

ABOUT THE COMPANY

Mosmetrostroy, a Joint Stock Company, hereinafter referred to as Mosmetrostroy, is a multi-profile construction and engineering company. The company constructs metro stations, tunnels, transport junctions and highways, as well as civil and industrial projects.

Mosmetrostroy was established in 1931. The first line of the Moscow Metro was built by the company specialists in the unprecedented time and was put into operation on May 15th in 1935. Mosmetrostroy has built 193 of 250 operating stations of Moscow metro. The company was awarded with four orders for outstanding service to the Fatherland. They are the following: order of Lenin, order of October Revolution, Order of the Red Banner of Labour and order of People's Friendship.

The main advantage of Mosmetrostroy is its complex approach to execution of the tasks. The company has the qualified staff, wide range of manufacturing capacity, which includes the segment plant for production of the tunnel lining and its own design institution. Owing to all these features the company is capable to put the projects into service with a turnkey. Starting from design, construction and architectural finishing to assembly of the engineering.

systems, commissioning and putting into operation. The structure of the company is comprised of 20 main specialized divisions.

Mosmetrostroy is one of a few internationally recognized construction companies in Russia. The specialists of the company successfully built projects in Israel, Turkey and Serbia. At present Mosmetrostroy is taking part in construction of the transport facilities in Montenegro and India.

As of the beginning of 2021 the total cost of the portfolio with the long term orders is 75 billion rubles.



Mosmetrostroy has been building and reconstructing the metro tunnels, railway tunnels, traffic and civil projects. <image>



250 operating stations of Moscow metro

193 were built by Mosmetrostroy



600 km



b 400 thous. m² of the residential property and industrial facilities.



of the road junctions and arterial roads



AWARDS AND ACHIEVEMENTS



MOSMETROSTROY WAS AWARDED WITH:

1939

Order of Lenin For successful construction of the 2nd stage of Moscow metro





1944

of the Red Banner of Labour For construction of the 3rd stage of Moscow metro during the WWII

1975 Order of October Revolution For putting into operation of the Zhdanovsk-

Grand Prix

INTERNATIONAL AWARDS



1937 Paris Sokolniki station Sokolnicheskaya line



1937 Paris

1958

Brussels Kropotkinskaya station Sokolnicheskaya line



1938 New York Mayakovskaya station Zamoskvoretskaya line



1938 Paris Krasnye vorota station Sokolnicheskaya line





Krasnopresnensk circle

1981

Order of People's Friendship For success in construction of Moscow metro



1958 Komsomolskaya station Koltsevaya line





1937 Krasnye vorota station Sokolnicheskaya line



1941 Kievskaya station Filyovskaya line



1946 Avtozavodskaya station Zamoskvoretskaya line



1950 Kurskaya station Koltsevaya line



1950 Oktyabrskaya station Koltsevaya line



1952 Belorusskaya station Koltsevaya line



1952 Komsomolskaya station Koltsevaya line



1952 Elektrozavodskaya station Arbatsk-Pokrovskaya line



NATIONAL STALIN'S AWARD OF THE 1ST GRADE

AWARD OF THE 2ND GRADE



1941 Kropotkinskaya station Sokolnicheskaya line





1941 Komsomolskaya station Sokolnicheskaya line



Novokuznetskaya station Zamoskvoretskaya line



AWARD

OF THE COUNCIL **OF MINISTERS**



1977 Kuznetskiy most station Tagansk-Krasnopresnensk line



1983 Chertanovskaya station Serpukhovsk-Timiryazevskaya line







1977 Pushkinskaya station Tagansk-Krasnopresnensk line

LICENSES, CERTIFICATES **AND DIPLOMAS**

Mosmetrostroy has the following priority activities: Create safe working conditions, save lives and health of the employees, ensure reliable functioning of the projects.



From the International

network IQNET under the license agreement with Quality Austria for compliance with the standard ISO 9001-2015

From the body for certification of the management systems «Rostec» for compliance with GOST R ISO 9001-2015 (ISO 9001:2015)

C3M.03896

From the body for certification of the management systems «Ecocertification» for compliance with GOST R ISO 14001-2016 (ISO 14001:2015)

Certificate # POCC 01.0C.CMOT. 03160-20

From the body for certification of the management systems «Evro-Registr» For compliance with GOST 12.0.230-2007 (OHSAS 18001)



Mosmetrostroy is a member of the self-regulatory organizations:

- "Union of the general contractors in construction" association:
- "Union of the city design and planning" association;
- "GeoIndustry, union of the surveyors" association.



5. Certificate of Attestation by the central construction laboratory # 05A010149

From the independent body for attestation of the non-destructive testing laboratories "Lider NK" Ltd., For compliance with NDT system

RU.ИСС.АЛ.068

"Register StroyStandart" for compliance with the proficiency requirements of GOST ISO/MAK 17025-2009



The Mining Industrial, Sanitary and Central Construction Laboratory of Mosmetrostroy monitors the labour conditions, estimates impact of the running projects on environment and controls quality of structures, products, materials and soils.

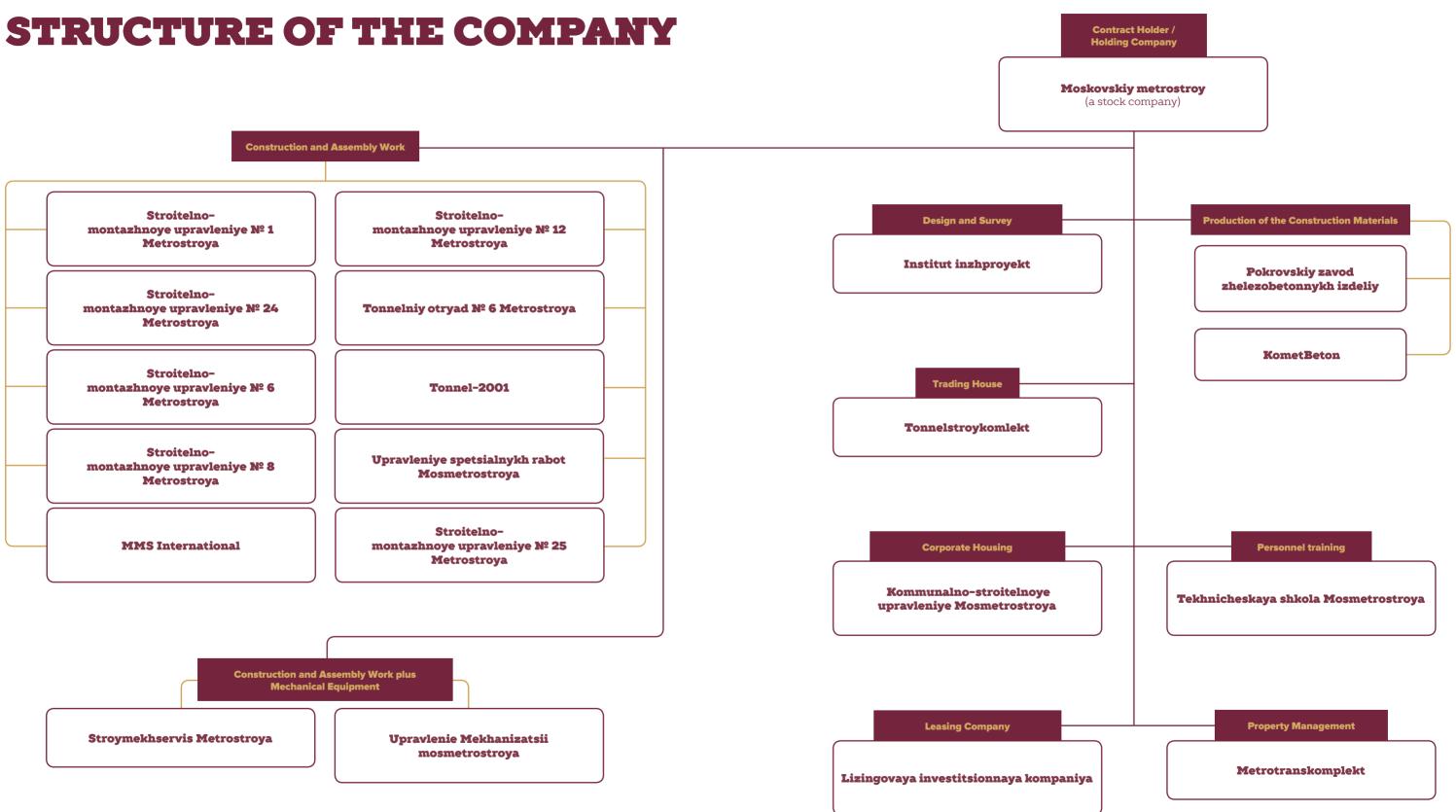


The company follows and is improving the Quality Management System, certified in the international IQNET network under the license agreement with Quality Austria, as well as GOST R certification system for compliance with the requirements of GOST R ISO 9001-2015 (ISO 9001: 2015), 14001-2016 (ISO 14001: 2015) and OHSAS 18001.



7. Accreditation Certificate # RA.RU.21ΑΓ44

From the Federal Service of accreditation for compliance with GOST ISO/MAK 17025-2009



AREA OF ACTIVITY





Function as a General Designer

General Plan (land plot layout diagram)

Special Divisions of the Project

Technological Design

Architectural Design

Design Solution

Internal and External Utility Networks

Organization of Construction

Engineering Research in Construction



INTERGRATED DESIGN

Institut Inzhproyekt is a part of Mosmetrostroy and its function is to carry out the complete range of design work for metro facilities, transport infrastructure and the civil projects. 11 NO T L.



At present Inzhproyekt is carrying out the project design work for reconstruction of the stations in Kakhovskaya line, Kakhovskaya and Varshavskaya stations. The company portfolio with the completed orders contains the projects for overhaul of seven surface stations in Filyovskaya line, Studencheskaya, Koutouzovskaya, Fili, Bagrationovskaya, Filyovskiy Park, Pionerskaya and Kuntsevskaya, plus reconstruction of a ski jump in Vorob'jovi Gori and the cable way from the viewing point to Louzhniki stadium. The modern requirements towards the metro and other infrastructure were taken into account in all projects.



AL.

Inzhproyekt completed the all-inclusive design including development of the stages «Project» and «Engineering Documentation» for Troparyovo-Salar'yevo section of Sokolnicheskaya line. While working on the design of the stations the engineers used the modern technical and design solutions.



CONSTRUCTION **OF METRO**

Since 1931 and as of today the main Warsaw, Budapest and Calkutta. activity of the company is construction of Moscow metro.

revan, Alma-Aty. The Moscow en- zovo and Fiztekh stations.

Mosmetrostroy is the pioneer in gineers also contributed to conconstruction of metro in Russia. struction of metro in Prague, Sofia,

At present Mosmetrostroy specialists are busy with construc-The engineers of Mosmetrostroy tion of three new stations in the contributed to construction and fu- north-eastern part of Bolshaya Koltture development of metro in St. sevaya line, Sokolniki, Rizhskaya Petersburg, Nizhniy Novgorod, Ka- and Mar'ina Roshcha stations, plus zan, Novosibirsk, Yekaterinburg, three stations in Lyublinsko-Dmitro-Kyev, Tbilisi, Baku, Tashkent, Ye-vskaya line, Yakhromskaya, Liano-

MAIN TYPES OF WORK IN METRO CONSTRUCTION

Construct the tunnels and the stations with open cut and trenchless method, including the tunnel boring machines

Construct the station halls and the pedestrian subway

Construct the escalator tunnels

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Drill piles and ground work

Lay and re-arrange the engineering networks

Construct using the special methods: Ground freezing, Water depression, slurry wall, Piled wall, jet grouting

Permanent track

Comprehensive work package for installation of the engineering networks:

Power supply, heating, ventilation, sewer, water supply, lighting, low current systems

Architectural and finishing work of any complexity, including marble and granite lining, mosaic pictures, modern finishing materials

Commissioning



Main types of work for modernization of Moscow metro De-install structures and the engineering systems of a running project Install new bearing structures while metro is running Repair the bearing structures using the modern technologies and materials Water proofing work of any complexity

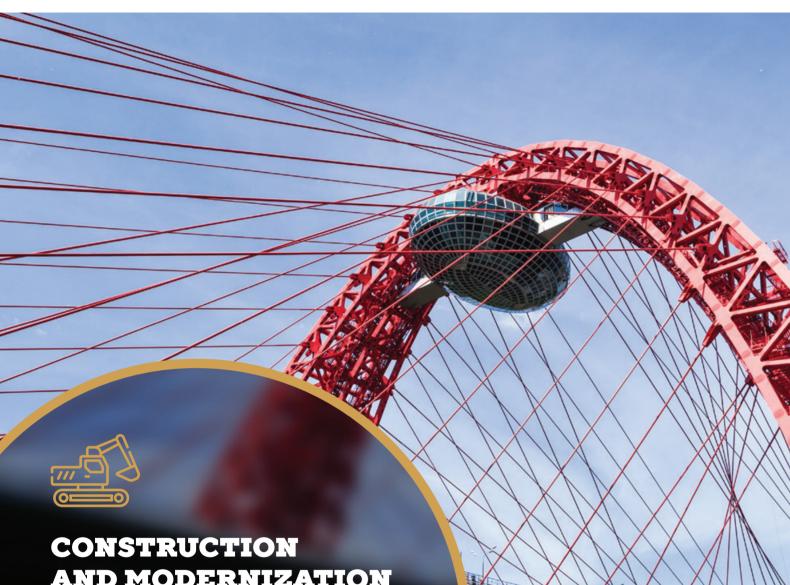




b Kashirskaya

Architectural and design finishing

Assemble the engineering systems and install the equipment. Commissioning



CONSTRUCTION AND MODERNIZATION OF THE TRANSPORT INFRASTRUCTURE PROJECTS

Mosmetrostroy proved to be a reliable contractor for construction and repair of the traffic and railway tunnels, transport junctions, transfer hubs.



