and quality of construction
- Project field engineering support

PROJECTS:

- Sea port Sabetta
- Sea port facilities (South-Eastern (deep water part) and North-Western ice protection structures)
- Process rack foundation of the LNG and gas condensate unloading complex





V. FILANOVSKOGO FIELD (FIRST STAGE), CASPIAN SEA

SCOPE OF WORK:

- Consulting
- Preparation of as-built documentation
- Contractor supervising inspection

PROJECTS:

- Transport and installation of offshore platforms Ice-resistant Stationary Platform(LSP1), Central Processing Platform (CTP), Wellhead Platform (BK), Accommodation Platform-1





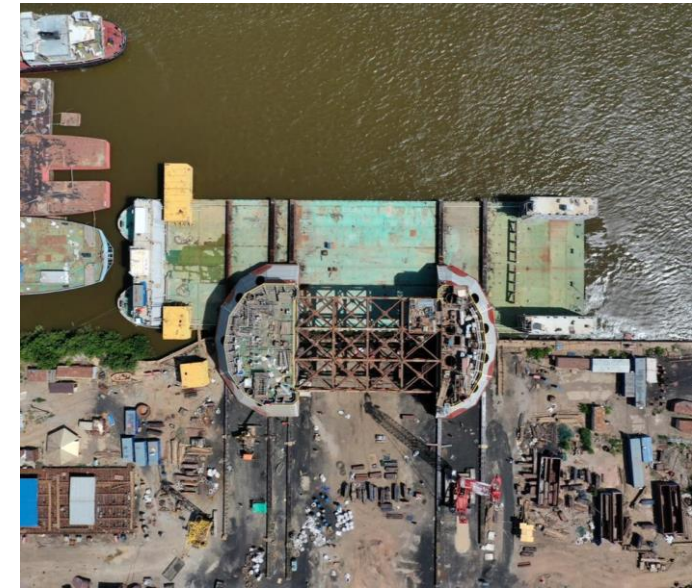
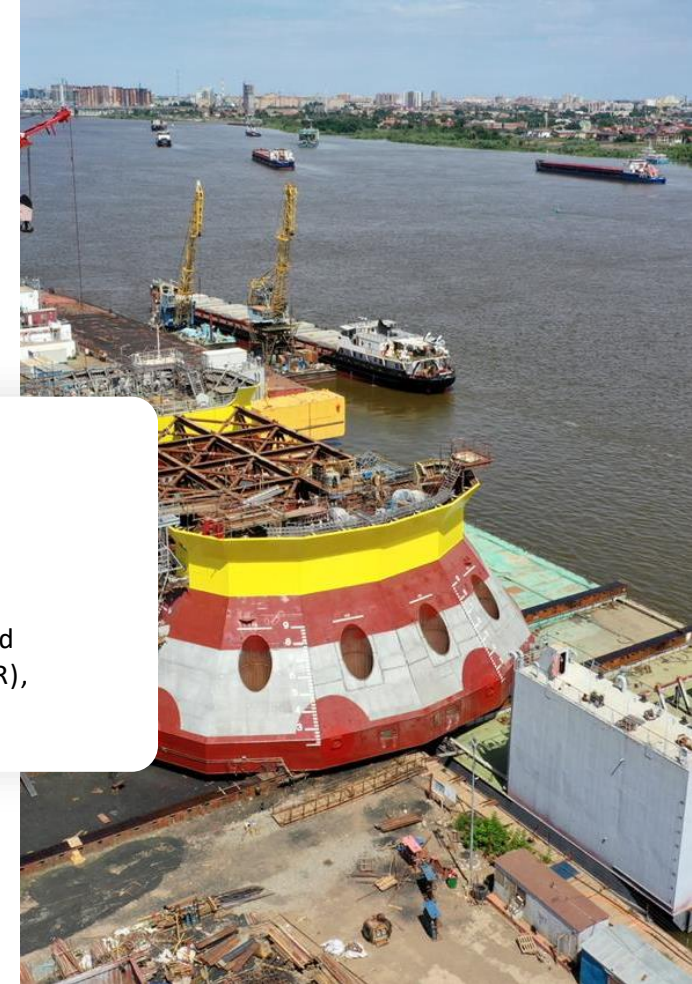
FIELD NAMED AFTER GRAIFER, THE CASPEAN SEA

SCOPE OF WORK:

- Inspections at Manufacturers'
- Review of technical documentation
- Expediting

PROJECTS:

- Inspection during equipment manufacturing at Customer's purchased for Ice Resistant Stationary Platform (IRP-R) and Living Quarter Platform (LQP-R), (1st stage of development)





ARCTIC ALL-SEASON OIL LOADING TERMINAL OF NOVOPORTOVSKOE FIELD. ABU-DHABI, U.A.E

PROJECTS:

- Construction of Arctic loading terminal (ALTS)

SCOPE OF WORK:

- Third party inspection during manufacturing
- Quality control
- Start-up and commissioning control





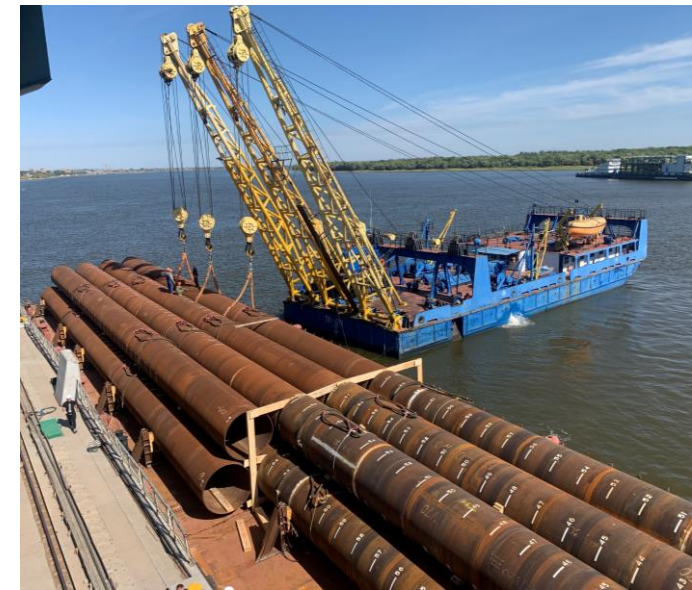
GAS TRUNK LINE SYSTEM BOVANENKOV- UHTA

SCOPE OF WORK:

- Project field engineering support
- Review and analysis of documentation submitted by subcontractors, comparative analysis of applied technologies
- Readiness evaluation of subcontractors
- Participation in engineering meetings
- Consulting services in technical part of the project management
- Control of fabrication of pipes ballast (concrete) coating
- Development of method statements for marine and onshore parts
- Marine warranty survey

Проекты:

- Линейная часть, 2-я нитка.
Подводный переход через
Байдарацкую губу
(3-я и 4-я нитки)





DEVELOPMENT OF THE KIRINSKOGOE GAS-CONDENSATE FIELD

PROJECT:

- Construction of the subsea production system facilities

SCOPE OF WORK:

- Project field engineering support
- Review and analysis of documentation submitted by subcontractors
- Comparative analysis of technologies, applied by subcontractors
- Readiness evaluation of subcontractors
- Participation in engineering meetings
- Consulting services in technical part of the project management
- Development of method statements for marine and onshore parts





INSPECTION (SURVEYOR) SERVICES - QUALITY AND QUANTITY CONTROL OF LARGE DIAMETER PIPES ON BEHALF GAZPROM GAZNADZOR LLC ON OVER 150 LOCATIONS

PROJECT:

- large diameter pipes, including pipes for trunk lines

SCOPE OF WORK:

- Control of lifting appliances and slings.
- Visual and instrumental – if necessary quality control of large diameter pipes during loading, rejecting the pipes with not acceptable damage or defects.
- Control of compliance with approved process flow diagrams during pre-loading works.
- Visual inspection of rolling stock, condition, fixation elements, visible pipe parts and separation.
- Visual and instrumental – if necessary quality control of pipes, dimensioning quality control with assessment of detected defects





QUALITY CONTROL AND ACCEPTANCE OF MATERIALS AND EQUIPMENT AT MANUFACTURERS' FOR THE NEEDS OF GAZPROM PJSC SUBSIDIARIES

ПЕРЕЧЕНЬ ОКАЗЫВАЕМЫХ УСЛУГ:

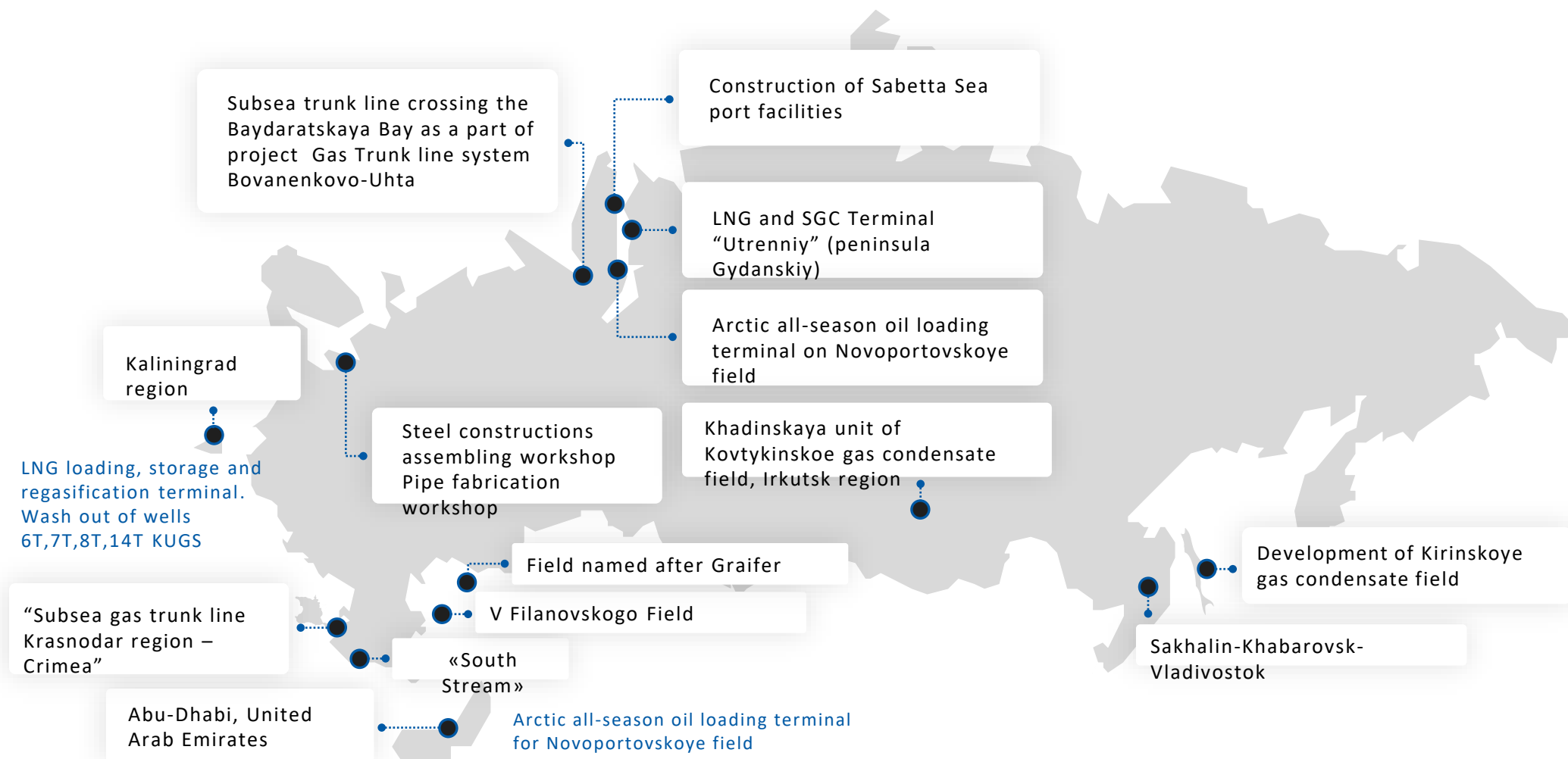
- Piping goods
- Pipeline fittings
- Gas-pumping and power-mechanical equipment
- Petrochemical, gas distribution and pumping equipment
- Pipeline accessories
- Drilling and gas production equipment

PROJECT:

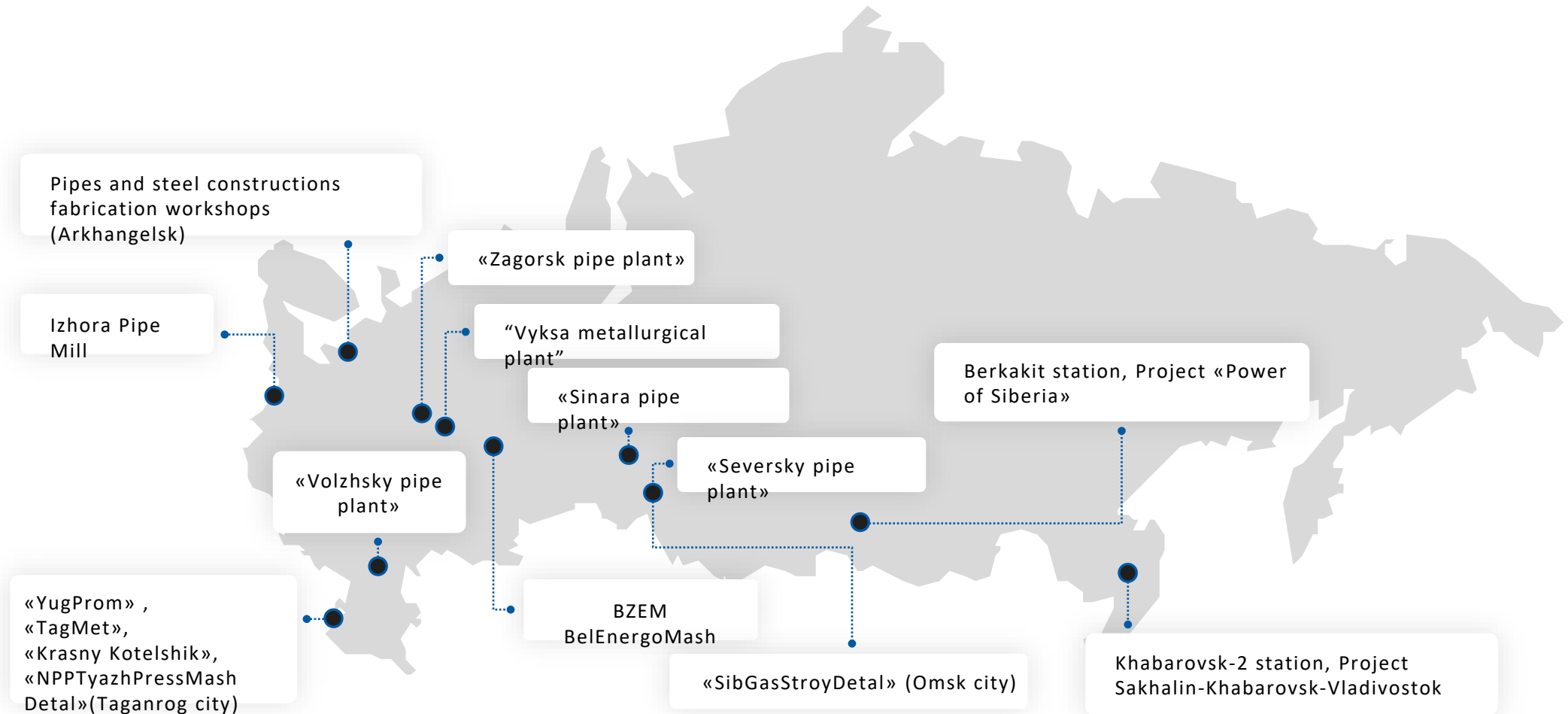
- Volzhsky pipe plant
- Zagorsk pipe plant
- Izhora pipe plant
- Sinara pipe plant
- Taganrog metallurgical plant, etc



GEOGRAPHY OF OUR WORKS



GEOGRAPHY OF OUR WORKS



REFERENCES



GAZPROM GAZNADZOR LLC



GAZPROM INVEST LLC



GAZPROM UGS LLC



GAZPROM TRANSGAS TOMSK LLC



GLOBAL MARITIME



HITACHI ZOSEN INOVA



MRS MORSKIE PROEKTY LLC (P.1)



MRS MORSKIE PROEKTY LLC (P.2)



