guarantee of the modern level to solve complicated scientific and project-technical tasks of complex development of oil fields in different mining-geological conditions. The use of modern equipment together with advanced software makes it possible to perform works at a high level and under tight deadlines. During many years the main tasks of the institute are continuous development, extension of investigations spectrum, development and application of innovative technologies as well as issues related to environment protection.

A new scientific approach to create effective oil-sweeping compositions has been proposed. New industrial technologies to increase formations recovery have been developed. The technologies are applied in real practice of development of fields in Azerbaijan, Kazakhstan, Western Siberia, Russia, Turkmenistan and other countries. Additional several million tons of oil have been produced due to their application.

The unique properties of ultra-dispersed powders of metals and metal-containing materials have been determined. The ways to obtain and manage the properties of highly active adsorbents based on ultra-dispersed powders of aluminum have been developed. New technologies to clean water from oil and oil products based on adsorbents of different types (fibrous and powder) have been developed. The complex of ways to eliminate the results of oil and oil products outflows at their transportation and storage has been developed. The technology to clean waste waters from oil products has been developed.

The reagents developed in the institute laboratories provide removal of asphaltene-resin-paraffin deposits in hard-to-reach and deepwater oil pipelines and wells tubing, are effective at low temperatures, in static and dynamic conditions, have protective properties against hydrosulphuric and bactericidal corrosion.

Of great importance are the processes related with production, gathering and transportation of commercial oil to a consumer, effectiveness and reliability of main pipeline transport operation, the cost of commercial oil and the quality of products obtained from it. At final stages of oil fields development the content of water may reach 90% and more, at the same time the crude delivered to the units of field treatment of oil is characterized not only with the variety of physical-chemical properties but also with the change of its composition with time. Special demulsifiers to break oil emulsions have been developed.

Corrosion control is not only the prolongation of oil-and-gas field equipment service life, reduction of operation costs to repair it, improvement of performance indicators of oil production and field treatment.

foreign companies and organizations that are famous all over the world.
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✓ Inhibitor of Complex Effect «AKKI 2014»
✓ Inhibitor-Bactericide SNGF
✓ Corrosion Inhibitors «Neftqaz–2013»
✓ Corrosion Inhibitors «ZSMM – AZNSETLİ»
✓ Corrosion Inhibitors «KDÇQ – 99»
✓ Corrosion Inhibitors «İKNS – AZNİPINETF»
✓ Coating for Corrosion Protection of Splash Zone
✓ Sealing Compound
✓ Glass-Reinforced Plastic Pipes
✓ Glass-Reinforced Plastic for Submersible Pumps
✓ Oil Well Sucker-Rod Glass – Reinforced Plastic Pumps
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✓ Colored Enamels PS-1184 and PS-1186
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✓ Magnesium Aluminum Binary Anodes – AMBA
✓ Bitumen – Polymer Composition
✓ Plastic Composition
✓ 08GA and 08 XM Grade Welding Materials
✓ Paint Coating «ANTİKOR-20»
Inhibitor-Bactericide «КƏB-2014»

Complex action bactericide, corrosion inhibitor, forms a hydrophobic film on the metal surface, is designed for corrosion protection of conduits of reservoir pressure maintenance system, as well as producing wells, where products contain unstable reservoir water.

Advantages of the developed film-forming bactericide inhibitor "КƏB-2014": due to integrated action protects against general and microbiological corrosion, wherein the protective effect of the overall corrosion rate is 91%, the degree of suppression of corrosive bacteria SRB - 92% at a concentration of 0.5 г/l.

When introducing a new bactericide inhibitor we expect increase the life of underground and surface downhole equipment, thereby increase of turnaround time and, consequently, reduce the number of repairs that will lead to savings of pipes, sucker rods and other downhole equipment.

Technical characteristics:

- Color – from dark-brown to black
- Density at 20 °C, kg/m³ – 902
- Congelation temperature, °C – -25
- Kinematic viscosity at 20 °C, sSт – 21
- pH (in 1% aqueous solution at 20 °C) – 7
Inhibitor of Complex Effect «AKKI 2014»

Designed for corrosion and scaling control of oil field water-oil emulsion handling systems, as well as reservoir pressure maintenance system, in corrosive oilfield environments containing hydrogen sulfide, carbon dioxide and sulfate-reducing bacteria (SRB).
Possessing complex effect, it protects against general corrosion and microbiological corrosion, wherein the protective effect of the total corrosion makes 91% at a concentration of 0.5 g / cum.