"Ploshchad Gagarina" transfer hub

This is the only underground station of Moscow central circle built by Mosmetrostroy for the reason to provide the pedestrian link between the station of the central circle and "Leninskiy prospekt" station at Kaluzhsko-Rizhskaya line.



Roofed pedestrian bridge as a part of "Solnechnaya" transfer hub

The Mosmetrostroy specialists built a new safe and roofed pedestrian bridge instead of the old bridge over the railway.



Construction of a part of Krasnopresnenskiy prospect from Moscow Ring Road to Marshal Zhukov's Prospect 7 km long

The highway consists of the unique facilities:

"Severo-Zapadniy" tunnel and "Zhivopisniy" cable bridge with an arch. On top of the bridge there is a hanging 2 level spheroid with the panoramic windows. It has a viewing spot inside. It was built for the first time in Russia when a 3-lane road and the metro line (from "Krylatskoye" to "Strogino" station) were combined in the cross section of the bridge. The tunnels were built by means of the tunnel boring machines. The main tunnel was built with a 14.2 m diameter and the service tunnel was built with a slurry TBM 6.28 m in diameter.



Reconstruction of the junction at Zvenigorodskoye highway with Moscow Ring Road and Novorizhskoye highway

The newjunction allowed the motor transport to quickly overcome the transit directions of the highways. This transport hub is a four-level structure. The first level is a direct route connecting Zvenigorod highway with Novorizhskoye highway. The second is the Moscow Ring Road. The third is a 1.5 km overhead road for the exit from the western direction to Novorizhskoe highway. The fourth one is a 1.5 km overhead road for the exit from Novorizhskoye highway to the Moscow Ring Road towards Leningradskoye and Dmitrovskoye highway. The second overhead road is located under the first one and goes into the tunnel underneath the Moscow Ring Road. It is 180 m long.



Tunnel type transport junctions in Kutuzovsky prospect, Gagarinskaya square and Lefortovo district in the 3rd transport ring

The tunnels under Kutuzovsky highway were built with the "Milan method", meaning the traffic was not closed down during construction. Totally they built six tunnels. The length of the central ones is 610 meters. Mosmetrostroy built a part of Gagarinsky road and a railway tunnel. They used the most up-to-date technologies when laying the superstructure to provide protection from vibration. While building Lefortovo road tunnel the specialists of Mosmetrostroy arranged a 30-meter tongue around the pit. Such approach was used for the first time in Russia.



Throughout its history Mosmetrostroy has expanded the scope of activity doing construction and reconstruction of the administrative buildings, industrial, residential and architectural historical facilities, underground garages, shopping malls and many other structures.

The company started from construction of housing for tens of thousands of people who came to Moscow from different regions of the country to build metro. In total, Mosmetrostroy built over 400.000 m² of housing.

In addition, the specialists of Mosmetrostroy were called for construction and repair of various

projects, such as the former Verhnive Torgoviye Ryady (trading rows) on Red Square, the current building of GUM, the Kremlin, the Government House, the premises of the Manezh, which was converted into the Central Exhibition Hall, the country's largest store for children - Detskiy Mir, the hotels Russia, Moscow, President Hotel, the Prague restaurant, the Olympic facilities, Luzhniki stadium. All large-scale work was performed with high quality and in a short time.

For recent years they built schools in Moscow and its region, a new 9-storey office of the Retirement Fund of the Russian Federation and repaired a choral synagogue.

> 40thous. m² of the housing property has been commissioned since the company was established



PRODUCTION **OF CONSTRUCTION** MATERIALS **AND STRUCTURES**

Mosmetrostroy has the capacity to • metal structures; produce construction materials and • tunnel support machines and structures, such as:

- high precision tunnel lining;
- commodity concrete.



various labour saving tools;

SPECIAL MACHINERY AND EQUIPMENT



Technical Parameters

Type

For mixed ground, Earth pressure balance

Cut diameter

6 250 mm

Total length

79 m

Weight

480 t **Installed power**

1900 kW

Primary voltage 10 000 V

Lining

Prefabricated reinforced concrete segments

External diameter: 6 000 mm Internal diameter: 5 400 mm Thickness: 300 mm Length: 1400 mm Arrangement: 6 segments + 1 key

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Herrenknecht S-290	
3-230	

Technical Parameters

Type For mixed ground, Slurry machine **Cut diameter**

6 320 mm **Total length**

64 m

Weight

480 t **Installed power** 1600 kW

Primary voltage

10 000 V

Lining

Prefabricated reinforced concrete segments



External diameter: 6 000 mm Internal diameter: 5 400 mm Thickness: 300 mm Length: 1200 mm Arrangement: 6 segments + 1 key



Technical Parameters

Type

For mixed ground, Earth pressure balance

Cut diameter

6 174 mm **Total length**

83 m

Weight

549 t Installed power

1274 kW

Primary voltage

6 000 V Lining Prefabricated reinforced

concrete segments

External diameter: 6 136 mm Internal diameter: 5 400 mm Thickness: 300 mm Length: 1000 mm Arrangement: 6 segments + 1 key

Herrenknecht **VSM 10 000**

Technical Parameters

Type

For mixed ground, Down movement of the shaft lining by means of the immersed hydraulic

jacks Thrust

Max - 1000 mm **Rotation angle**

Left / right

Max – 190° **VSM** height

11 m

Installed power 1200 kW

Primary voltage 400 W

Weight of the VSM items

- 1. Steel foundation 88 t 2. Boring machine (arm + dome) – 72 t 3. Power plant – 17 t 4. Centrifuge – 35 t 5. Separator – 25 t 6. Container with a bigger water

tank – 14 t

tank – 8 t

8. High pressure pumps – 11 t

9. Operator's room – 4.5 t

Lining

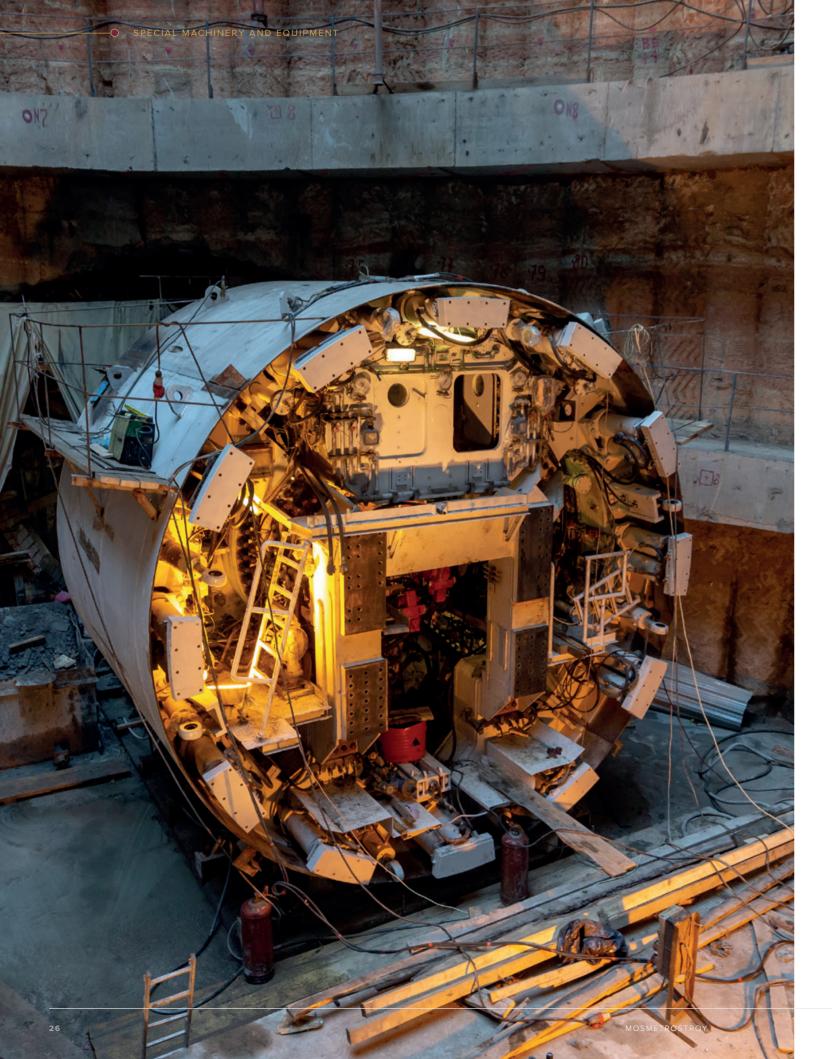
segments

Vertical shaft sinking machine



- 7. Container with a smaller water
- Prefabricated reinforced concrete

External diameter: min – 6 740 mm, max – 8 700 mm Internal diameter: min – 5 700 mm, max – 7 800 mm Thickness: 350 mm Length: 1000 mm Arrangement: 3 segments



Various Equipment owned by the Company as of January, 1st 2021

	Description Quantity
1.	Face equipment Km-14E 1 (ТУ-1Гп, ТН-16, ПП-8А)
2.	Tunnel lining placer TY-1[n 9
3.	Station type tunnel lining placer Typea 5 TY-2Fn 5
4.	Station type tunnel lining placer Typea 7 TY-4Fn
5.	Tunnel lining placer (THY-3), inclined 4 type, c/w the loader (MПH)
6.	Tunnel lining placer (THY-4), inclined 3 type, c/w the loader (MПH)
7.	Station type tunnel lining placer 1 YC-01
8.	Tunnel lining placer for short passages 1 YKB
9.	Shaft hoist 2Ц-2x1, 1УХЛ4 10
10.	Shaft hoist Ц-2х1, 5АР УХЛ4 3
11.	Shaft hoist 2B2810 4
12.	Locomotive for suspended floor-rails 19 PLP50F-II-M (rail gauge 600 mm)
13.	Loader 1ППН-5 29
14.	Loader NITH-1C 11
15.	Tunnel loader ITC 120 F2 3
16.	Tunnel loader ITC 312 2
17.	Roadheader 1ГПК-С 3
18.	Freeze WTE-100 8
19.	Hydraulic drilling rig 1 LIEBHERR LB36
20.	Hydraulic drilling rig 3 Comacchio MC-1200
21.	Hydraulic drilling rig 2 Comacchio MC-800
22.	Hydraulic drilling rig 1 Comacchio MC-600
23.	Drilling rig 2 LIEBHERR HS 855 HD, HS 845
24.	Drilling rig 2 CASAGRANDE B250
25.	Drilling rig 1 CASAGRANDE B125

	Description	Quantity
26.	Drilling rig SOILMEC HC-81	1
27.	Drilling rig SOILMEC SR 80; SR 60; SR 40	3
28.	Demolition robot HUSQVARNA; BROKK 260; 400	11
29.	Various tunnel lining placers, including (TУ-1Гп; ТУ-2Гп; ТУ-4Гп; ТНУ-3; THУ-4; УС-01; УКВ; GTA-7500 ТАМ)	32
30.	Tunnel locos, diesel locos, electric locos	69
31.	Rock loading machine	40
32.	Road header	9
33.	Demolition robot	12
34.	Tower crane	32
35.	Bridge crane	45
36.	Gantry crane	13
37.	Truck mounted crane and loader crane	80
	Caterpillar crane	4
39.	Bulldozer	9
40.	Clamp bucket	7
41.	Drilling rig	32
42.	Excavator	36
43.	Loader	40
44.	Tractor	6
45.	Truck	166
46.	Tow truck	21
47.	Truck mounted mixer	16
48.	Tunnel conveyor system H+E Logistic with the vertical cassette	2
49.	Tunnel conveyor system Continental with the horizontal cassette	1
50.	Diesel-hydraulic tunnel locomotive Schöma-CFL-350	16
51.	Diesel-hydraulic tunnel locomotive Schöma-CFL-180-DCL	4

PERFORMANCE FIGURES **FOR 2021**

Special subsidiaries of Mosmetrostroy build tunnels and the metro stations with open cut and by means of the tunnel boring machines in any type of the geological conditions

34 088 m³

Arrangement of excavation pits (bored secant piles and diaphragm walls)

543 215 m³

Excavation of pits for stations and concourses

107 m

Excavation of stations, escalator tunnels (closed way)

6 953 m

Tunneling by means of the tunnel boring machines (Herrenknecht, Lovat)