**MEZHREGIONTRUBOPROVODSTROY
JSC**



MRS ENGINEERING LLC

CERTIFICATES



**SELF-REGULATING
ORGANIZATIONS OF BUILDERS
SRO CERTIFICATE**



**SELF-REGULATING
ORGANIZATIONS OF
PROSPECTING ENGINEER
SRO CERTIFICATE**



**ISO 9001-2015 QUALITY
MANAGEMENT SYSTEM
CERTIFICATE**



**CONCLUSION ON
ORGANIZATIONAL TECHNICAL
READINESS (OTG)**



**VOLUNTARY CERTIFICATION
SYSTEM INTERGASSERT FOR
CONSTRUCTION SUPERVISION
AND UTW**



**VOLUNTARY CERTIFICATION
SYSTEM INTERGASSERT AS AN
INSPECTION BODY**



ACCREDITATIONS AND ATTESTATIONS



TEST LAB

"TECHNORESOURCE INTERNATIONAL" LLC



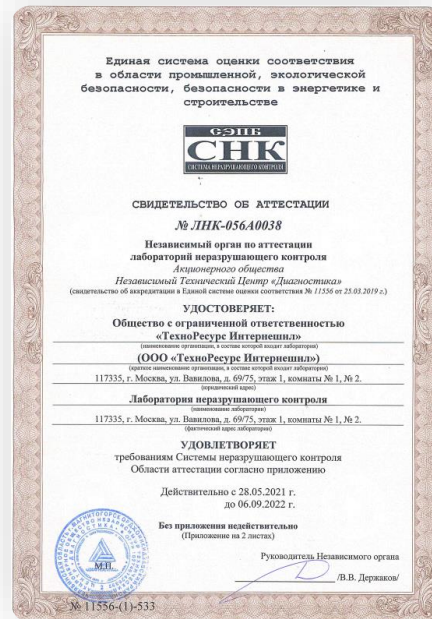
INSPECTION BODY, TYPE A

"TECHNORESOURCE INTERNATIONAL" LLC

ACCREDITATIONS AND ATTESTATIONS



**CERTIFICATE OF ATTESTATION OF
NON-DESTRUCTIVE TESTING LAB
(NDTL)**



**CERTIFICATE OF ATTESTATION OF
THE LABORATORY OF NON-
DESTRUCTIVE TESTING (LNK) FOR
X-RAY DIFFRACTION METHOD**



**CERTIFICATE OF CONFORMITY.
VOLUNTARY CERTIFICATION
SYSTEM FOR CONSTRUCTION TEST
LABS**



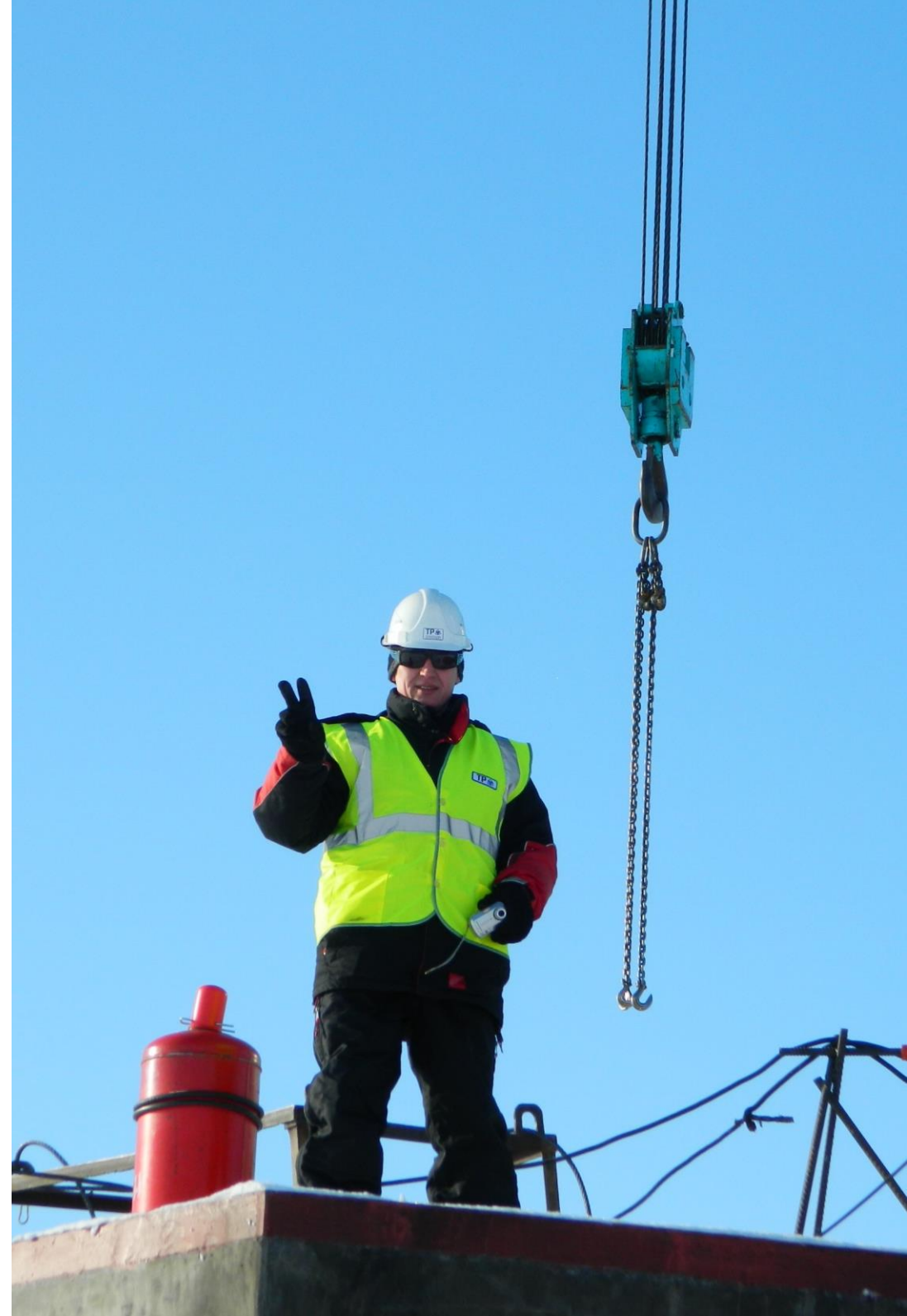
**ELECTRIC LAB
REGISTRATION CERTIFICATE (EL)**

OUR SERVICES



CONSTRUCTION CONTROL/ TECHNICAL SUPERVISION

- Series of actions performing in order to assure the exact fulfilment of the project defined and required costs, schedules, scopes and quality of executed works and construction materials. Confirmation of actual amount of executed works on as build documentation forms KC-2, KC-3, KC-6a.
- Non-Destructive Tests on construction site
- Visual assessment, documentation analysis, control of compliance with the regulatory requirements
- Full-scale inspections of contractor works
- Materials and equipment acceptance at the manufacturer
- Incoming control on construction site / overhaul repair site





OBJECTS OF CONTROL

- Oil and gas equipment
- Drilling platforms
- Operation platforms
- Subsea pipelines
- Trunk lines
- High pressure equipment
- Oil storage reservoirs
- Oil treatment plants
- LNG terminals
- Low pressure pipelines
- Underground gas storages
- Exploratory and production wells



DEPARTMENT OF UNDERWATER TECHNICAL OPERATIONS

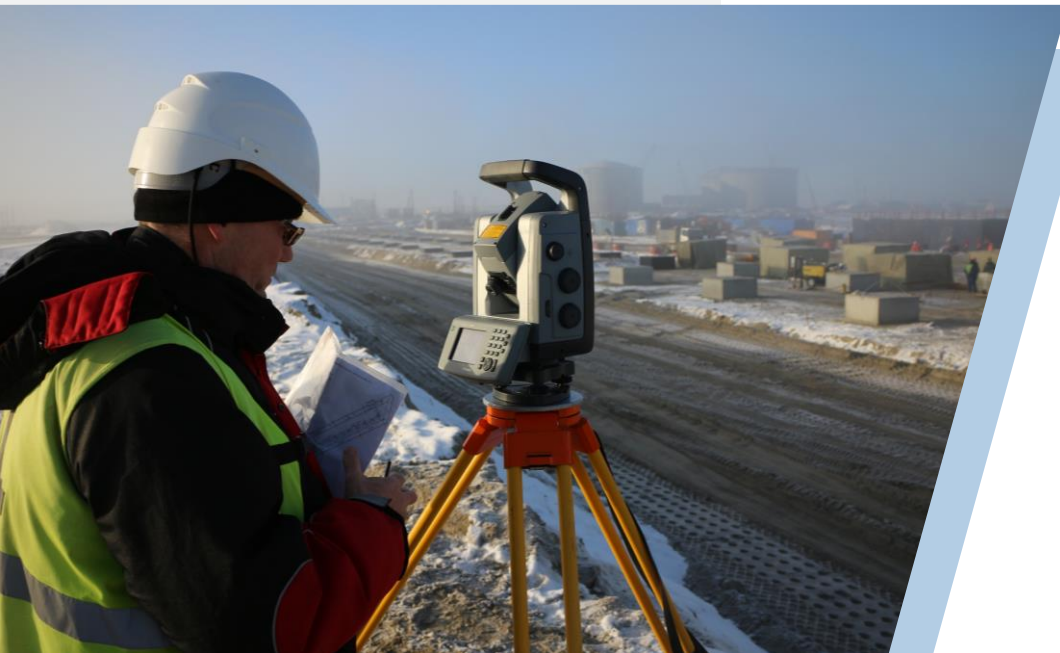
- Inspection, survey and certification of hydrotechnical structures of marine and inland water transport
- Inspections of underwater communications and hydraulic-waterworks: oil and gas pipelines, water lines, water release pipelines, electric cables, communication cables, underwater parts of mooring quays, water inlets, water discharge outlets, slips, bridge pillars, dam bodies, coast protection structures
- Engineering supervision during construction and / overhaul repair of underwater parts of structures
- Underwater hi-resolution photo and video recording



DRILLING SUPERVISION

Series of supporting actions in the field of well construction and repair, performing by high experienced specialists, directed to failsafe work execution according to codes and specifications and project documentation, including:

- Ensure the correspondence of contractors works to project solutions during well drilling
- Safety control of drilling works according safety regulations
- Coordination and management of drilling and service contractors works on the drill site
- Immediate guidance of drilling and service contractors personnel in case of emergency or danger
- Technical supervision of condition and operability of well drilling equipment and storage conditions of materials on drill site
- Customer reporting on progress of drilling operations



CONSTRUCTION SUPERVISION

Geodetics in construction works – series of measurements, calculations and compositions in drawings and at the site, which ensure the correct and precise arrangement of buildings and structures, according to the requirements of specifications

MAIN SCOPE OF WORK ON CONSTRUCTION STAGES:

- Geodetic support of engineering surveys
- Control of a compliance of spatial arrangements and dimensional parameters of elements, serving as a base for building up of structures
- Statistical control of positions of assembled constructions
- Control survey of elements of completely constructed object