Technical characteristics:
- Aggregative state: liquid
- Density at 20 °C, kg/m³: 892
- Kinematic viscosity at 20 °C, cSt: 29
- Freezing temperature, °C: -14
- pH (в 1% растворе при 20 °C): 7 ÷ 8
Inhibitor-bactericide SNGF

Inhibitor-bactericide SNGF is intended for protection of oil-field equipment from microbiological and electrochemical corrosion. Prevents the generation of sulfate-reducing bacteria in formation pressure maintenance system and reduces the rate of electrochemical corrosion of oil-field equipment.

Technical characteristics:

- Color - dark-brown
- The part of basic material mass by calculations of solid residue, % - 35 ÷ 40
- Density at 20 °C, kg/m³ - 1120 ÷ 1140
- pH - 7.0 ÷ 9.0
- Surface tension, mN/m - 36.1 ÷ 38.3
- Solubility - soluble in sea and formation water

Note

The results of the experiments showed that during injecting a reagent into a formation at the density of 200 mg/l, the rate of corrosion reduces by 80 ÷ 85%, the reduction of SRB life activity is 85 ÷ 90%.
Corrosion Inhibitors «Neftqaz–2013»

Corrosion-inhibitor "Neftegas 2013" is designed for corrosion control of gas lines, oil field water-oil emulsion handling systems in aggressive environments containing hydrogen sulfide, carbon dioxide and sulfate-reducing bacteria (SRB). Protective effect of the overall corrosion is 95-98% at a concentration of 0.5 g / cum.

Technical characteristics:

- Aggregative state: liquid
- Color: light-brown
- Density at 20 °C, kg/m³: 0.9514
- Kinematic viscosity at 20 °C, cSt: 20.81
- Freezing temperature, °C: -46
- pH: 9-10
- Температура воспламенения, °C: 38

The inhibitors are intended for anticorrosive protection of oil-and-gas equipment in particular tubing, casing columns, infield pipeline from corrosion and microbiological attack. Prevents the generation of sulfate-reducing bacteria.

Technical characteristics:

- **Color**: dark-brown
- **Density, kg/m³**: 9.8 ± 1.00
- **Freezing temperature, °C**: 15
- **Kinematic viscosity, cSt**: 32 - 35
- **Solubility**:
  - in oil: good
  - in water: weak
- **Shocking dose, g/l**: 1.0
- **Flow rate, g/l**: 0.5

Note

Inhibitors "NEFTQAZ-2008" and "NEFTQAZ-2010" differ in composition.
Corrosion Inhibitors «ZSMM – AZNSETLİ»

Intended for corrosion protection of underground oil-field facilities, equipment, including tubing, pump rods, flow lines, manifold pipes.

Technical characteristics:
- Aggregative state: liquid
- Color: dark-brown-black
- Smell: specifically slight
- Density, kg/m³: 940 ÷ 960
- Kinematic viscosity (at 100 °C), cSt: 9
- Ignition temperature, °C: 162
- Freezing temperature, °K: 26
- Solubility:
  - in oil: soluble
  - in water: insoluble
Corrosion Inhibitors «KDÇQ – 99»

It is meant for prevention of salt depositions and anticorrosive protection of metal facilities, equipment, underground and surface pipes that contact with aggressive oil products in oil-and-gas fields.

Technical characteristics:

- **Color**: dark-brown-black
- **Smell**: slight
- **Molecular weight**: over 300
- **Refraction unit**: 1.4100
- **Oxidation unit (KOH), mg**: 50
- **Specific weight**: 0.9599
- **Kinematic viscosity, at 100 °C, cSt**: 9
- **Ignition temperature, °C**: 162
- **Solubility: in oil**: well soluble
  - **in water**: slightly soluble
- **Anticorrosive protection, 200 mg/l**: 98%
- **Salt depositions reduction, 200 mg/l**: 85%
Corrosion Inhibitors
«İKNS – AZNİPİNEFT»

It is meant for anticorrosive protection of downhole equipment. Consisting of aggressive gases including carbon, oxygen and 200 mg/l of hydrosulfites, the inhibitor acts stably against an aggressive action of formation waters. On the surface of downhole equipment forms a “protective” film.