Laying cables and wires





PROJECTS

16

PROJEC

PROJECTS IN PROGRESS

1. Sokolniki station

3

19 19

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6

IOSMETROS

- 2. Rizhskaya station
- 3. Mar'ina Roshcha station
- 4. Yakhromskaya station
- 5. Lianozovo station
- 6. Fiztekh station
- 7. Reconstruction of Kakhovskaya station
- 8. Reconstruction of Varshavskaya station
- 9. Reconstruction of Kashirskaya station
- **10.** Reconstruction of four tunnels in Vrnitsa-Bar section in the Republic of Montenegro

1



PROJECTS COMPLETED FOR THE LAST 5 YEARS

- **1.** Tchortanovtsy tunnels in the Republic of Serbia
- **2.** 46 engineering structures in the Republic of Serbia
- 3. Refurbishment of Amur tunnel in the Far East of Russia
- 4. Elektrozavodskaya station
- **5.** Lefortovo station
- 6. Aviamotornaya station
- **7.** Reconstruction of seven stations in Filyovskaya line
- 8. Upgrade of Vladivostok tunnel in the Far East of Russia
- 9. Savyolovskaya station
- **10.** Seligerskaya station
- **11.** Verkhniye Likhobory station
- **12.** Okruzhnaya station
- **13.** Reconstruction of two concourses of Leninskiy Prospekt station
- 14. Second exit of Mezhdunarodnaya station
- **15.** Reconstruction of the concourse of Petrovsko-Razumovskaya station
- **16.** Covered pedestrian bridge as a part of the transport interchange hub Solnechnaya
- 17. Petrovsko-Razumovskaya station
- 18. Fonvizinskaya station
- **19.** Butyrskaya station
- 20. Ploshchad Gagarina transport interchange hub
- **21.** Salar'yevo station
- 22. Roumyantsevo station
- 23. Troparyovo station

AHH

NORTH-EASTERN PART OF THE BOLSHAYA KOLTSEVAYA LINE OF MOSCOW METRO

SAVYOLOVSKAYA STATION – ELEKTROZAVODSKAYA STATION (SECOND STAGE)



The large scope of work is being carried out in the second stage of the north-eastern direction of Bolshaya Koltsevaya line, from Elektrozavodskaya to Savyolovskaya station. It will be linked to the north-western part of the ring, from Delovoy Tsentr to Savyolovskaya station.

As of today, Mar'ina Roshcha and Rizhskaya stations are two of the several last stations being built at the depth more than 65 meters.

Government Client Department of construction for Moscow

General contractor/client Mosinzhproyekt

Designer Metrogiprotrans

Contractor Mosmetrostroy

Length of the line 7.9 km

Number of stations

Start of work 2017





SOKOLNIKI

STATION

TYPE OF THE STATION

shallow, column-type station, with island-type platform.







СОКОЛЬНИКИ







RIZHSKAYA STATION

Address: Moscow, Meshchanskiy district, Krestovskiy flyover and Rizhskaya square.

TYPE OF THE STATION

Deep, pylon type three-vault station with a platform of an island type.







9 236.6 m² Total underground area





MAR'INA ROSHCHA STATION

Address: Moscow, Mar'ina Roshcha district, crossing of Sheremetjevskaya street and the 3rd passing of Mar'ina Roshcha.

TYPE OF THE STATION

Deep, three-vault pylon station with the platform of an island type.



LYUBLINSKO-DMITROVSKAYA METRO LINE THE THIRD STAGE



9 064 m have been bored by the tunnel boring machines for the entire construction period



1271 m were built by open cut







► 596 808 M³ total volume of the excavated ground

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Three stations will be put into operation as a part of the Seligerskaya- Fiztekh section. They are Yakhromskaya, Lianozovo and Fiztekh. Extension of Lyublinsko-Dmitrovskaya line to Fiztekh station will improve transportation for about 400 thous, people who live and work in Beskudnikovskiy, Vostochnoye Degunino, Dmitrovskiy, Lianozovo and Severniy districts by reducing the travel time for 15-20 minutes. The passengers will be able to select the optimal routes by using metro, urban trains (MTsD, which stands for Moscow Central Diameters), or surface public transport.

Government Client

Department of construction for Moscow

General contractor/client Mosinzhproyekt

Designer Metrogiprotrans

Contractor Mosmetrostroy

Length of the line 5.8 km

Number of stations

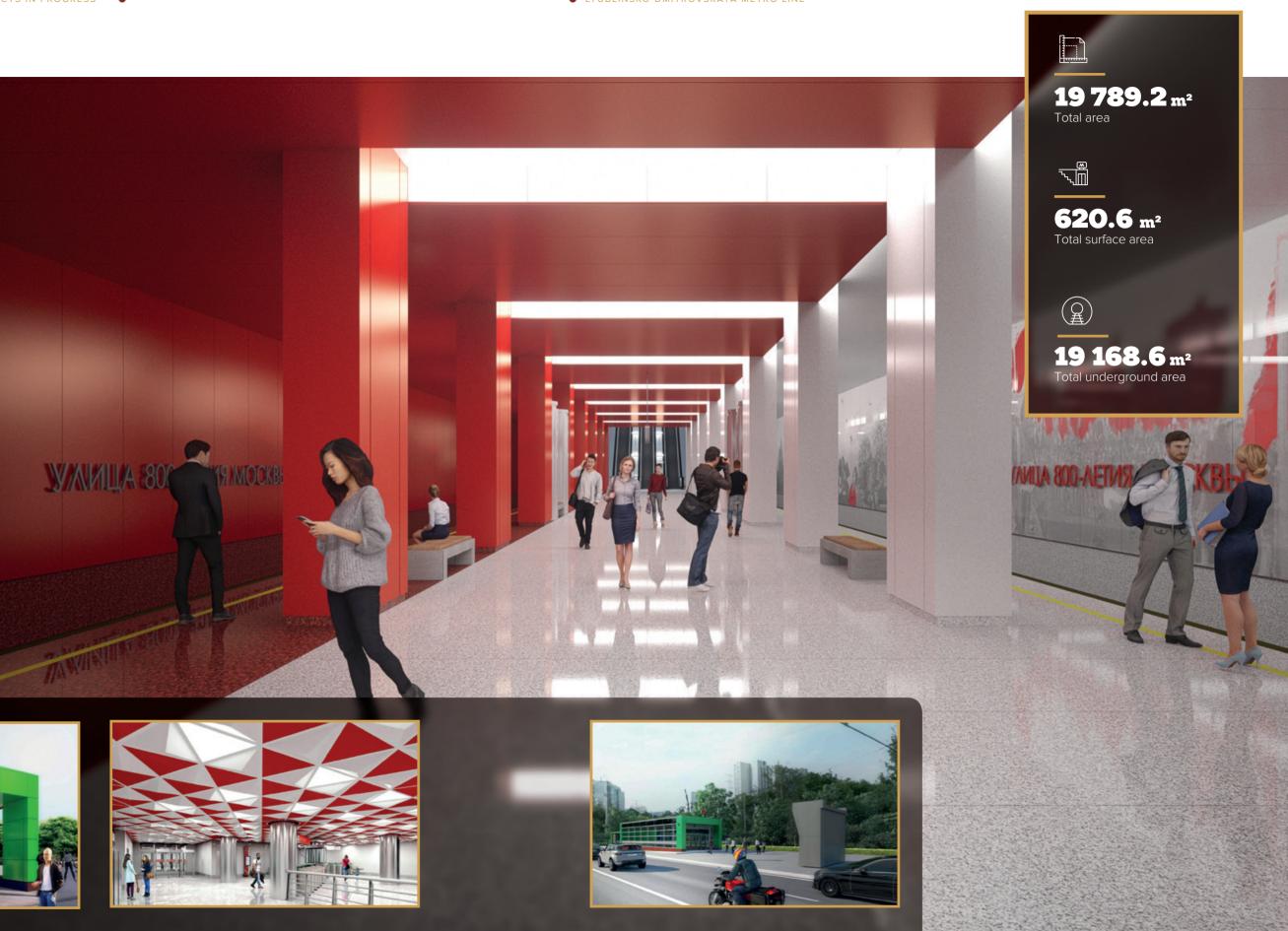
Start of work 2019

YAKHROMSKAYA (ULITSA VOSEMSOTLETIYA MOSKVI) STATION

Address: Moscow, edge of Dmitrovskiy and Vostochnoye Degunino districts, crossing of Dmitrovsk highway and Ulitsa Vosemsotletiya Moskvi street.

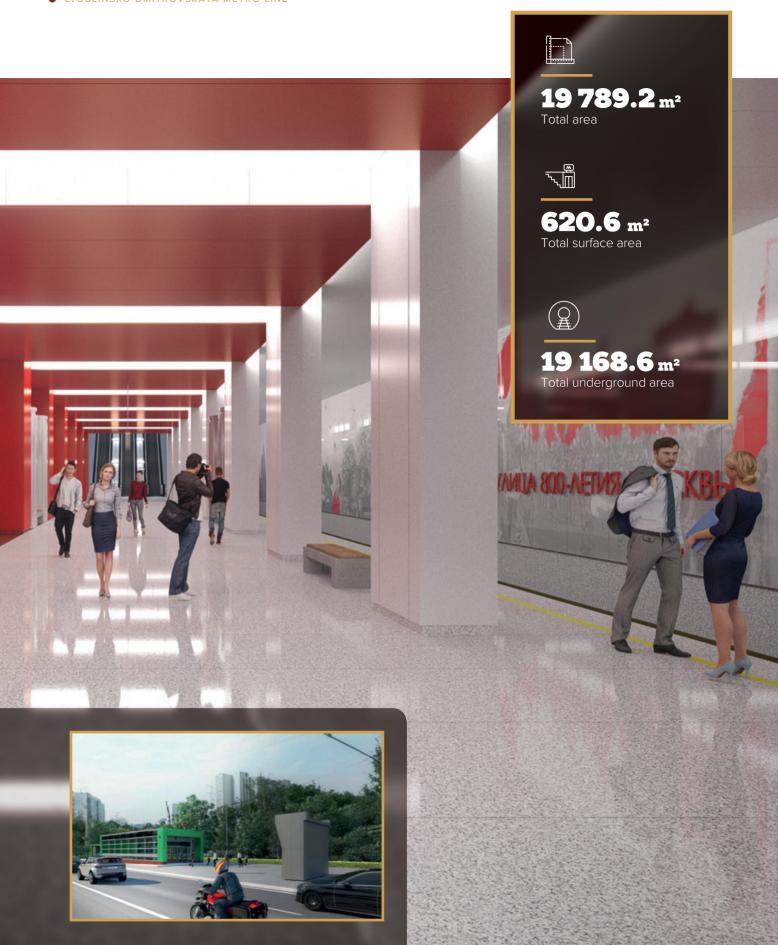
TYPE OF THE STATION

shallow, three-span, column-type station.









LIANOZOVO STATION

Address: Moscow, at the crossing of Lianozovo, Vostochnoye Degunino and Beskoudnikovskiy districts, along Dmitrovskoye highway, and 350 meters away from the railway platform with the same name.

TYPE OF THE STATION

shallow, three-span, column-type station.



19 281.3 m² Total underground area





Address: Moscow, Severniy district, right side of Dmitrovskoye higway, to the north from the boulevard named after the Academician Landau.

TYPE OF THE STATION

shallow, single-vault station.









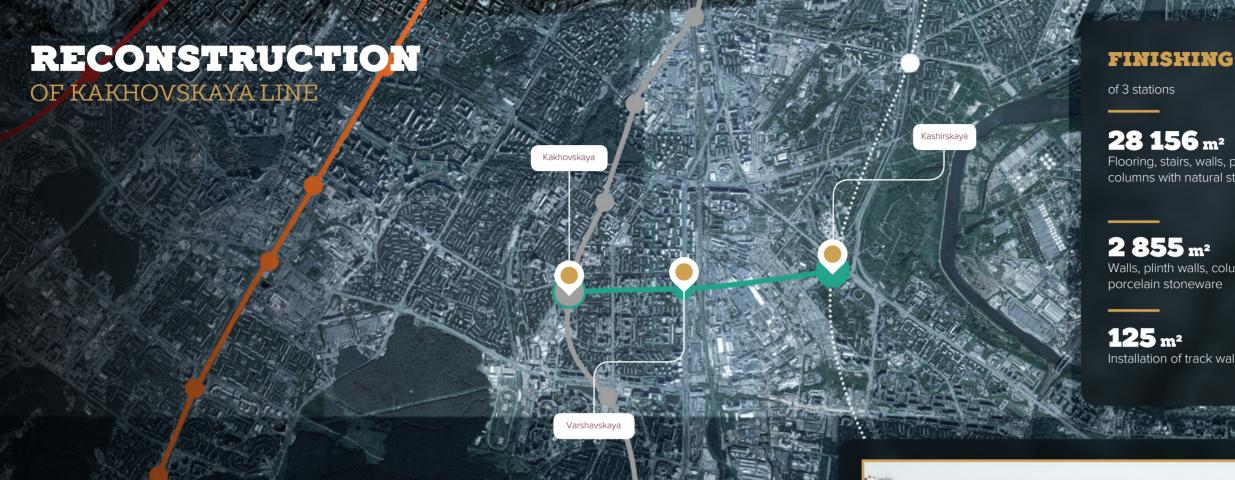
16 655 m² Total area



2764 m² Total surface area







Overhaul of the shortest Moscow metro line started in the spring of 2019. It was required in order to integrate the stations Kakhovskaya, Varshavskaya and Kashirskaya into Bolshaya Koltsevaya line.