CONSTRUCTION SUPERVISION

CONSTRUCTION SUPERVISION DURING PIPE LAYING / OVERHAUL REPAIR OF UNDERWATER CROSSINGS OF OIL AND GAS TRUNK LINES

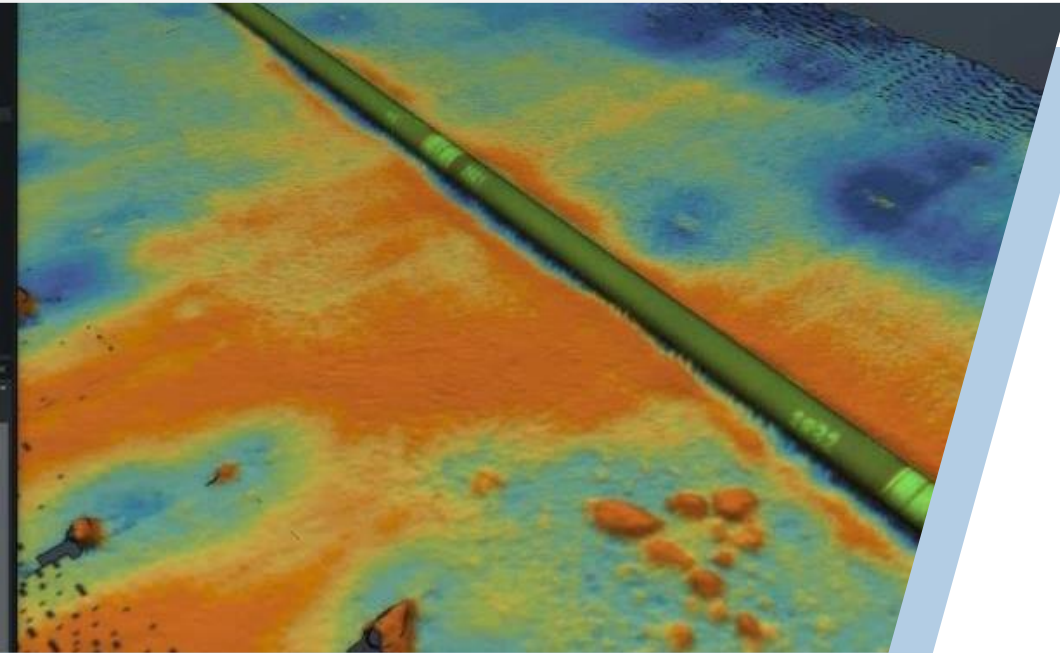
SCOPE OF WORK:

- Organization and execution of construction supervision on behalf of the Owner, quality control of performed works by contractors
- Diving inspections
- Review and analysis of documentation (method statements, operation charts, specific work procedures), submitted by subcontractors
- Confirmation of actual amount of executed works on as build documentation forms KC-2, KC-3, KC-6a.

DEPARTMENT OF UNDERWATER TECHNICAL WORKS

ANALYSIS OF HYDROGRAPHIC SURVEY DATA

- Office work and data processing is performing using the licensed software packages: EIVA and QINSy. Digital models of seabed areas and navigational charts are composed based on results of processed data
- Processing of raw survey data
- Review and technical analysis of as lay charts to identify the divergences with processed raw data
- Reporting with conclusions on data verification results
- Hydrographic survey during construction / overhaul repair of line pipes



LABORATORY CONTROL CS



OUR SPECIALISTS USE MODERN EQUIPMENT FOR DIAGNOSTICS,
VISUAL AND MEASURING CONTROL

METHODS OF CONTROL OF BASE METAL AND WELD JOINTS:

- Magnetic (MT)
- Ultrasonic (UT)
- X-ray (RT)
- Ultrasonic thickness measurement (UTM)
- Penetrating (capillary PVC)
- Hardness tests

QUALITY ASSESSMENT OF CONSTRUCTION MATERIALS,
GOODS, STRUCTURES DURING CONSTRUCTION AND
INSTALLATION WORKS IS CARRIED OUT BY CERTIFIED
CONSTRUCTION LAB



QUALITY CONTROL AND ACCEPTANCE OF MATERIALS AND EQUIPMENT



INSPECTION (SURVEYOR) SERVICES FOR
QUALITY AND QUANTITY CONTROL OF LARGE
DIAMETER PIPES FOR GAZPROM GAZNADZOR
LLC IN MORE THAN 150 LOCATIONS

GEOGRAPHY OF TRANSPORTATION OF LARGE DIAMETER PIPES:

- Gas trunk line «Power of Siberia»
- Gas trunk line «Sakhalin-Khabarovsk-Vladivostok»
- Gas trunk line «Bovanenkovo-Uhta»
- Gas trunk line «Gryazovets-Vyborg»
- Gas trunk line «Uhta-Torzhok»
- Transportation for major construction and overhaul repair

CARGO TYPE:

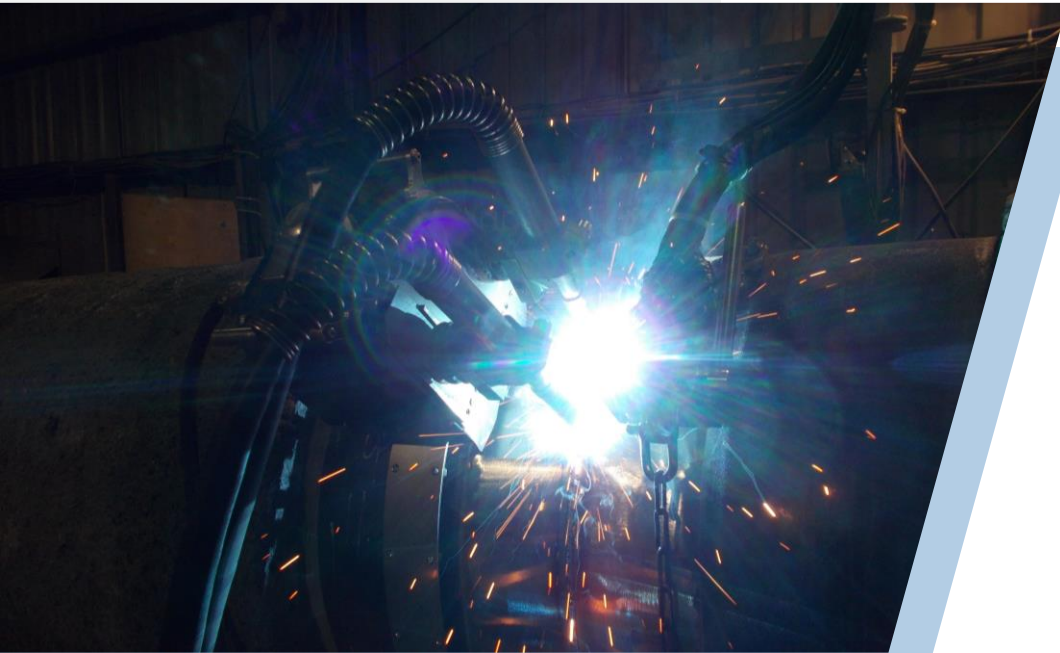
- large diameter pipes, including pipes for trunk lines



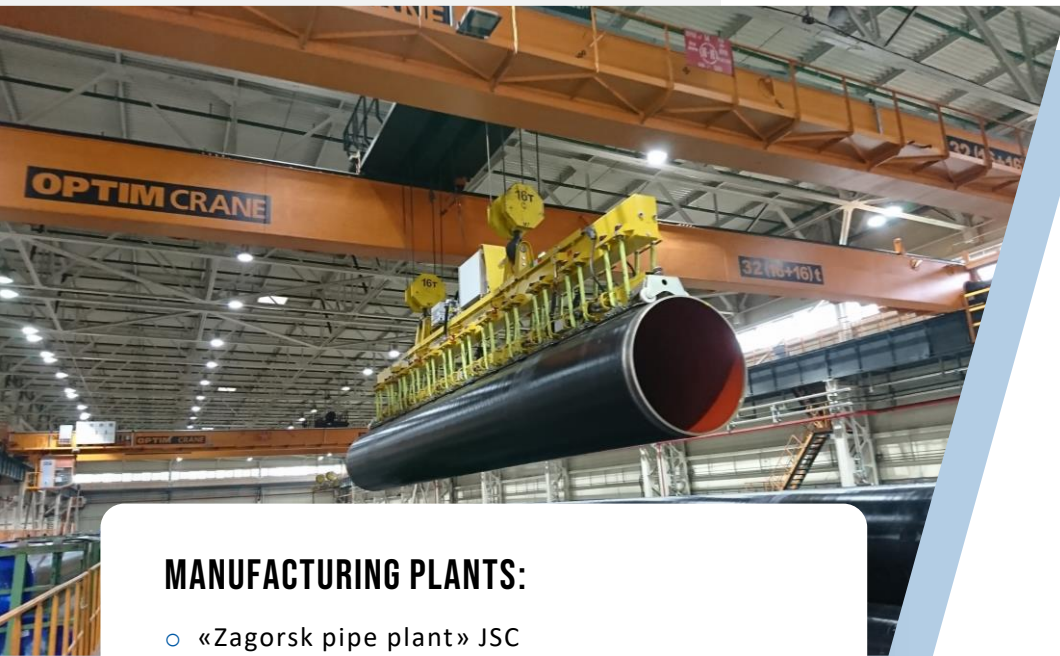
Reject rate during railroad transportation of large diameter pipes is **0,5 %** by totally allowed limit of – **1,5%**



SCOPE OF WORK:



- Confirmation of correspondence of complete production to accept to the requirements, stated in material and equipment specifications (Technical Requirements, Technical Specifications, GOST etc.).
- Quality control of manufacturing, equipment tests, units, components, parts, correspondence of materials and assembly parts to the requirements of specifications and technical documents
- Quality control of materials and equipment to accept, correspondence to the requirements of technical documents and delivery orders of materials and equipment
- Participation in commissioning tests of equipment
- Quality control of packing and conservation of materials and equipment, preparation to transportation, control of storage conditions maintenance by the supplier of accepted materials and equipment to the specification requirements, and established rules for unloading of accepted materials and equipment
- Surveyor sign and stamp in the quality certificate of material and equipment issuing by supplier plant confirms the evidence/fact of the acceptance of equipment



MANUFACTURING PLANTS:

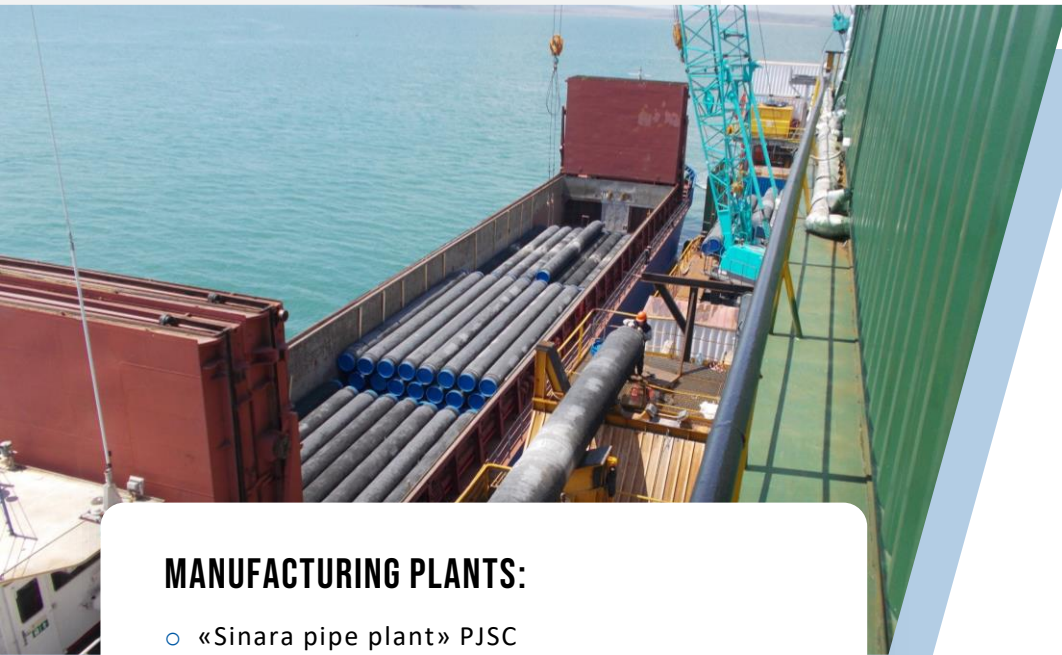
- «Zagorsk pipe plant» JSC
- «Izhora pipe mill» JSC
- «Volzhsky pipe plant» JSC
- «Pipeline coatings and technologies» LLC



QUALITY CONTROL DURING FABRICATION OF LARGE DIAMETER PIPES

SCOPE OF WORK :

- Control of the steel plate rolling process
- Control of hydrostatic tests
- Sampling control and mechanical tests, examinations (plate, pipes)
- Chemical analysis documentation control
- Coating quality control and tests
- Packing, warehousing and storage control
- Signing of certificates of the end product



MANUFACTURING PLANTS:

- «Sinara pipe plant» PJSC
- «Orsk machine works» JSC
- «Seversky pipe plant» OJSC
- «Taganrog metallurgical works» PJSC



QUALITY CONTROL DURING FABRICATION OF TUBING, INSULATED LIFT PIPES, GAS LIFT PIPES, CASING PIPES

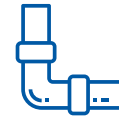
SCOPE OF WORK :

- Order specifications control
- Marking and storage control of pipe material
- Pipes control after rolling
- Screw parameters control
- Control during mechanical tests
- Dimensions control
- Packages acceptance and storage control
- Control after cutting thread



MANUFACTURING PLANTS:

- «TMK NefteGasService-Nighevnartovsk» JSC
- «Plant «Sibgasstroydetal» CJSC
- «Liskimontagconstrukziya» CJSC
- «BelEnergoMash» LLC
- «NPP Speztek» LLC
- «Neftegasdetal» LLC etc.

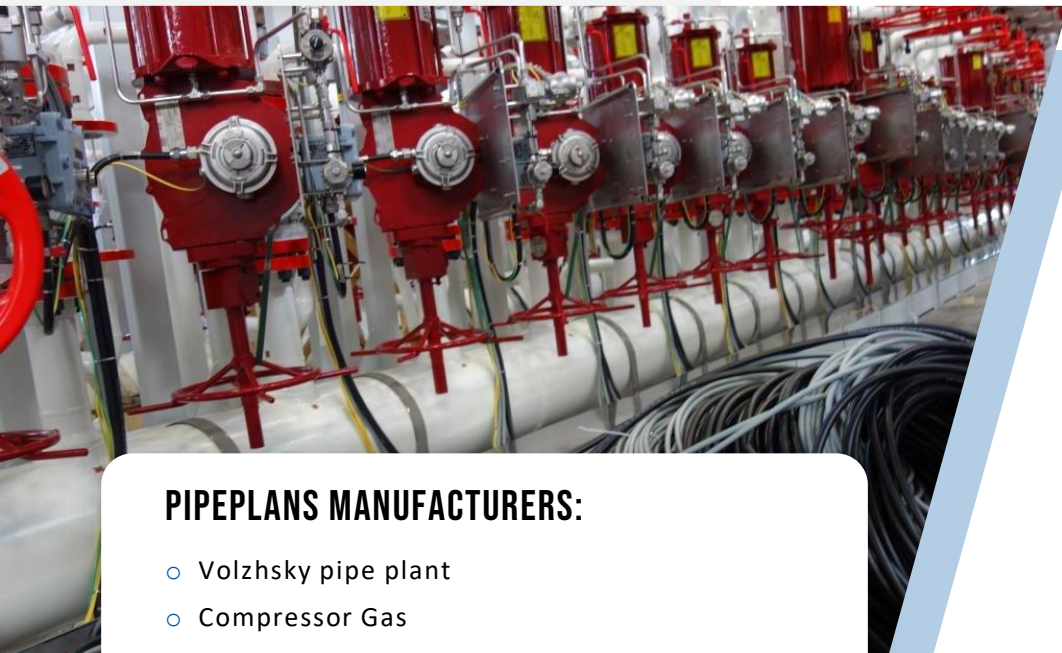


QUALITY CONTROL DURING FABRICATION OF PIPELINE FITTINGS

ARTICLES LIST:

- Bended outlet connections
- Heads
- Pipe adapters
- Adapter rings
- Crossover joints
- Sleeves
- T-connectors

INSPECTION CONTROL OF EACH TYPE OF PRODUCTION IS PERFORMING BASED ON INSPECTION AND TEST PLANS (INSPECTION PLANS) PREVIOUSLY APPROVED WITH MANUFACTURING PLANT



PIPEPLANS MANUFACTURERS:

- Volzhsky pipe plant
- Compressor Gas
- Techengoil
- Kosmos-Neft-Gas
- Armalit
- MorNefteGasStroy
- BT SVAP, etc.



INSPECTION DURING EQUIPMENT MANUFACTURING AT CUSTOMER'S PURCHASED FOR ICE RESISTANT STATIONARY PLATFORM (IRP-R) AND LIVING QUARTER PLATFORM (LQP-R), FIELD NAMED AFTER GRAIFER

LIST OF MANUFACTURING GOODS:

- Pipe goods
- Fitting systems and pipelines
- Manifold blocks
- Throttling and separation units
- Ball valves
- Control valves, safety valves
- Modular boiler plants
- Electric heaters



MANUFACTURING PLANTS:

- Techno Strana
- Arkhangelsk river port
- Truboprovodniye pokrytiya iologii
- Permtranszhelezobeton



INDEPENDENT TECHNICAL SUPERVISION AND QUALITY CONTROL FOR MANUFACTURING OF GABIONS, CONCRETE MATS AND GOODS, INCOMING QUALITY CONTROL OF CONSTRUCTION MATERIALS

SCOPE OF WORK:

- Incoming control of materials, verification of transmitting documentation
- Control of the manufacturing process, measurement of geometric parameters
- Control of the manufacturing process, measurement of geometric parameters
- Marking inspection, preparation for transportation, control of Manufacturer's storage conditions
- Compliance of load out rules in accordance with worked out load out schemes (fastening)

INSPECTIONS AND EXPEDITING

SELECT REFERENCE-LIST ON INSPECTIONS AND EXPEDITING OF SUPPLIERS

SUPPLIER	COUNTRY	PRODUCTION
AMARC SRL	Italy	Electroheaters
SHINSEGAE POWERQUIP INDUSTRIAL	Korea	Hydraulic hammer
ACO MARINE	Czech Republic	Block of the sewage treatment unit
ABB	USA	Level gauges
ORF	U.A.E.	Neoprene coating
BOPP&REUTHER	Germany	Safety valves
SPEC	U.A.E.	Separators
SPARROWS	USA	Pedestal crane
KROHNE ENGINEERING	Russia	Level gauges
RUSEL PROM	Russia	High voltage electric motors
CHEL YABINSK PIPE ROLLING PLANT (CHTPZ)	Russia	Seamless pipes
VOLZSKY PIPE PLANT	Spain	Seamless pipes
ZIO PODOLSK	Russia	Boiler equipment