Technical characteristics:

- Aggregative state: liquid
- Color: dark-brown
- The quantity of active components, %: 75
- Density at 20 °C, kg/m³: 940 ÷ 970
- Viscosity at 20 °C, m²/ cSt: 0.25 ÷ 0.27
- Freezing temperature, °C: -10
- Solubility:
  - in oil: well soluble
  - in water: insoluble
It is designed for corrosion protection offshore hydro technical facilities splash zone. External coating is double-layered and the first layer of which is bituminous-polymer composition applied on fiber glass, and the second one polymer based sticky composition making the first layer mechanically stable. Glass fiber is used as reinforcement material. It quickly hardens under water and forms a protective coating. After drying it is highly strength and is tamperproof.

Two-component adhesive polymer compound consists of varnish and fixing agent.

Texniki göstəriciləri:

- Appearance - transparent indiscrete mass
- Density at 20 °C, g/cm³ - 1.0134
- Funnel viscosity, cen - 91.0
- Amount of solid residual, % - 51.99
- Adhesion for metal surface, ball - 3.0
It is intended for tubing threaded connections and couplings anticorrosive protection in oil and gas wells.

Technical characteristics:

- Aggregate state: amorphous
- Colour: uniformly back
- Drop point, °C: 87 \(\div\) 95
- Sliding temperature, °C: 94 \(\div\) 104
- Penetration at 25 °C, mm: 230 \(\div\) 260
Corrosion resistant glass-reinforced pipes on epoxy base are developed for operation in sea water and in oil field. Glass-reinforced plastic pipes are lighter than steel ones 3-3.5-fold, do not expose to corrosion, have larger mechanical strength than other polymer materials, are resistant to chemical action, saline and paraffin deposits on their surface are insignificant, they are resistant to dynamic stress, impact and hydraulic resistance.

**Technical characteristics:**

- **Density, kg/m³** - 1800 ÷ 2000
- **Coefficient of linear expansion x 10^6, 1°C** - 16÷22
- **Tensile strength, kg/cm²** - 7009
- **Vector modulus of elasticity, MPa** - 15000
- **Thermal conductivity Kkal (ms°C)** - 0.3÷0.4
- **Specific strength, kH** - 39
- **Khazen and William’s ratio** - 150
- **Poisson’s ratio** - 0.3
Glass-Reinforced Plastic for Submersible Pumps

They are designed for anticorrosive protection of submersible pumps metal barrel. According to technology corrosion products are removed mechanically and by means of solvent from metal surface and then it is lined by 2-2.5 m thickness glass-reinforced plastic. Anticorrosive lining can be applied in stationary and in field conditions.

<table>
<thead>
<tr>
<th>Steel pipes outside diameter</th>
<th>Parameters of glass-reinforced plastic lining</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Outside diameter, mm</td>
</tr>
<tr>
<td>168.3</td>
<td>151.7</td>
</tr>
<tr>
<td>152</td>
<td>139</td>
</tr>
<tr>
<td>146</td>
<td>133</td>
</tr>
<tr>
<td>114</td>
<td>98</td>
</tr>
<tr>
<td>73</td>
<td>60</td>
</tr>
</tbody>
</table>

Technical characteristics:

- **Density, kg/m³**: 1800 ÷ 2000
- **Specific strength, kH**: 39 - 40
- **Thermal conductivity Kkal (ms °C)**: 0.3 ÷ 0.4
- **Mechanical strength, MPa**: 200
- **Electrical resistance, Om · m**: 5 · 1011
- **Friction coefficient (t = 10 °C)**: 0.05
Oil well sucker–rod glass–reinforced plastic pumps are developed instead of steel ones for operation in aggressive oil field condition.