The project was broken down into 2 stages. At first stage they finished reconstruction of the Kakhovskaya station, which was opened as a part of the southern section of the Bolshaya Koltsevaya line from the Prospekt Vernadskogo station to Kakhovskaya station. Plus they will build the joining line to Zamoskvoretskoye depot,



with the same name. Afterwards it will be servicing the Bolshaya Koltsevaya line. In the second stage the upgraded sta-

which is now servicing the metro line

tions Varshavskaya and Kashirskaya will be put into operation together with the eastern part of Bolshaya Koltsevaya line, from Kashirskaya to Nizhegorodskaya station.

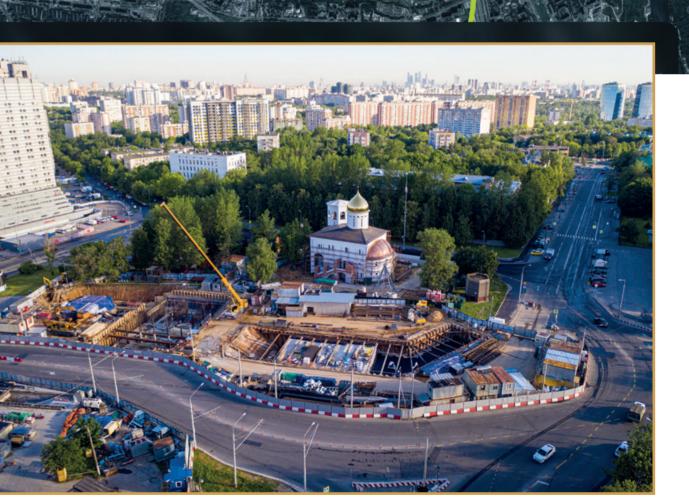
In the course of reconstruction the historical appearance of the stations will be preserved as much as possible. Mosmetrostroy workers will upgrade

stations

the infrastructure, will replace the engineering communications, the track superstructure, the rails, finishing of the walls, columns and the platforms.

In the western end of the Kakhovskaya station they will build an additional concourse with the passage to Serpukhovsko-Timiryazevskaya line. Kakhovskaya station will become more comfortable for the disabled people. In one of the concourses there will a lift which will unite the platform with the ticket hall and exit to the city.





guarter of 2019 Start of overhaul

Flooring, stairs, walls, plinth walls, columns with natural stone

Walls, plinth walls, columns with

Installation of track wall panels

1 274 m² Metal panels on walls



6 691 m² High-quality finishing of the ceiling

KAKHOVSKAYA STATION



50

158

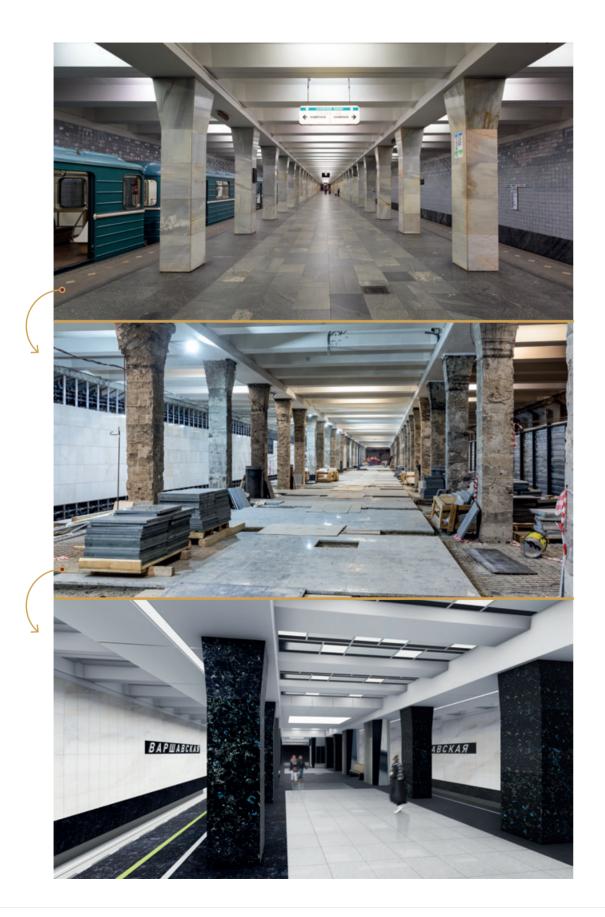


- KAKHOVSKAYA LINE

KASHIRSKAYA

STATION

VARSHAVSKAYA STATION





RECONSTRUCTION **OF THE RAILWAYS**

REFURBISHMENT **OF FOUR TUNNELS** (GROUP 2)

Address: Republic of Montenegro, Kalashin-Podgoritsa railway section.

In September of 2020 MMC International, a subsidiary of Mosmetrostroy, won an international tender for refurbishment of four tunnels in the Republic of Montenegro.

The works can only be carried out during the gaps, which last no longer than 4 hrs 30 mins and have to be carried out from the rail platforms which are fully fit with the equipment, tools and materials.

The following works have to be carried out under the contract for refurbishment of the tunnel lining of four tunnels:

- Drill and inject the bore holes
- Inject behind the lining
- Demolish the broken concrete
- Repair the compensation joints
- and cracks
- Apply spray waterproofing
- Assemble the reinforced shotcrete

The total length of for tunnels together is 986 meters.





352 m Tunnel 3



5.4 m

6m Height of each tunnel from the top of the rails

VRBNITSA – BAR RAILWAY IN THE REPUBLIC **OF MONTENEGRO**



Client

Željeznička Infrastruktura Crne Gore (Railway Infrastructure of Montenegro)

Designer "SBCC" DOO CETINJE

Contractor Mosmetrostroy

Start of work January 2021

End of work August 2022

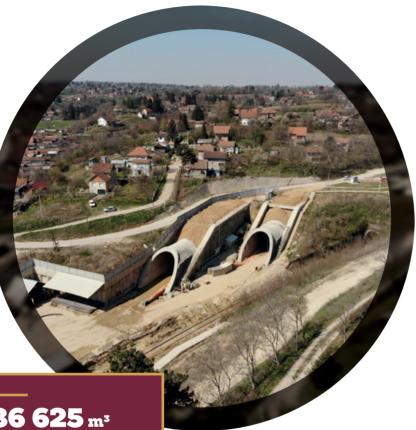
Average width of the tunnel

CONSTRUCTION **OF CHORTANOVTSY TUNNELS IN SERBIA**

Address: Republic of Serbia, chainage 56+400 - 57+550 of Stara Pazova – Novi Sad section.

On April, 24th of 2017 a subsidiary of Mosmetrostroy, MMC International signed a subcontractor agreement for construction of Chortanovtsy tunnels in Republic of Serbia. It is a part of the package for construction and upgrade of twin track railway Belgrad – Stara Pazova – Novi Sad – Subotitsa – the frontier.

According to the project requirements Mosmetrostroy should build two single track railway tunnels, horseshoe type. The tunnels should be built by alpine method of construction. In the first half of 2020 they did a breakthrough of both tunnels. Total length of two tunnels is more than 2 kilometers. The permanent lining was finished in autumn the same year, and in February of 2021 they finished installation of the track superstructure and started assembly of the engineering systems. The works should finish soon.



186 625 m³ Construction volume

1150 m Length of the left tunnel

1090 m Length of the right tunnel

8m Average width of the tunnel

7.45 m Height of the tunnel from the top of the rails

Client

RZD International

Designer CIP (Serbian Design institution)

Contractor Mosmetrostroy

Start of work 2017

> End of work 2021

CONSTRUCTION **OF 46 ENGINEERING STRUCTURES IN SERBIA**

Address: Republic of Serbia, chainage 56+400 – 57+550 of Stara Pazova – Novi Sad section.

Mosmetrostroy people built 46 engineering structures in the section of the railway Stara Pazova-Novi Sad under the reconstruction program of the two track railway Belgrad – Stara Pazova – Novi Sad - Subotitsa - the frontier with Hungary in the Republic of Serbia. They are the flyovers, the pedestrian underpasses, the underpasses for cars, the railway bridges, the overhead roads. All man-made facilities are within the populated places with the existing communication routes and on the

The following structures were built under the contract:

- 33 flyovers
- 5 pedestrian underpasses
- 4 underpasses for cars

crossings of the roads.

- 2 railway bridges
- 2 overhead roads

of ground works

3 008 250.78 kg of re-bars installed



Client **RZD** International

Designer

CIP (Serbian Design institution)



268 737.89 m³

44 595.68 m³

Contractor Mosmetrostroy

Start of work 2019

End of work 2021

MODERNIZATION **OF VLADIVOSTOK TUNNEL, FAR EAST RAILWAY OF RUSSIA**

Address: city of Vladivostok, Leninskiy district, from crossing of Lougovaya and Karskaya stations to Zhigurova street (Tret'ya Rabochaya station).

The tunnel named after Stalin was built in 1935. It has a strategic status and is a historical and architectural landmark of the region. Over the years of operation, it reached a dire state. When a decision to overhaul the tunnel was taken, Mosmetrostroy offered to carry out the required work using the up-to-date technoloay not closing down the tunnel.

During the overhaul they injected behind the lining, suppressed the water inflow, arranged the waterproofing, reinforced the existing lining with an additional layer of shotcrete and repaired the track superstructure. Plus they repaired the service tunnel with the drainage system.

1934 **1 382** m Length of the single track railway tunnel

1 140 m Length of the adit with the drainage system

56 978 m³ Construction volume of the tunnel

7684 m³ Construction volume of the adit

5.5 m Width of the tunnel

6.6 m Height of the tunnel



Client rzd

Designer Roszheldorproyekt

Contractor Mosmetrostroy

Start of works 2016

End of works June 21st 2019

REFURBISHMENT OF AMUR TUNNEL. **FAR-EASTERN** RAILWAY. SECOND STAGE

Address: city of Khabarovsk, three track section between Khabarovsk-1 and Post-Pokrovskiy stations.



7104 m is the length of the single track rail tunnel

In February of 2020 MMC International, a subsidiary of Mosmetrostroy started refurbishment of the ventilation shaft N°3, the buildings and the security facilities on Mostovoy island.

The single track rail tunnel was built in 1937-1941 as a duplicate strategic crossing over Amur river. It is the only rail track under water in Russia. The tunnel provides complete and stable service as a part of Trans-Siberian railway in the city of Khabarovsk.

The accomplished works are as follows: repair the ventilation shaft plus reinforced concrete jacketing, build the switchboard room, a building for the security, the kennels for the security dogs, warehouse, etc., power supply, lighting, communication, water supply, sewer, heating, etc., plus improvement of the territory.

ventilation shaft > 14 000 m

refurbishment of the power supply for the ventilation shaft refurbishment of the power supply for the ventilation shaft N°3 and the security equipment

20 400 m³ of landfilling for security facilities and the approach roads

400 m³ the new reinforced concrete jacketing of the ventilation shaft

2000 m² waterproofing of the

Client RZD

Designer Roszheldorproyekt

Contractor Mosmetrostroy

Start of works 2020

End of works 2021



SCOPE OF FINISHING

 $\begin{array}{l} \mbox{Granite slabs (flooring and stairs)} & -15\,682\,m^2 \\ \mbox{Granite and marble (walls, columns, base)} & -14\,646\,m^2 \\ \mbox{Aluminum panels (walls)} & -4\,629\,m^2 \\ \mbox{Suspended ceiling} & -11\,716\,m^2 \\ \mbox{High-quality finishing of the ceiling} & -13\,283\,m^2 \end{array}$

NORTH-EASTERN SECTION OF BOLSHAYA KOLTSEVAYA LINE OF MOSCOW METRO

AVIAMOTORNAYA STATION – RUBTSOVSKAYA STATION (FIRST STAGE) ----



This is the biggest project in the entire history of Moscow metro. It will resolve the current problems with transportation of the passengers. The future second circular line will pass about 10 km away from the existing Koltsevaya line and will unite the existing and projectable radial directions. It will become the longest metro line in this country. Its total length will be 70 km.

Construction of Bolshaya Koltsevaya line is broken down in several stages.

The first stage was near the Yauza river, from Elektrozavodskaya to Aviamotornaya station. At present this section is working on a temporary basis as an extension of Nekrasovskaya line. Later on the stations will become a part of Bolshaya Koltsevaya line.