INSPECTIONS AND EXPEDITING



● PRODUCTION:

- Neoprene coating

● SUPPLIER:

- ORF /U.A.E./

● SCOPE OF WORK:

- Commissioning tests



● PRODUCTION:

- Separators

● SUPPLIER:

- ORF /U.A.E./

● SCOPE OF WORK:

- Inspection during fabrication



● PRODUCTION:

- Pedestal crane

● SUPPLIER:

- ORF /U.A.E./

● SCOPE OF WORK:

- Expediting



● PRODUCTION:

- Safety valves

● SUPPLIER:

- ORF /U.A.E./

● SCOPE OF WORK:

- Commissioning tests

INSPECTIONS AND EXPEDITING



● **PRODUCTION:**

- Electroheaters

● **SUPPLIER:**

- Amarc srl /Italy/

● **SCOPE OF WORK:**

- Commissioning tests



● **PRODUCTION:**

- Block of sewage treatment unit

● **SUPPLIER:**

- ACO Marine /Czech Republic/

● **SCOPE OF WORK:**

- Commissioning tests, final inspection



● **PRODUCTION:**

- Hydraulic hammer

● **SUPPLIER:**

- Shinsegae Powerquip Industrial /Korea/

● **SCOPE OF WORK:**

- Commissioning tests



● **PRODUCTION:**

- Level gauges

● **SUPPLIER:**

- ABB /USA/

● **SCOPE OF WORK:**

- Hydrotests, final inspection

INSPECTIONS AND EXPEDITING



● **PRODUCTION:**

- Rate meters

● **SUPPLIER:**

- Krohne Engineering /Russia/

● **SCOPE OF WORK:**

- Calibration, final inspection



● **PRODUCTION:**

- Gas turbine unit

● **SUPPLIER:**

- Zorya-MashProject /Ukraine/

● **SCOPE OF WORK:**

- Inspection during fabrication



● **PRODUCTION:**

- High voltage electric motors

● **SUPPLIER:**

- RusElProm /Russia/

● **SCOPE OF WORK:**

- Commissioning and type tests, final inspection



● **PRODUCTION:**

- Seamless pipes

● **SUPPLIER:**

- CHTPZ /Russia/

● **SCOPE OF WORK:**

- Final inspection

TECHNICAL AUDITS



PREQUALIFICATION OF SUPPLIERS FOR GAZPROM OJSC IS PERFORMING IN ORDER TO COMPILE A LIST OF POTENTIAL PARTICIPANTS IN PROCUREMENT PROCEDURES OF THE GAZPROM GROUP (FURTHER - LIST)

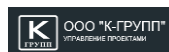
TECHNORESOURCE INTERNATIONAL LLC PROVIDES THE SERVICES IN THE SCOPE OF PREQUALIFICATION FOR GAZPROM OJSC:

- Development of assessment methods and requirements for Prequalification participants
- Expert analysis of participant request documents for accordance to the requirements of prequalification documentation
- Technical audits with TechnoResource International LLC experts visits to the of participants of the prequalification
- Conclusion preparation with results of technical audit with recommendations for the prequalification commission to include/ not include of the participant in the List

IN 2020 MORE THAN 110 REQUESTS WERE ASSESSED BY OUR EXPERTS AND 35 TECHNICAL AUDITS WERE PERFORMED

IN 2021 MORE THAN 250 PARTICIPANT REQUESTS WERE EVALUATED, AND MORE THAN 30 TECHNICAL AUDITS WERE PERFORMED

EXAMPLES OF LARGE COMPANIES, INCLUDED IN THE LIST OF POTENTIAL PROCUREMENT PROCEDURES PARTICIPANTS OF THE GAZPROM GROUP:



Наименование
производство общестроительных и специальных работ по строительству, р первооружению"
о виду деятельности: "Деятельность автомобильного транспорта. Автотр
ельности: "Деятельность по чистке и уборке жилых зданий и нежилых п
ия по виду деятельности: "Землеустройство. Кадастровые и землеустрои
ности: "Техническое обслуживание и ремонт автотранспортных средств
ия по виду деятельности: "Поставка автомобильных деталей, узлов и пр
икация по виду деятельности: "Внешний контроль качества инженерных
ость в сфере телекоммуникаций. Диагностика, техническое обслуживан
лификация по виду деятельности: "Проведение независимой оценки об
дство общестроительных и специальных работ при диагностическом об
дство общестроительных и специальных работ при диагностическом об
льность по техническому контролю, испытаниям и анализу прочая. Стр ическому перевооружению линейных объектов (трубопроводов, автомо др.)"

AS BUILD, AS LAY DOCUMENTATION

EXECUTION AND COMPLETION OF HANDOVER DOCUMENTATION

Service package is performing in strict compliance with the requirements of running standards, norms and specifications, regulations and procedures, approved by Client in a particular project and includes:

- Completion of Permit to work document package on a preparatory stage with continuous updating during construction
- Documental survey of incoming control procedures of used materials with the backup of the covering supporting documentation
- Confirmation of actual amount of executed works on as build documentation forms
- Compilation of electronic document turnover database with loading of scanned as build documentation and saving of sources in electronic formats (upon request by Client)
- Completion of handover documentation after completion of separate stages of construction works to ad acta by Client/Operating company

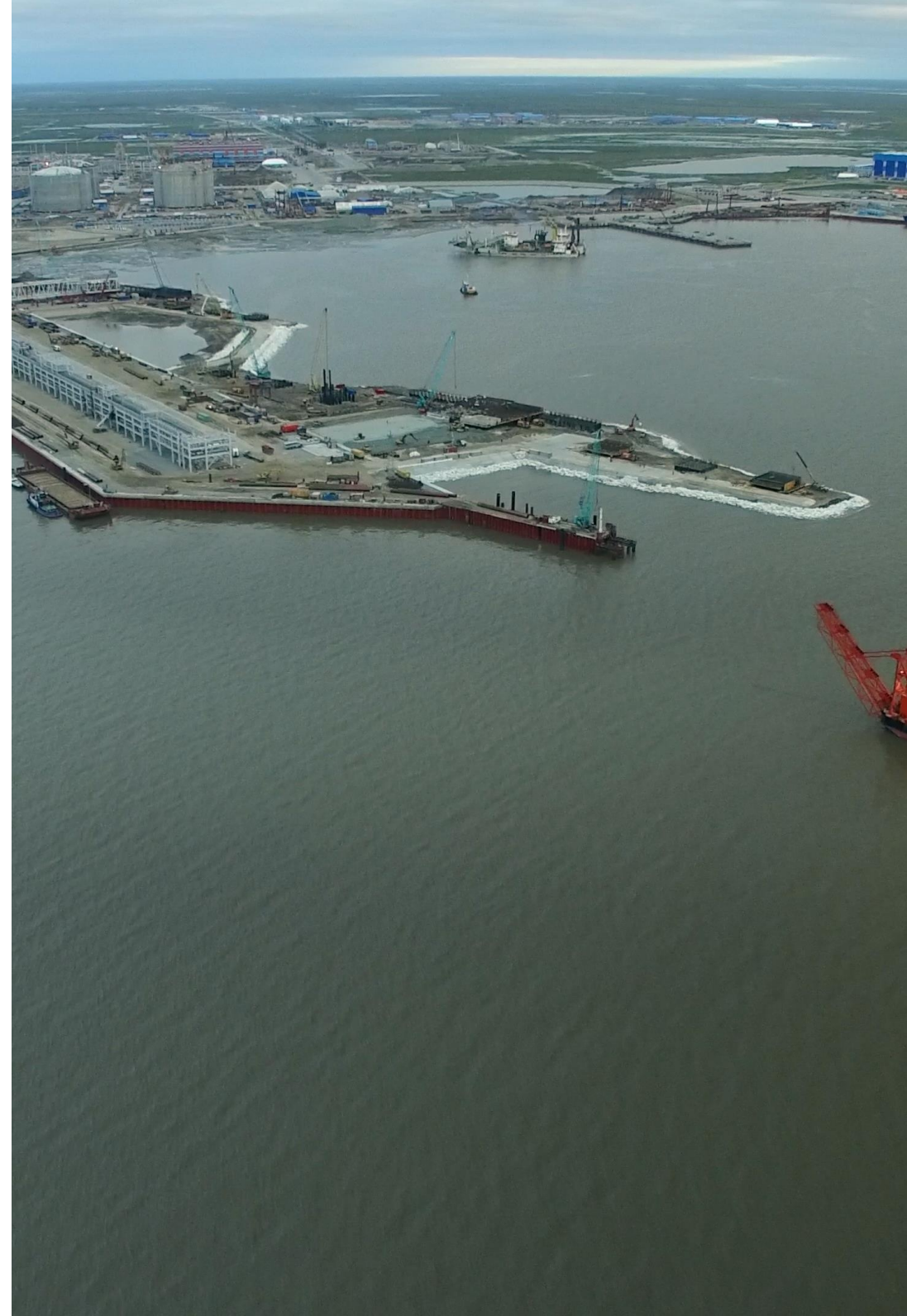


MARINE WARRANTY SURVEY

MARINE WARRANTY SURVEY (MWS)

A range of services for representing of technical interest of the Insurer in relation to offshore operations, sea transportation, installation of offshore structures and equipment. Reviewing and confirming that the relevant standards and criteria are applied to the operations to ensure the safety of its maintaining:

- Review of project documentation
- Surveyor's visits to onshore and offshore sites
- Carrying out Survey inspection and approval of offshore operations at the place of their implementation
- Survey of cargoes, marine operations, vessels



MARINE WARRANTY SURVEY

CUSTOMER	PROJECT	PERIOD
WILLIS/SUPERSTROY XXI	Survey and certification of the main works on loading, transportation and laying of underwater pipeline in the waters of the Okhotsk sea, works on installation of pipe line end terminations (PLET), laying of umbilical cable within the scope of Kirinskoye gas condensate field development project	09.2021 - TILL PRESENT
WILLIS/ MRTS JSC	Vessels survey. Control and survey of operations for the transportation and submerge of piles during the construction of ice protection structures. Terminal of liquefied natural gas and stable gas condensate "Utrenny"	11.2020 - TILL PRESENT
GLOBAL MARITIME	Vessels survey for Nord Stream 2 project suitability	08.2020 - 04.2021
BP EXPLORATION	Vessels survey. Survey of load out and transportation operations of equipment for Platform Shah Deniz Phase 2	04.2020 - 09.2020
ALFASTRAHOVANIYE LUKOIL	Control and survey of vessels, load out and transportation operations of piles and pipes, launching of IRP substructure (3,933 t) onto double-hulled vessel, test pipe lay	04.2020 - 05.2021
MRTS MARINE PROJECTS	Control and survey of pipes load out operations on vessel for transportation to work site, Nord Stream 2 project	06.2019 - 08.2019
SOGAZ	Control and survey of the main work on laying an underwater pipeline in the Baltic Sea, installation of large diameter steel shells (LDS), inserts, backfilling of the internal cavity of the LDS and inserts. Survey of works on placement and fastening of a unique large-sized and heavy-weight cargo (HWC) for further transportation on a barge to work site. Survey for readiness to participate in the project of a pipe-laying vessel, escort tugs and barges used for pipe transportation	11.2016 - 12.2017
PERVAYA KRYMSKAYA STRAHOVAYA KOMPANIYA	Control and survey of the main works on laying the underwater pipeline in the waters of the Kerch Strait. Load out and transportation of pipe products to work site. Survey of readiness to participate in the project of a pipe-laying vessel, escort tugs and barges used for pipe transportation	05.2016 - 09.2016
PERVAYA KRYMSKAYA STRAHOVAYA KOMPANIYA	Control and survey of cable load out and transportation operations. Control of the main works on load out (rewinding) and laying (bottom burrowing) of subsea cable. Survey of the cable-laying vessel, tugs and barges used for the transportation of cable baskets for project readiness	05.2015 - 05.2016

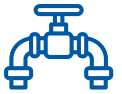


CONSTRUCTION OF THE POWER GRID ENERGY BRIDGE RUSSIAN FEDERATION - CRIMEAN PENINSULA. CABLE CROSS THROUGH THE KERCH STRAIT

SCOPE OF WORK:

- Control and witness of cable loading and transportation operations
- Control of the main works on loading (rewinding) and laying (burying) of the subsea cable.
- Survey of the cable-laying vessel, tugs and barges used for transportation of cable baskets for readiness to participate in the project

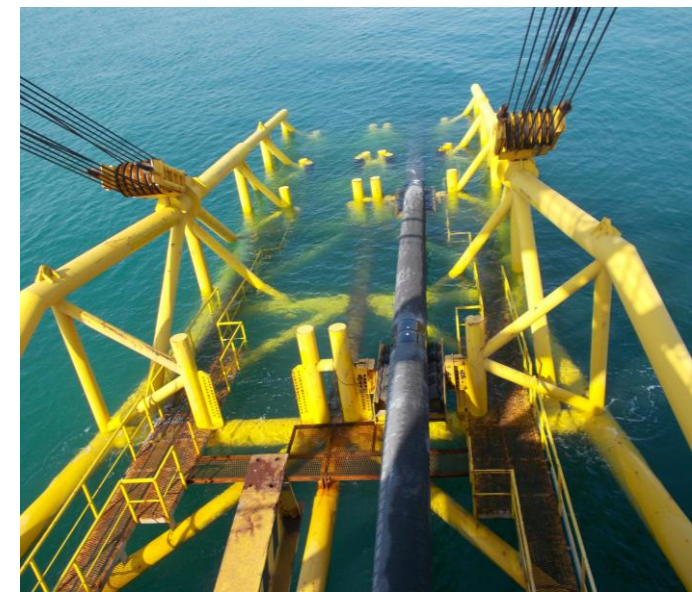
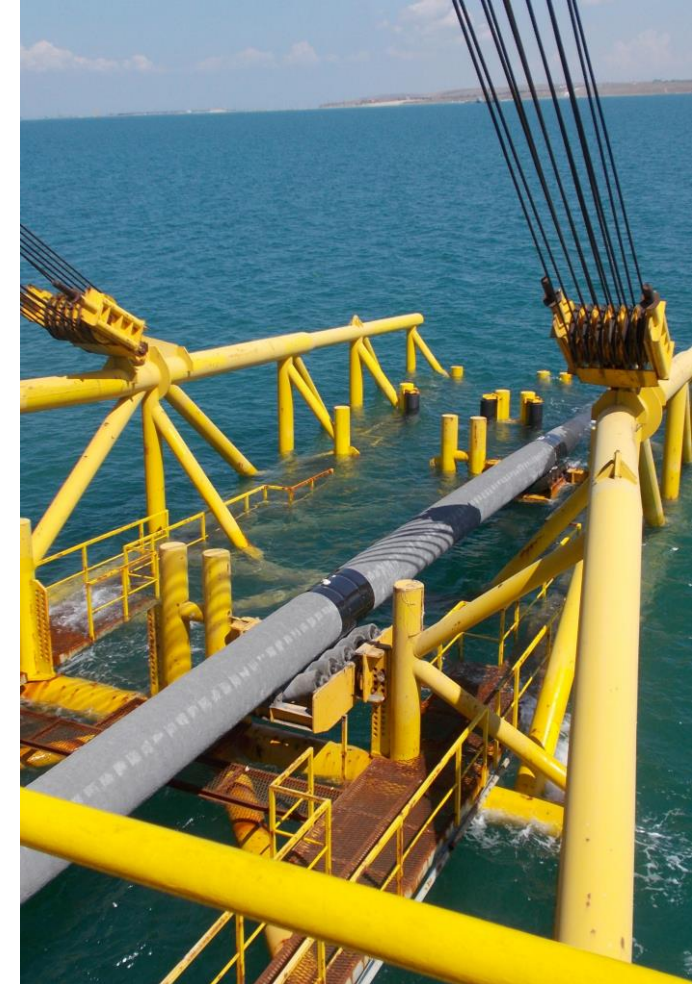
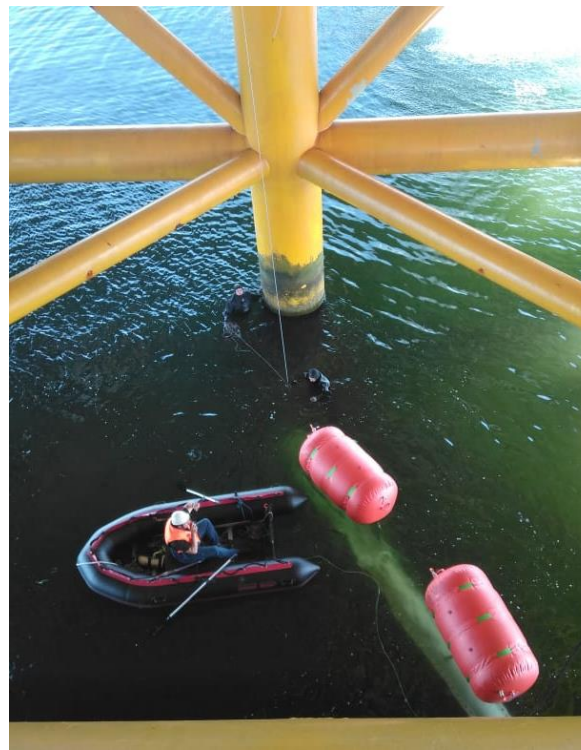


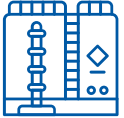


MAIN GAS PIPELINE KRASNODAR REGION-CRIMEA. CROSS THROUGH THE KERCH STRAIT

SCOPE OF WORK:

- Control and witness of the main works on laying the underwater pipeline in the waters of the Kerch Strait
- Control of works on loading and transportation of tubular goods to work place
- Survey of readiness to participate in the project of a pipe-laying vessel, tugs and barges used for pipe transportation





TERMINAL FOR RECEIVING, STORAGE AND REGASIFICATION OF LIQUEFIED NATURAL GAS (LNG) IN THE KALININGRAD REGION. THE BALTIC SEA

SCOPE OF WORK:

- Control and witness of the main work on laying of underwater pipeline in the Baltic Sea, installation of large diameter steel shells (LDS), inserts, backfilling of the internal cavity of the LDS and inserts
- Survey of works on placement and fastening of a unique large-sized and heavy-weight cargo (OHD) for further transportation on barge to work site
- Survey of readiness to participate in the project of a pipe-laying vessel, tugs and barges used for pipe transportation