It is known that at oil wells operation sucker rod string which is the main component of deep well sucker–rod pump experienced constant mechanical influence that causes metal fatigue. This phenomenon is especially characteristic of oil producing wells with corrosion–aggressive output. Sucker–rods bodies are manufactured from glass–reinforced plastic and thread part–from metal.

Oil well sucker–rod glass–reinforced plastic pumps in comparison with metal ones have the following advantages:
- 3.5–fold lighter
- corrosion–proof.

Energy consumption, transportation and unit assembling costs are decreased because of light construction.
Service life is increased because of corrosion–proof.

Technical characteristics:

- Density, kg/m³ – 1800 ÷ 2000
- Rupture stress at tension, MPa – 800
- Bending module at tension – 0.3·105
- Sharp impact strength kgs/m² – 250
- Water saturation, % – 0.05
- Tensile strength, MPa – 230
Glass-Reinforced Plastic Jackets for Steel Pipes

2-3 mm thickness glass-reinforced plastic jackets are designed for lining of inner and outer surface of pipes.

Glass-reinforced protective lining is not subjected to corrosion, resistant to aggressive attack of formation waters, has mechanical strength:
\[
\sigma_{\text{compr.}} = 200 \text{ MPa} \\
\sigma_{\text{stress}} = 66 \div 85 \text{ MPa}
\]

It provides anticorrosive protection of oil field equipment, namely collectors, flow lines, casing (strings).

Service life is 20 ÷ 25 years.

<table>
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<td>114</td>
<td>98</td>
</tr>
<tr>
<td>73</td>
<td>60</td>
</tr>
</tbody>
</table>

Technical characteristics:

- Density, kg/m³ - 1800 ÷ 2000
- Coefficient of linear expansion x 10⁶, 1 °C - 16 ÷ 2 2
- Tensile strength, kgf/cm² - 7009
- Thermal conductivity, Kkal (ms °C) - 0.3 ÷ 0.4
- Specific strength, kH - 39
Colored Enamels PS-1184 and PS-1186

Enamels PS-1184 and PS-1186 are intended for anticorrosive protection of oil field equipment, pipelines and hydraulic structures. Life time of enamels PS-1184 and PS-1186, applied in 3 layers, is 8 years.

Technical characteristics:

- Color: depending on pigments - red, orangered, yellow, green, dark-green, blue, silvery-grey
- Luster, %: 50
- Viscosity, (20±0.5 °C), sec: 35 to 90
- Drying time (20±2) °C, min.: up to I degree - 40, up to III degree - 120
- Elastic bending, mm: 1
- Shockproof, cm: 5
- Adhesion, amount: 1
- Strength: 0.3
- Density, g/cm³: 1.2 ± 0.1
Lacquer – Kors is utilized as protective coating and, as well, as component of coloured enamels PS-1184 and PS-1186. It is made according to technological regulations. Life time is 5-7 years.

Technical characteristics:

- Colour – from dark yellow up to light brown
- Viscosity, s – 70 ÷ 110
- Time of drying, min
  - up to I level – 40
  - up to III level – 120
- Shockproof, N · sm (kgs · sm) – 5 (50)
- Strength – 0.40
- Adhesion, amount – 1
Epoxy Polystyrene Enamel EP - 7105


Technical characteristics:

- Color: black, blue
- Luster, %: 50 ÷ 55
- Quantity of volatile compounds, %: 10
- Milling, mkm: 70
- Drying up to III degree, hour: 8
- Adhesion, amount: 1
- Elastic bending, mm: 1
- Shockproof, kgc · cm: 50
Thixotropic Enamels
AP -1, AP -2, AB -2

Technical characteristics:
- Colour
  - brown, yellow, white
- Time of drying, min
  - 40
- Lustre, %
  - 50 ÷ 55
- Milling, mkm
  - 53 ÷ 73
- Degree of fluidity by vertical line, mm
  - 1.5 ÷ 6.0
- Mass fraction of dry substance, %
  - 70 ÷ 85
- Adhesion, amount
  - 1 ÷ 2
- Elastic bending, mm
  - 1
- Shockproof, N·sm (kgs·sm)
  - 5 (50)

Protection:
1. Old protective coating surface cleaning.
2. Abrasive cleaning.
3. Application of one layer of AB - 1
4. Application of one layer of lubricating oil PVK.