Government Client Department of construction for Moscow

General contractor/client Mosinzhproyekt

Designer Metrogiprotrans

Contractor Mosmetrostroy

Length of the line 6.7 km

Number of stations

Start of work 2015

Date of opening

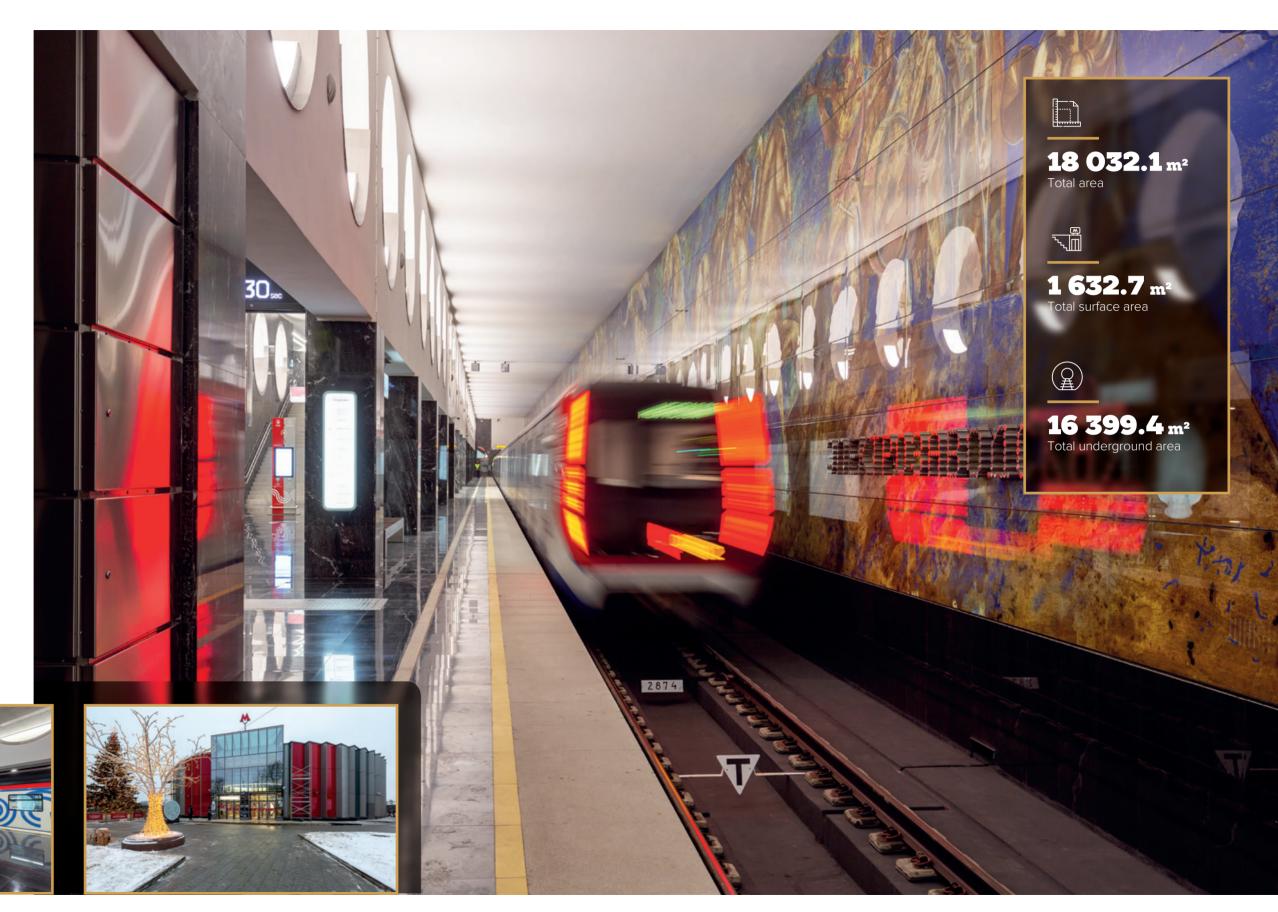
March, 27th, 2020 (Aviamotornaya and Lefortovo stations) December, 31st 2020 (Elektrozavodskaya station)

ELEKTROZAVODSKAYA STATION

Address: Moscow, Basmanny district, Semyonovskaya embankment.

TYPE OF THE STATION

Shallow, column type with a platform of an island type.

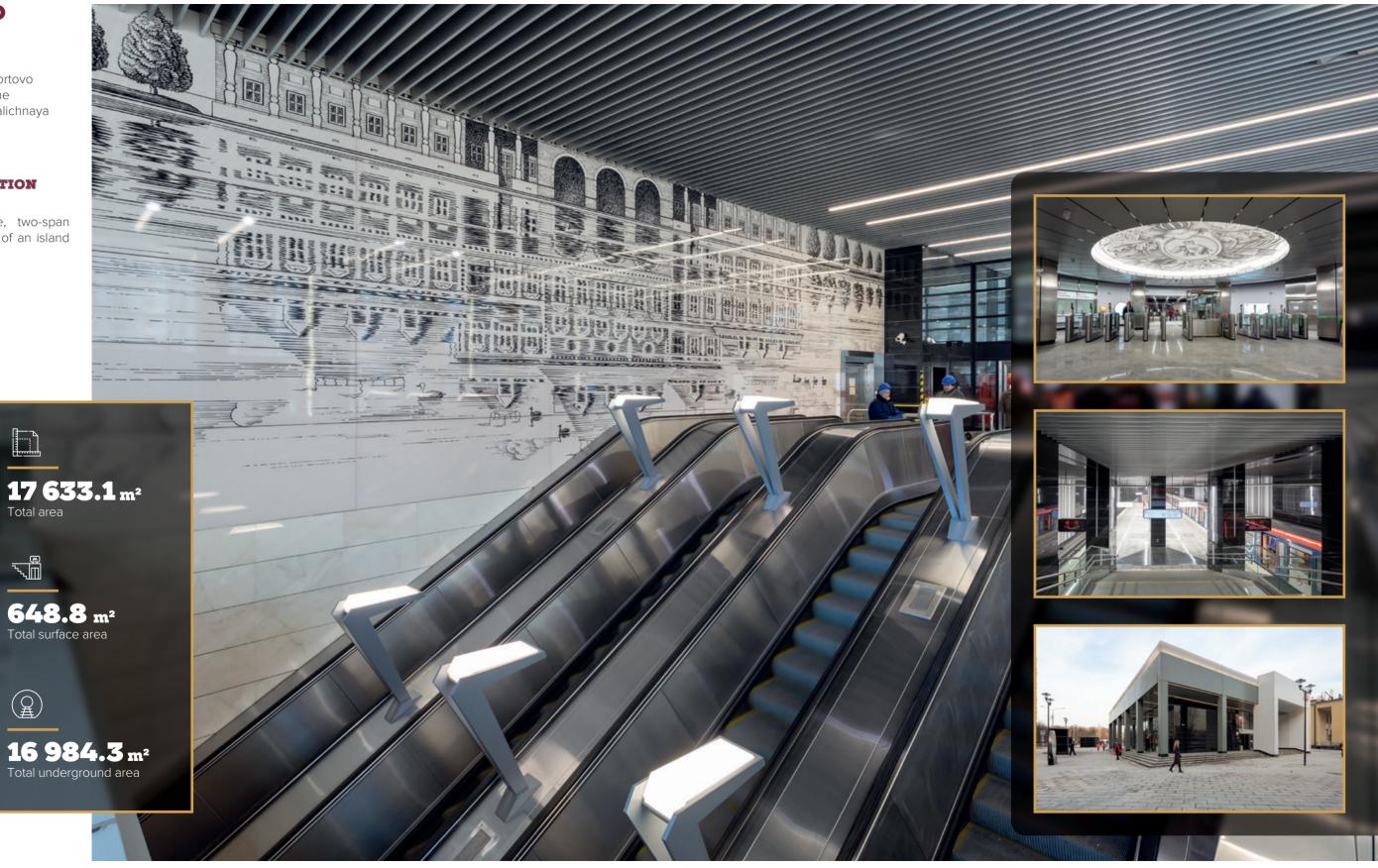


LEFORTOVO STATION

Address: Moscow, Lefortovo district, cross point of the Soldatskaya and the Nalichnaya streets.

TYPE OF THE STATION

Shallow, column type, two-span station with a platform of an island type.

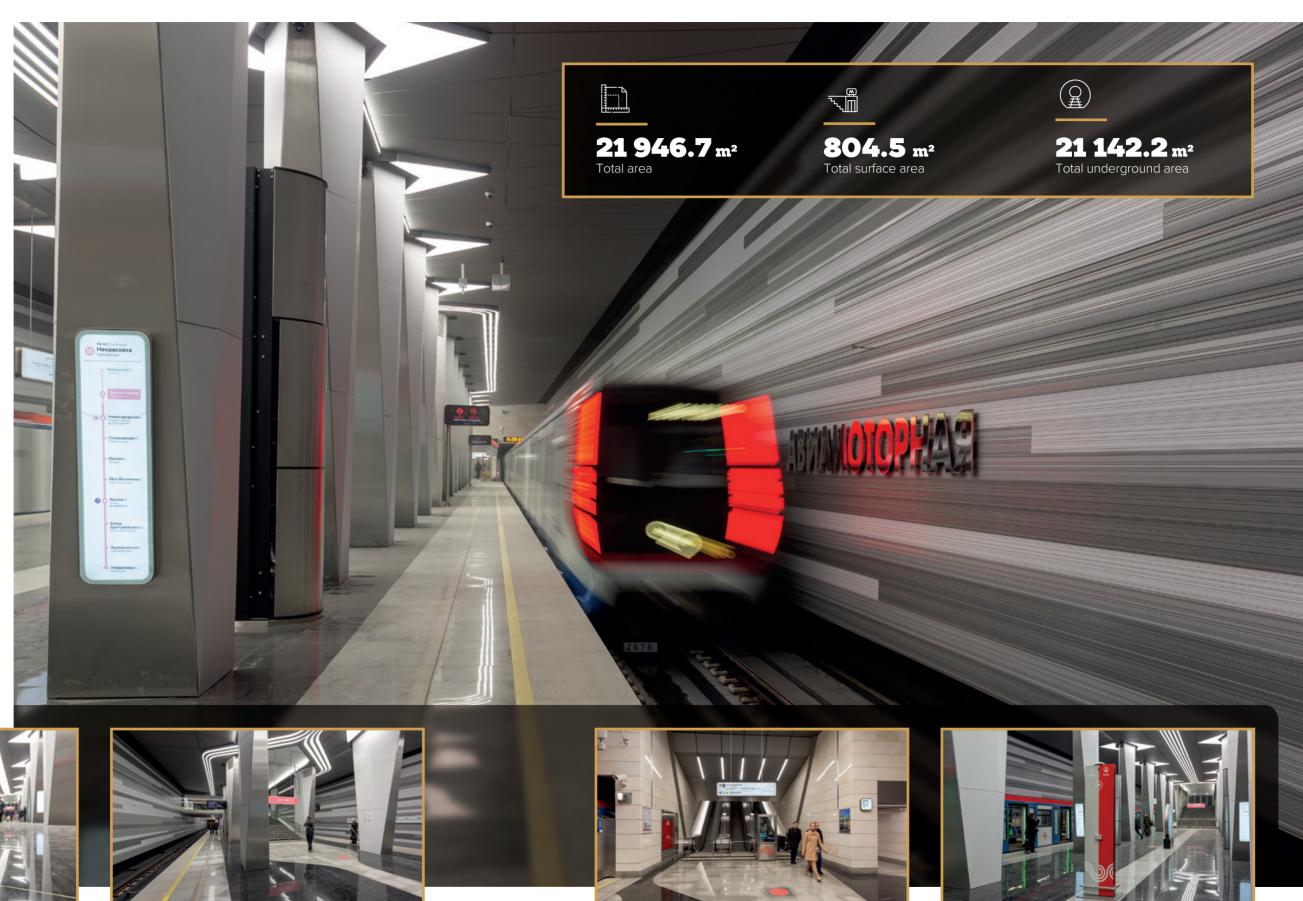


AVIAMOTORNAYA STATION

Address: Moscow, the meeting point of the historical districts Lefortovo, Sokolinaya gora and Dangauerovskaya sloboda; Entuziastov passage at the cross point with Entuziastov highway and Kazanskoe direction of Moscow Railway.