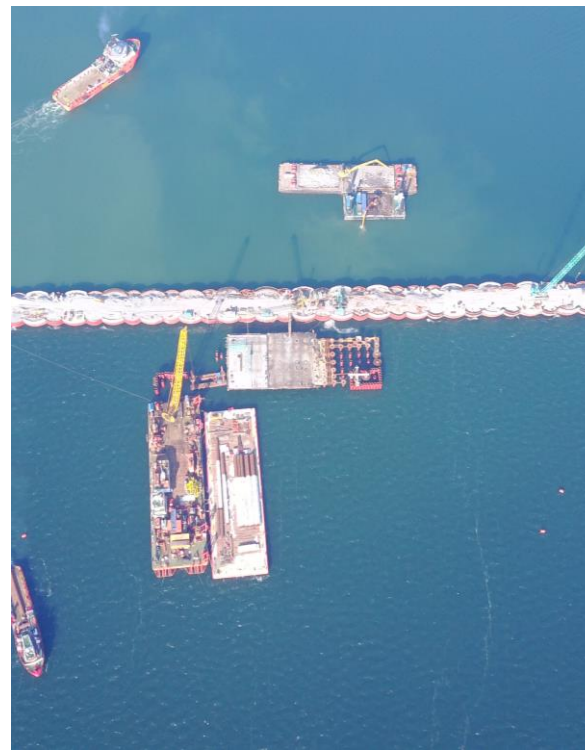


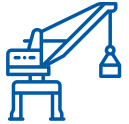


NORD STREAM 2

SCOPE OF WORK:

- Vessel suitability survey for project participation
- Control and survey of work on loading pipes onto ships for transportation to work site

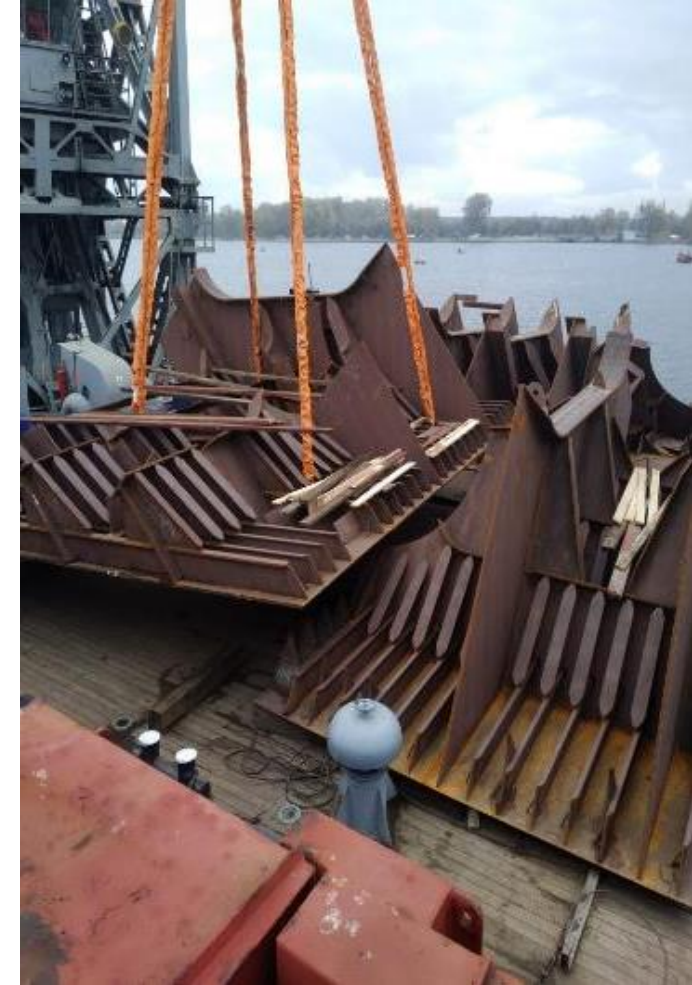




IRP “A” FOR GAS FIELD “KAMENNOMYSKOYE SEA”. KALININGRAD, RUSSIA

SCOPE OF WORK:

- Survey of unloading operations of 192 steel profiles and 1 basement with harbour crane from FAIR WIND vessel

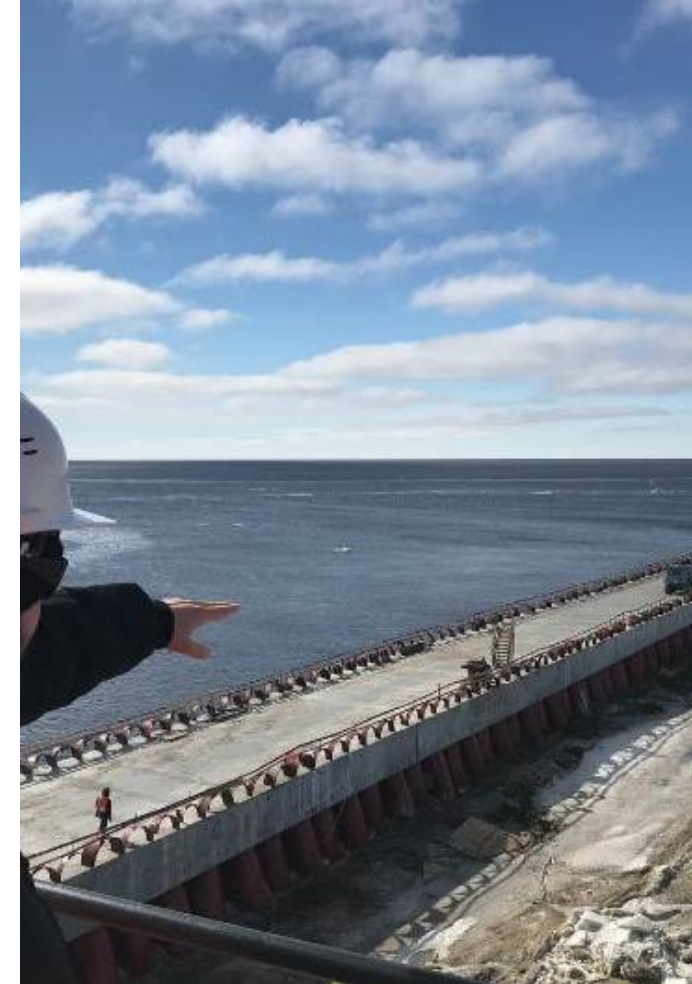




LIQUEFIED NATURAL GAS AND STABLE GAS CONDENSATE TERMINAL UTRENNY. GYDAN PENINSULA/ARKHANGELSK, RUSSIA.

SCOPE OF WORK:

- Vessels survey
- Control and survey of transportation and pile driving's during the construction of ice protection structures

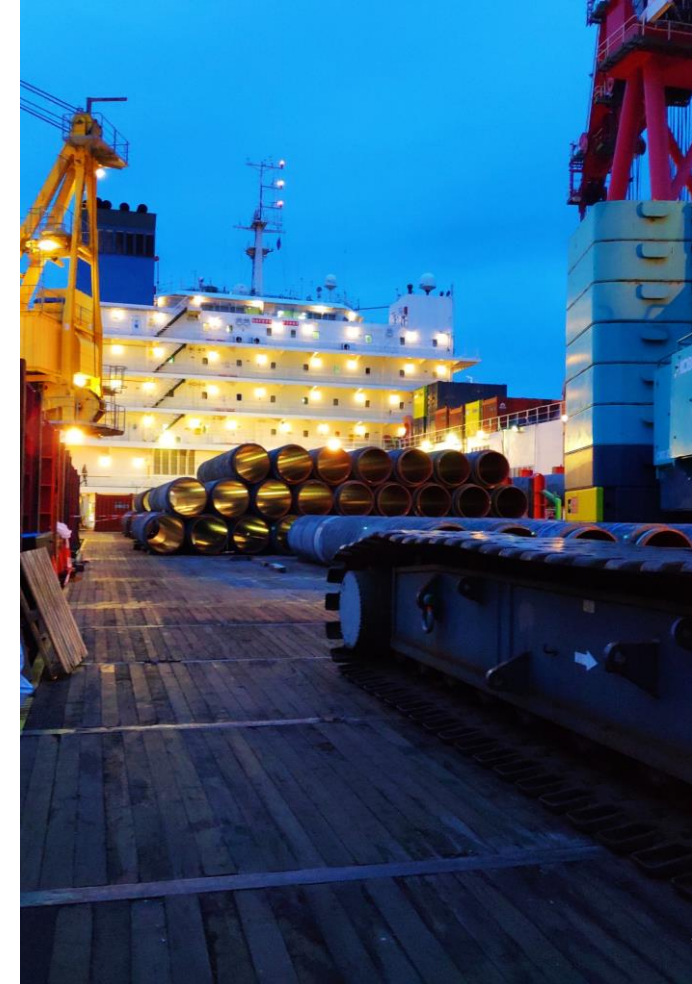




ARRANGEMENT OF KIRINSKOYE GAS CONDENSATE FIELD. SAKHALIN/THE SEA OF OKHOTSK, RUSSIA

SCOPE OF WORK:

- Control and Survey of the main works on loading, transportation and laying of underwater pipeline in the waters of the Sea of Okhotsk
- Control and Survey of the main works on the installation of Pipe End Terminations (PLET), laying of umbilical





INVITING TO COOPERATION!

TECHNORESOURCE INTERNATIONAL LLC



Vavilova str. 69/75, 117335, Moscow,
Russia



+7(499) 375-80-82
+7(495) 902-7725



info@techno-resource.com



techno-resource.com