Consumption of enamel upon 1 m² surface at mechanical application is 650 g/m² and by means of brush -600 g/m²
Aluminum Short Circuit Galvanic Anodes – AQQA

Field of application (Purpose):

They are intended for electrical and chemical anticorrosive and microbiological failure of offshore hydraulic structures jackets underwater parts protection. Anodes are installed during new constructions mounting and are manufactured from aluminum alloy.

Manufacturer: OAO Ganja plant on non-ferrous metals treatment. Currently they are widely used in industry.

Main components: aluminum alloy, alloyed Zn and Sr.

<table>
<thead>
<tr>
<th>Anode</th>
<th>a</th>
<th>b</th>
<th>C</th>
<th>D</th>
<th>d</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQQA</td>
<td>1700 ± 10</td>
<td>250</td>
<td>1900</td>
<td>170 ± 10</td>
<td>57 ± 3</td>
<td>73</td>
</tr>
</tbody>
</table>
Aluminum Bracelet
Galvanic Anodes – BQA

They are designed for offshore underwater pipelines electrical and chemical anticorrosive and microbiological failure protection.

Manufactured from aluminum alloys.

**Manufacturer:** OAO Ganja plant on non-ferrous metals treatment.

Currently are widely used in industry.

**Technical characteristics:**
- Main components: aluminum alloy, alloyed Zn, Sr and In.
- Dimensions and mass: anode dimensions and mass is calculated according to pipeline diameter and thickness of weighting concrete jacket.
Fire-Resisting Composition

Is intended for technological equipment inflammation prevention on fixed platforms and fire-hazardous productions. Fire-resisting composition is manufactured in the form of suspension from modified filling agents and fire-retardant. Fire-resisting composition is two-packaged consisting of base and component displacing water.

Fire-resisting composition is applied upon protected surface in 3 layers.

Technical characteristics:

- Color - silvery-white
- Density at 20°C, kg/m³ - 1.3-1.4
- Quantity of unvolatile compounds, % - 60
- Resistance to compression, kgc/cm² - 100
- Adhesion to steel, kgc/cm² - 25.0
- Mass loss, % - 18-19
- Drying out time up to 3 degree, hour - 3-4
- Fire resistance, degree - 3
- Protective fire efficiency, minute - 60.5
- Thermal conductivity factor, Vt/smk - 0.445
Magnesium Aluminum Binary Anodes – AMBA

Field of application:

They are applied for electrical and chemical anticorrosive and microbiological failure protection of operated offshore hydraulic structures jackets underwater parts, piers, near-pier platforms, shallow water offshore platforms. Anodes are mounted during major (capital) repairs.

Manufactured from alloys of aluminum and magnesium.

Manufacturer: OAO Ganja plant on non-ferrous metals treatment. Currently are widely used in industry.

Main components: aluminum alloy, alloyed Zn, Sr and In.

<table>
<thead>
<tr>
<th>Dimensions, mm</th>
<th>Mass of alloy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium layer</td>
<td>Aluminum layer</td>
</tr>
<tr>
<td>L₁</td>
<td>d₁</td>
</tr>
<tr>
<td>1900 ± 10</td>
<td>155 ± 5</td>
</tr>
</tbody>
</table>
It is insulating material against corrosive attack and cracking of steel constructions and for underwater pipelines protection.

Composition has stable shockproof and thermal insulation properties and, as well, has high electrical resistance.

**Technical characteristics:**

- Temperature of softening, °C – 150
- Density, g /sm³ – 1.2
- Penetration, 25°C, 10⁻¹ mm – 16.5
- Ignition temperature, °C – 320
- Shock stability, Kg f ·sm – 50
- 6 mm coating resistance conductance, Om · m² – 6.6 · 10¹¹
- Coating resistance conductance in sea water after 90 days, Om · m² – 8.0 · 10⁹
- Coating breaking off during cathode polarization during 30 days – is not observed
Composition is intended for corrosive protection of fixed platforms, piers and other hydraulic structures being in the zone of periodical wetting. It is sea water aggressive attack stable. Plastic composition is mainly manufactured from local raw material.