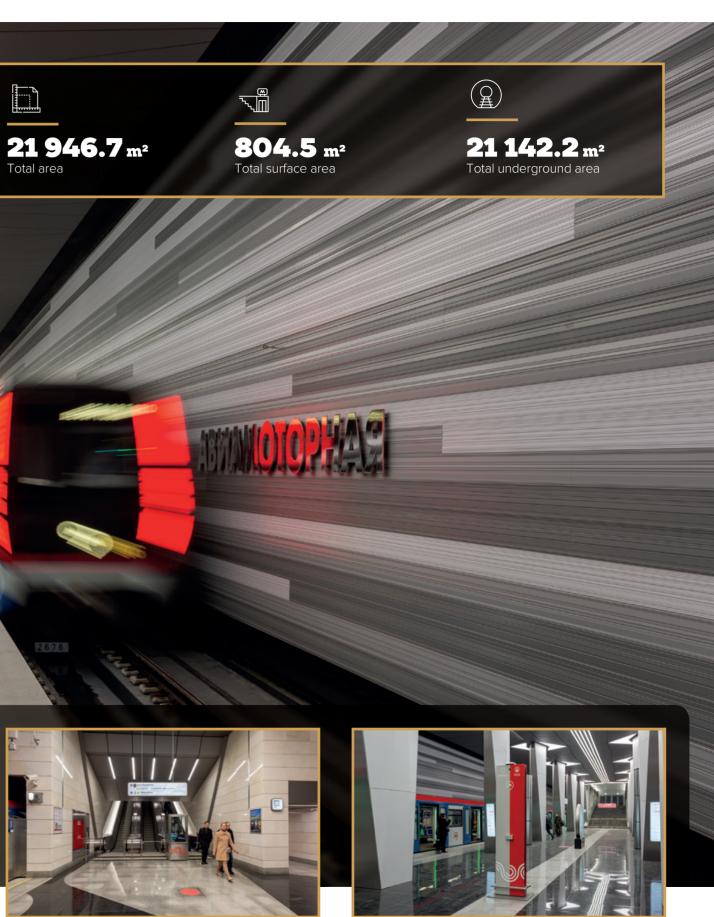
TYPE OF THE STATION

Shallow, column type, three-span station with two rows of the columns and a platform of an island type. In the middle of the central concourse there is a passage to Kalininskaya station of the Kalininskaya line.









SAVYOLOVSKAYA STATION

AS A PART OF PETROVSKIY PARK – SAVYOLOVSKAYA STATION, BOLSHAYA KOLTSEVAYA LINE



2090.32 m

of deep conventional excavation, which includes the niches, adits and inclined tunnels





12 094.3 m³ of concourse construction





MOSMETROSTROY

80 **AET**

ПЕТРОВСКИЙ ПАРІ



The Savyolovskaya station was built by alpine method and it is 65 meters deep. This allowed carrying out works in the dense urban environment.

The station will become a part of the new transport interchange hub, Savyolovskiy, which will unite the passenger traffic of Savyolovskiy railway station, two metro lines, Serpukhovsk-Timiryazevskaya and Bolshaya Koltsevaya, and the surface public transport.

Government Client Department of construction for Moscow

General contractor/client Mosinzhproyekt

Designer Metrogiprotrans

Contractor Mosmetrostroy

Length of the line 1.9 km

Number of stations

Start of work

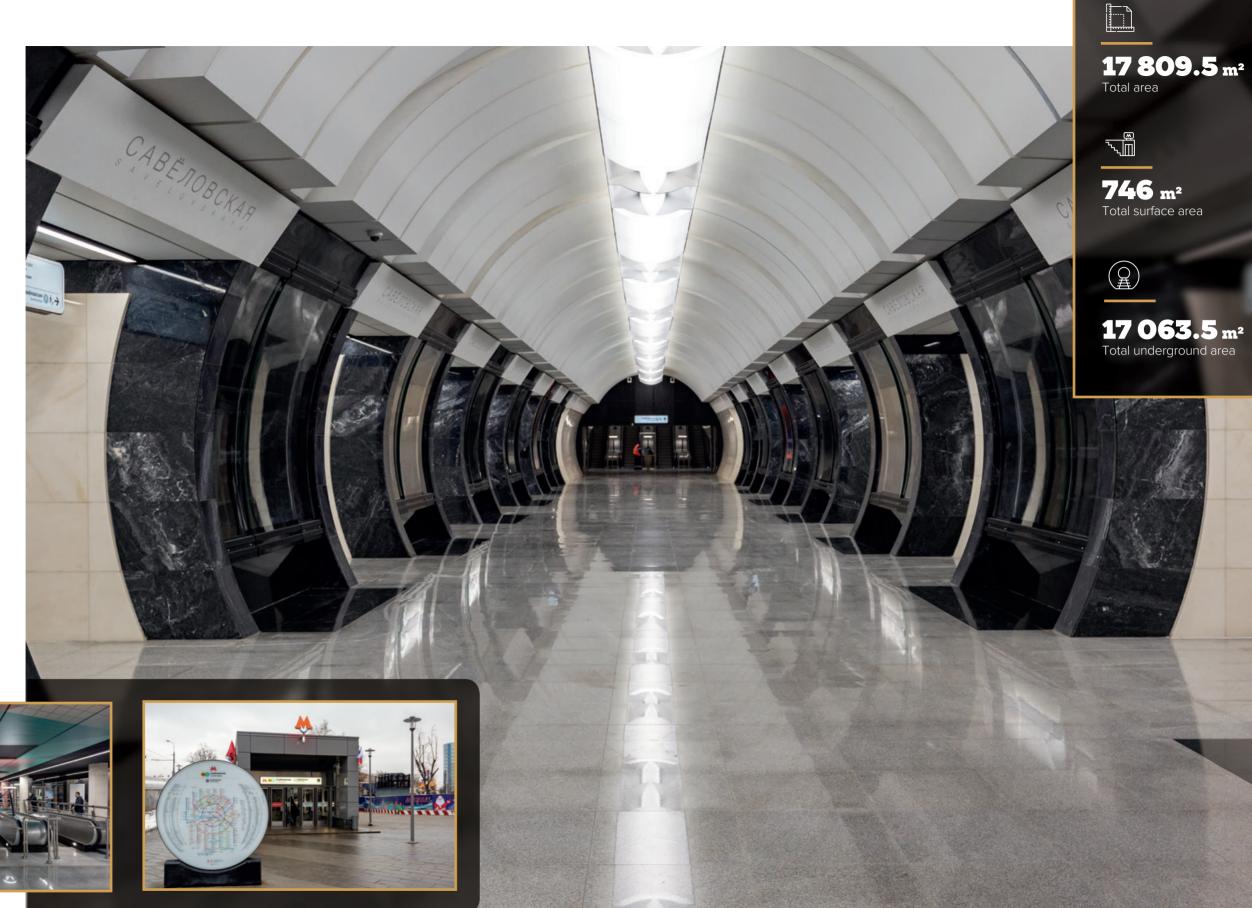
Date of opening December, 30th, 2018

SAVYOLOVSKAYA STATION

Address: Moscow, Savelovskiy district, square of Savelovskiy railway station.

TYPE OF THE STATION

Deep, pylon type, 3-span station.





Reconstruction of the surface stations in Filyovskaya line and its related infrastructure is a large-scale project where the existing facilities had to be run down, the carrying structures were reinforced, the engineering networks were upgraded, asphalt

was replaced with granite, the new covers with infrared heating were installed and plus architectural finishing was done. In order to keep the traffic going they had to carry out the work in stages. First they repaired one concourse and the platforms on the way

from the city downtown, and then on the way to the downtown. Owing to the added lift zones, the total square of the stations increased as well, namely Fili station by 84.4 m², Studencheskaya station by 23.8 m², Pionerskava station by 246 m².

INISHING MATERIALS	Before reconstruction	
CONCOURSE		0
FLOORING	Ceramic tiles	Gr
WALLS	Ceramic tiles, plaster	Po
CEILING	Plaster, paint	Pl
STAINED-GLASS WINDOWS	Twin stained-glass windows (shop type)	Si
LIGHTING	Fluorescent lamps	LE
FACADE	Stained-glass windows, plaster, paint	St sy ar
FACADE PLINTH	Ceramic tiles	Gr
NEW DETAILS OF THE FACADE		M
LATFORM		
FLOORING	Asphalt	G

FLOORING	Asphalt	6
WALLS	Concrete wall	F
PLATFORM COVER	Profiled sheets on concrete slabs	R
HANDRAILS. FENCING	Black painted metal	F

quarter of 2016 Start of reconstruction



Completion date

~ 14 800.7 m² Flooring, stairs, walls, plinth walls,

~ 5 358.38 m²

Flooring, stairs, walls, plinth walls, columns with porcelain granite

Stained-glass windows of the concourse facades and the walls

~ 30 794.4 m² Flooring, walls and columns

■ 1 308 m² Galvanized painted panels on

walls and cornishes





After reconstruction

Granite tiles, waste pit, heating system in the entrance
Porcelain granite, plaster, stained-glass windows for interior walls
Plaster, paint, metallic ceiling systems
Single windows with energy-saving glass
.ED lamps
Stained-glass windows, façade system, new lighting system, new ventilation system, new water supply and water diversion systems, new communication wiring and power supply lines
Granite tiles
Netalic facade panels

Granite tiles Frameless glass on granite base, wall made of metal sheets Roof sandwich panel with coating and in-built lighting Polished stainless steel



FILYOVSKAYA LINE BEFORE – AFTER

MOSMETROSTROY

1 Bac

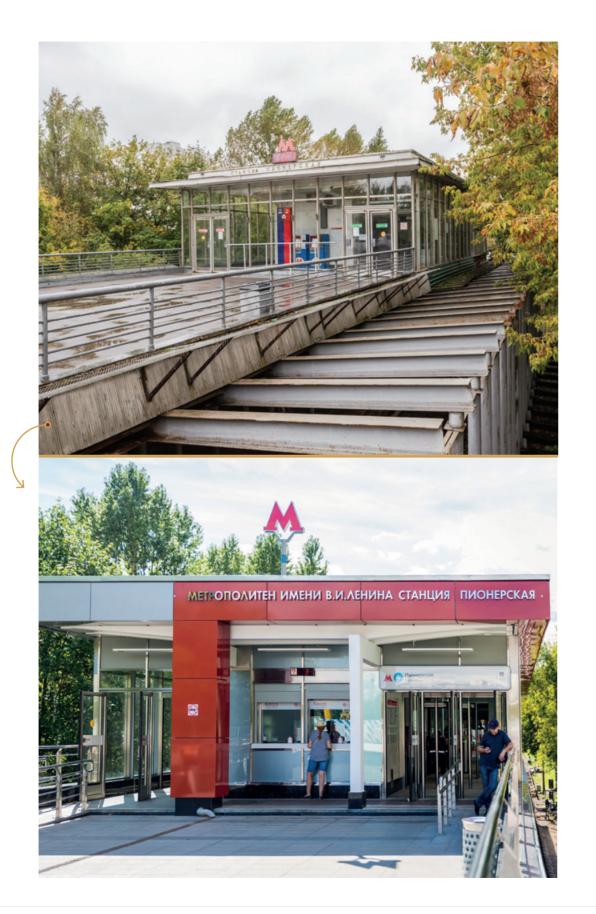


PIONERSKAYA

STATION

- FILYOVSKAYA LINE

FILYOVSKIY PARK STATION







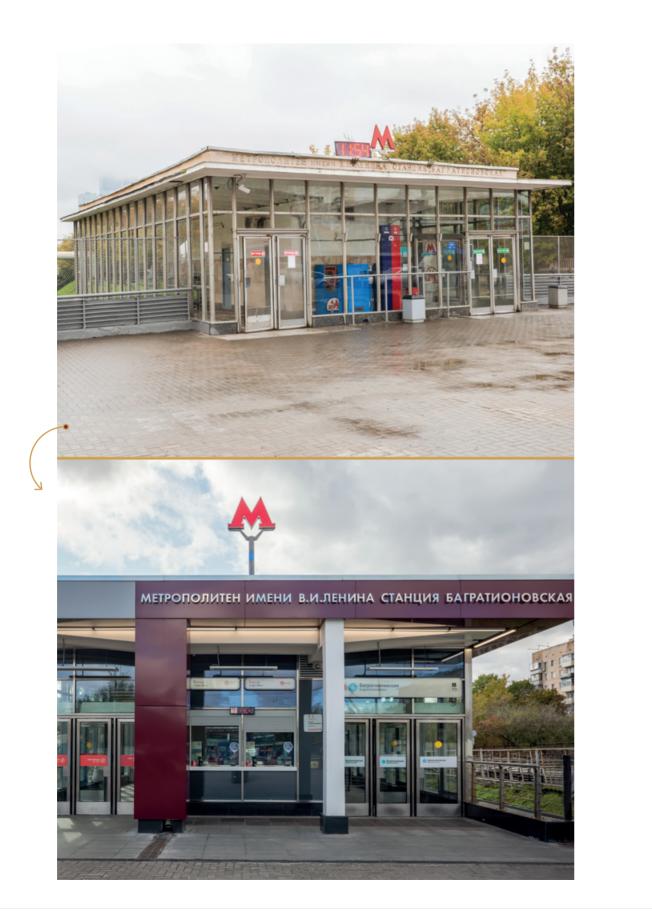
- FILYOVSKAYA LINE

FILI

STATION

BAGRATIONOVSKAYA

STATION

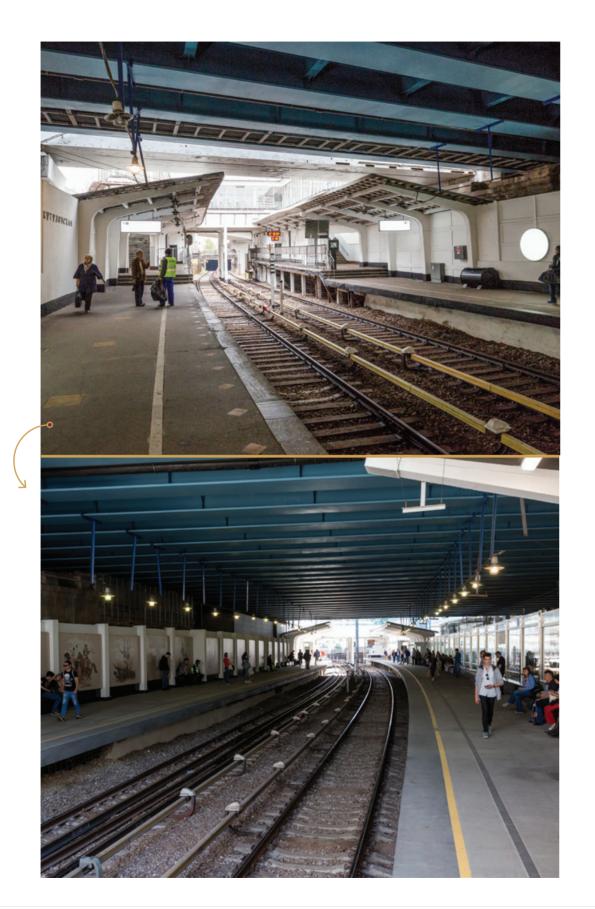






- FILYOVSKAYA LINE

KUTUZOVSKAYA STATION









ARARLAN

LYUBLINSKO-DMITROVSKAYA METRO LINE

THE SECOND STAGE



12 000 m have been excavated for the entire construction period



9 389 m

from the entire length was built by means of the tunnel boring machines



2410 m

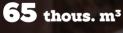
of deep tunnels were built by conventional method, including the tunnel adjacent structures and the inclined tunnels



were built by open cut



Total volume of concrete is



Total volume of the excavated ground is



FINISHING



This part became one of the most laborious in construction history of Moscow metro. The experts faced with a large water inflow. At "Verkhniye Likhobory" station water inflow would reach 350 m³ per hour. To cope with such water inflow they used both classical dewatering and two-component chemical.

Granite flooring (floor and stairs) – 11 909.7 m² Granite and marble (walls, columns and ground floors) – 8 394.3 m² Ceramic granite (walls) – 1 483.6 m² Aluminum panels (walls) – 3 113 m² Waterproof aluminum umbrellas – 9 414.9 m² Fiberglass umbrellas (in inclined tunnels) – 2 678.4 m² Counter ceiling – 3 055.8 m² Ceiling high finish – 3 340.8 m²



The main client Moscow Construction Department

Client, General Contractor Mosinzhproyekt

Designer Metrogiprotrans

Contractor Mosmetrostroy

Line length 6.2 km (including a line to Likhobory depot)

Number of stations

Start of work 2011

Opening date March, 22nd 2018

СЕЛИ

SELIGERSKAYA STATION

Address: Moscow, Beskudnikovskiy district, crossing of Dmitrovsk and Korovinsk highways

TYPE OF THE STATION

Shallow, column type, three-span station. There are two tunnels behind the station for the purpose to extend the line. For the train reverse there is a scissors-crossing.



13 509 m² Total area



 755 m^2 Total surface area





12 754 m² Total underground area





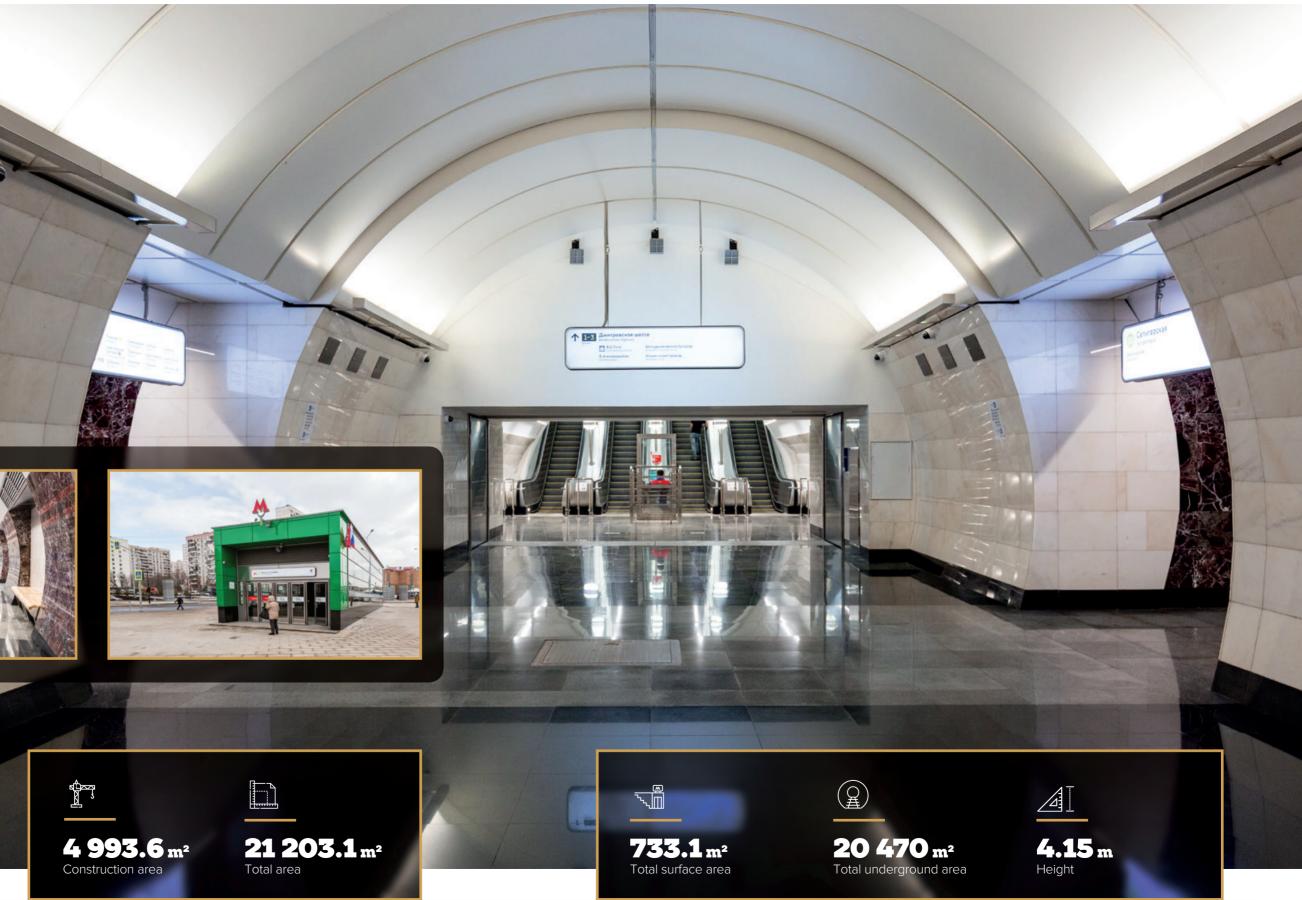
VERKHNIYE LIKHOBORY STATION

Address: Moscow, crossing of Beskudnikovsk and Zapadnoye Degunino districts, along Dmitrovsloye highway.

TYPE OF THE STATION

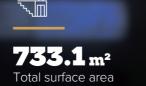
Deep, three-span station, with lining made of the cast iron segments. External diameter of the side tunnels is 8.5 m and the central tunnel is 9.5 m.













OKRUZHNAYA STATION

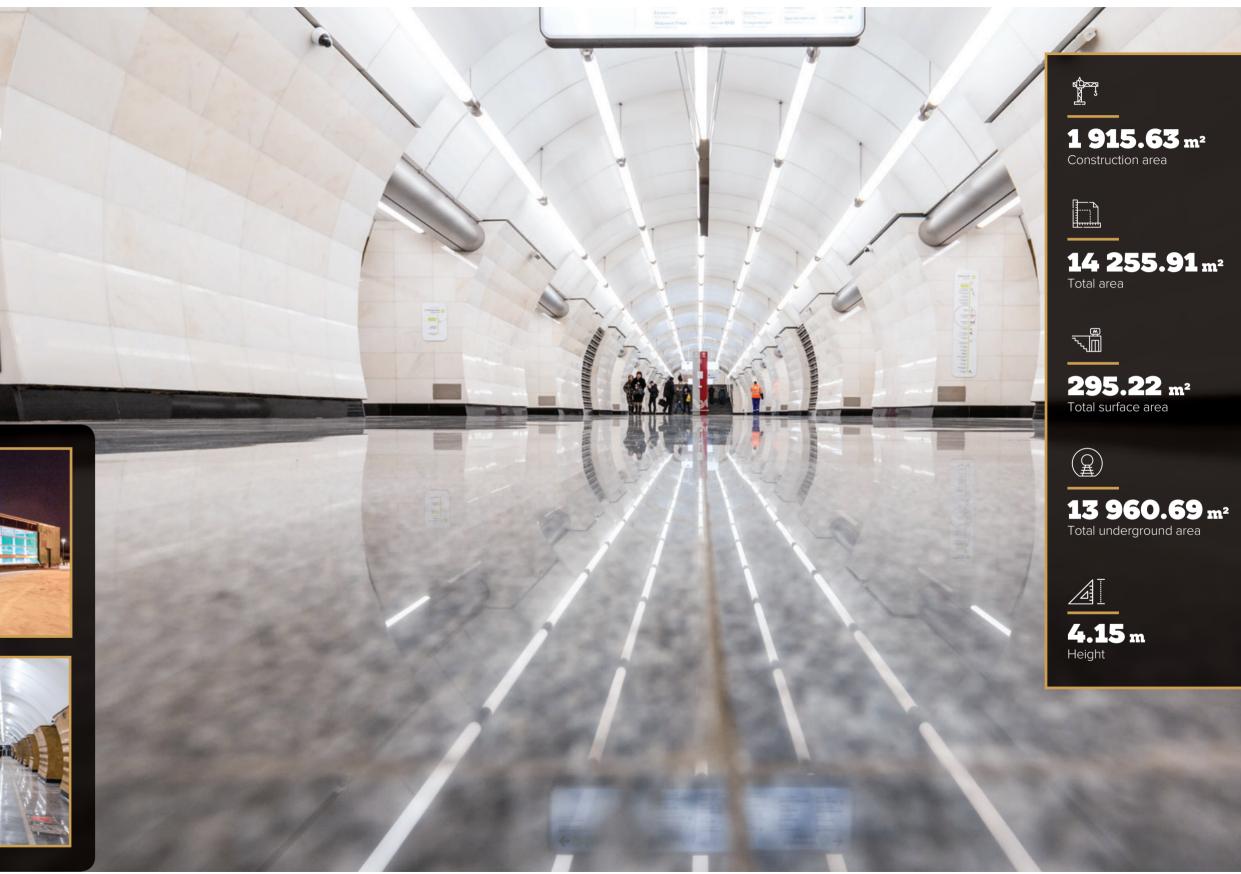
Address: Moscow, Timiryazevskiy district, along Locomotive passage at the cross point with the 3rd Nizhnelikhoborsky passage, next to the Moscow Central Circle platform and the railway platform to Savyolovskaya direction.

TYPE OF THE STATION

Deep, three vault station, pylon type with lining made of the cast iron segments. External diameter of the side tunnels is 8.5 m and the central tunnel is 9.5 m.







FINISHING

MOCKOBSKIND METERS BUILDER DA 200 X 20 M 20 CK 0 B CK WAR IN STREET STRE

NEHUHCLUU APOCATUS

a fait



Granite flooring – 385,3 m² Granite and marble (walls) $- 249 \text{ m}^2$ High finish of ceilings and walls -236 m^2 Counter ceiling (armstrong) – 82.4 m² Counter ceiling (aluminum lath) – 159 m² Counter ceiling (wavy metal panels) – 235.5 m² Granite (facade walls on subsystem) – 460 m²

RECONSTRUCTION OF THE NORTHERN CONCOURSE OF **LENINSKY PROSPECT** METRO STATION IN KALUZHSKO-**RIZHSKAYA METRO LINE**



567.85 m²

Construction area





4 358.15 m³ Construction volume of the

station concourse



215.8 m Construction area of the inclined tunnel



Address: Moscow, Gagarinsky district, between Vavilova street and Leninsky Prospect.

Within reconstruction of the northern concourse of Leninsky Prospect station all escalators had to be replaced and the communications renewed. The modern domestic made escalators which conformed to all transport safety and technical service requirements were installed.

The main client

Moscow department for transport and development of the road and transport infrastructure

Client Moskovsky Metropoliten

Designer Institut Inzhproekt

Contractor

Mosmetrostroy

Start of overhaul 2016

Opening date February, 25th 2018

FINISHING

Porcelain tiles and granite (flooring) – 744 m² Plaster, spackling paste, walls painting – 1666.81 m² Counter ceiling – 7<u>44 m²</u>

THE SECOND EXIT OF MEZHDUNARODNAYA METRO STATION,

FILYOVSKAYA LINE



BLU







CTODOWN



2 545 m² Total surface area



20.12 m Maximum height





Address: Moscow, Presnensky district, «Moskva siti», Moscow Internanional Business Centre. IQ-quarter.