Technical characteristics:

- Color - black or dark-brown
- Freezing point, °C - -10
- Softening temperature, °C - +70
- Drop temperature, °C - +100
- Spreading temperature, °C - +120
- Adhesion
- Solubility - in kerosene
Intended for 09G2S and 09G2SSh grade steels welding. Their use during welding significantly decreases service life of metal structures subjected to corrosion and high fatigue stress.

Data about physical and mechanical properties and chemical composition of welding materials and steels are shown in Tables.

### Grade of steel

<table>
<thead>
<tr>
<th>Thickness of rolled metal, mm</th>
<th>Mechanical properties</th>
<th>Impact strength</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Resistance, N/mm²</td>
<td>Yield point, N/mm²</td>
</tr>
<tr>
<td>09G2S</td>
<td>10+20</td>
<td>480</td>
</tr>
<tr>
<td></td>
<td>21+32</td>
<td>470</td>
</tr>
<tr>
<td></td>
<td>33+60</td>
<td>460</td>
</tr>
<tr>
<td></td>
<td>61+80</td>
<td>450</td>
</tr>
<tr>
<td></td>
<td>81+160</td>
<td>440</td>
</tr>
<tr>
<td>09G2SSh</td>
<td>10+20</td>
<td>470</td>
</tr>
<tr>
<td></td>
<td>21+32</td>
<td>460</td>
</tr>
<tr>
<td></td>
<td>33+60</td>
<td>450</td>
</tr>
<tr>
<td></td>
<td>61+80</td>
<td>440</td>
</tr>
<tr>
<td></td>
<td>81+100</td>
<td>430</td>
</tr>
</tbody>
</table>

### Chemical composition of steels, %

<table>
<thead>
<tr>
<th>Grade of steel</th>
<th>C</th>
<th>Si</th>
<th>Mg</th>
<th>Cr</th>
<th>Ni</th>
<th>Cu</th>
<th>P</th>
<th>Al</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>09G2S</td>
<td>0.12</td>
<td>0.5–0.8</td>
<td>1.3–1.7</td>
<td>0.30</td>
<td>0.30</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>09G2SSh</td>
<td>0.12</td>
<td>0.5–0.6</td>
<td>1.3–1.7</td>
<td>0.30</td>
<td>0.30</td>
<td>0.30</td>
<td>0.01–0.05</td>
<td>0.008</td>
<td></td>
</tr>
</tbody>
</table>

### Chemical composition of welding materials, %

<table>
<thead>
<tr>
<th>Welding materials</th>
<th>C</th>
<th>Si</th>
<th>Mg</th>
<th>Cr</th>
<th>Ni</th>
<th>Mo</th>
<th>S</th>
<th>P</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>08GA</td>
<td>0.10</td>
<td>0.03</td>
<td>0.8–1.1</td>
<td>0.10</td>
<td>0.25</td>
<td>-</td>
<td>0.025</td>
<td>0.03</td>
<td>0.010</td>
</tr>
<tr>
<td>08 KhM</td>
<td>0.06–0.1</td>
<td>0.12–0.3</td>
<td>0.35–0.6</td>
<td>0.9–1.2</td>
<td>0.30</td>
<td>0.5–0.7</td>
<td>0.025</td>
<td>0.03</td>
<td>0.012</td>
</tr>
</tbody>
</table>
Paint Coating "Antikor-20"

Paint coating on epoxy base is intended for anticorrosive protection of inside and outside surface of tubing and pipelines. Paint coating is resistant to aggressive attack of medium in oil field conditions.

Technical characteristics:

- Color - depending on pigment - dark-brown or green
  - 60 ÷ 70
- Thickness, mkm - 60 ÷ 70
  - 60 ÷ 70
- Strength (20 °C) 293 °K - 0.78
  - 0.78
- Shockproof, H · cm (kg·cm) - 5(50)
  - 5(50)
- Elastic bending, mm - 1
  - 1
- Adhesion, amount - 1
  - 1
- Life time, year - 7 - 10
  - 7 - 10
Tel.: (+994 12) 521 15 32
Fax:  (+994 12) 431 87 08

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