The second underground concourse of the Mezhdunarodnaya station is built into the two-level underground area of the IQ-quarter of MIBC. The concourse plan was dependant on its placing in the existing structure of the terminal (ceiling and flooring, base plate, walls).

Architectural and artistic appearance of the concourse conforms to the whole conception of the station. Real granite and marble of white, grey and black colours were used as finishing materials.

The main client Moscow Construction Department

Client Mosinzhproyekt

Designer Metrogiprotrans

Contractor Mosmetrostroy

Start of work 2016

Opening date December, 30th 2017

FINISHING

Concrete base around the concourse – 354 m³ Granite (flooring and entrance section) -1300 m^2 Granite (plinth of the columns) $- 4 \text{ m}^2$ Granite slabs (walls and parapets) $-419m^2$ Ceramic panels (walls) – 226 m² $Fins - 131 m^2$ Roof – 1 575 m² Reflected ceiling – 840 m²

.

RECONSTRUCTION OF THE NORTHERN CONCOURSE OF PETROVSKO-RAZUMOVSKAYA

METRO STATION IN SERPUKHOVSKO-TIMIRYAZEVSKAYA LINE

ПЕТРОВСКО-РАЗУМОВСКАЯ





Total area



19 999.96 m³ Construction volume





Address: Moscow, Timiryazevsky district, Dmitrovskoye highway, near the Lokomotiv passage, next to the Petrovsko-Razumovskaya platform of the Oktyabrskaya railway.

In the terms of the project the roof covers, cornice, reflected ceiling, the windows in the box offices and the central part of the concourse, and the ventilation bars were replaced. Finishing was done both inside and outside of the concourse.

Marble, granite, stainless steel were used as finishing materials. Fireproof cables and break resistant glass were also used.

The main client Moscow Construction Department

Client, General Contractor Mosinzhproyekt

Designer Metrogiprotrans

Contractor Mosmetrostroy

Start of overhaul 2017

Opening date December, 30th 2017

ROOFED PEDESTRIAN BRIDGE

AS A PART OF SOLNECHNAYA TRANSFER HUB



1.22 hectares Land area

2 100 m² Total construction area



19 625 m³ Construction volume

001





Granite (flooring and stairs) -1500 m^2 Reflected ceiling (aluminum lath) -877 m^2 Reflected ceiling (Grigliato) -1132 m^2 Stained-glass windows -355 m^2 Stainless steel fencing -521 mPorcelain stoneware (flooring) -800 m^2 Porcelain stoneware (walls) -667 m^2 Aquapanel partitions -260 m^2 Drywall partitions -1400 m^2

"Bally of BREAT



Address: Moscow, Tretij Mikroraion Solnceva, Solnechnaya metro station, Kiyevskaya line of Moscow railway.

The structure is comprised of 3 parts:

- multistorey entrance area;
- central surface area a concourse with shops, a transit corridor and the ticket barrier equipment;
- pedestrian bridge over the railway lines.

An old open pedestrian bridge over the railway lines was replaced with the new roofed. A comfortable warm concourse for passengers waiting for their trains was built inside the building. New lighting systems, CCTV and air conditioning were installed. Arrival time of a train is shown on the electronic scoreboard over the ticket barrier leading to the platform. Any level can now be reached by an elevator.

The main client RZD

Client Tsentralnaya PPK

Designer MosgortransNIIproyekt (now GBU MosTransProyekt)

Contractor Mosmetrostroy

Start of work 2015

Opening date June, 29th 2017

FINISHING

Granite, marble (flooring and walls) $-25\ 760\ m^2$ Reflected ceilings $-3\ 847\ m^2$ Waterproofing umbrellas $-23\ 163\ m^2$ Ceramics (ventilation booths) $-1100\ m^2$

LYUBLINSKO-DMITROVSKAYA METRO LINE THE FIRST STAGE

One of the main events in construction activity of Mosmetrostroy in 2016 was opening of three new stations in Lyublinsko-Dmitrovskaya line, they are Butyrskaya station, Fonvizinskaya station and Petrovsko-Razumovskaya station.



12 600 m

were excavated with a conventional method during the whole period



41 837 m³ Volume of concrete (concourses, stairs, crosswalks)



Volume of the excavated ground is about





Construction of the first stage of the Lyublinsko-Dmitrovskaya line of the Moscow metro was completed at the depth of 60-65 m. The work was complicated by the geology of the area. The workers struggled with water saturated layers and quicksands.

Opening of the three new stations improved the access to the transport for people who live in the North and North-Eastern districts of Moscow.

The main client Moscow Construction Department

Client, General Contractor Mosinzhproyekt

Designer Metrogiprotrans

Contractor Mosmetrostroy

Line length 5.6 km

Number of stations 3

Start of work 2011

Opening date September, 16th 2016

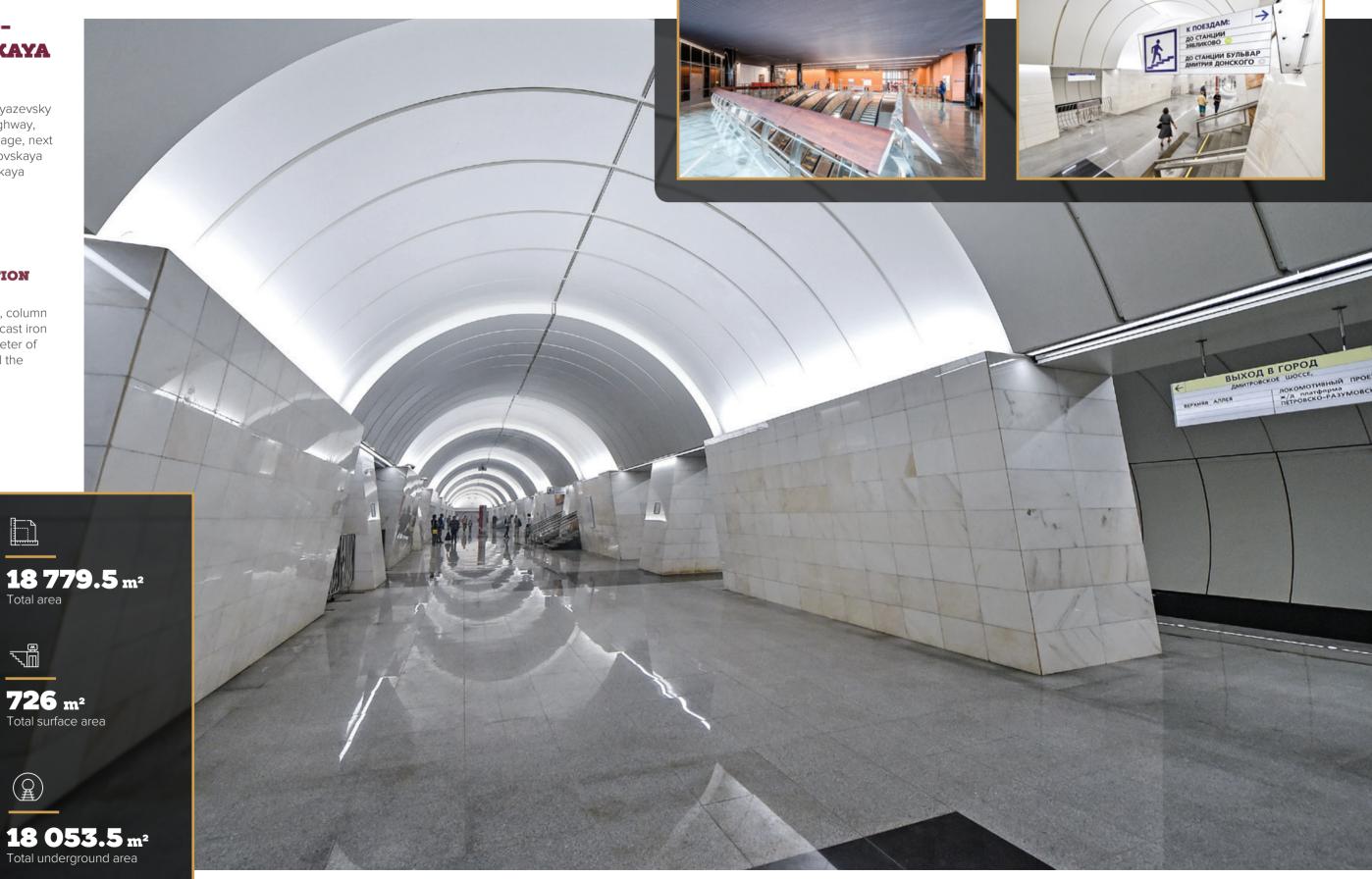
PETROVSKO-RAZUMOVSKAYA STATION

Address: Moscow, Timiryazevsky district, Dmitrovskoye highway, near the Lokomotiv passage, next to the Petrovsko-Razumovskaya platform of the Oktyabrskaya railway.

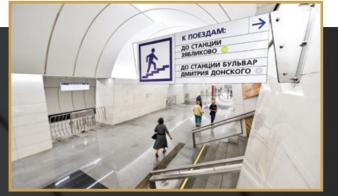
TYPE OF THE STATION

Deep, three vault station, column type with lining made of cast iron segments. External diameter of side tunnels is 8.5 m and the central tunnel is 9.5 m.

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MOSMETROSTROY



FONVIZINSKAYA STATION

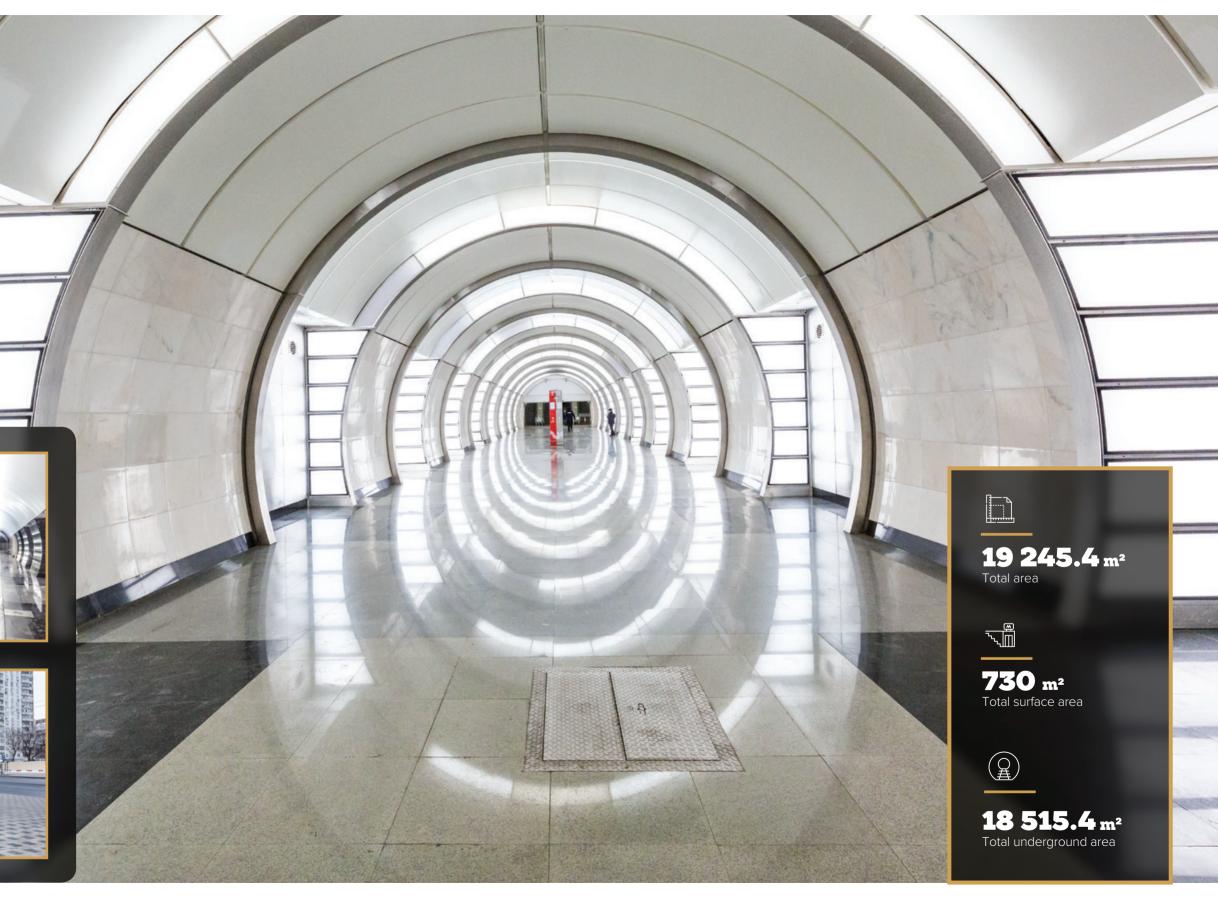
Address: Moscow, Butirsky district, Milashenkova street.

TYPE OF THE STATION

Deep, three vault station, column type with lining made of cast iron segments. External diameter of the side tunnels is 8.5 m and the central tunnel is 9.5 m.





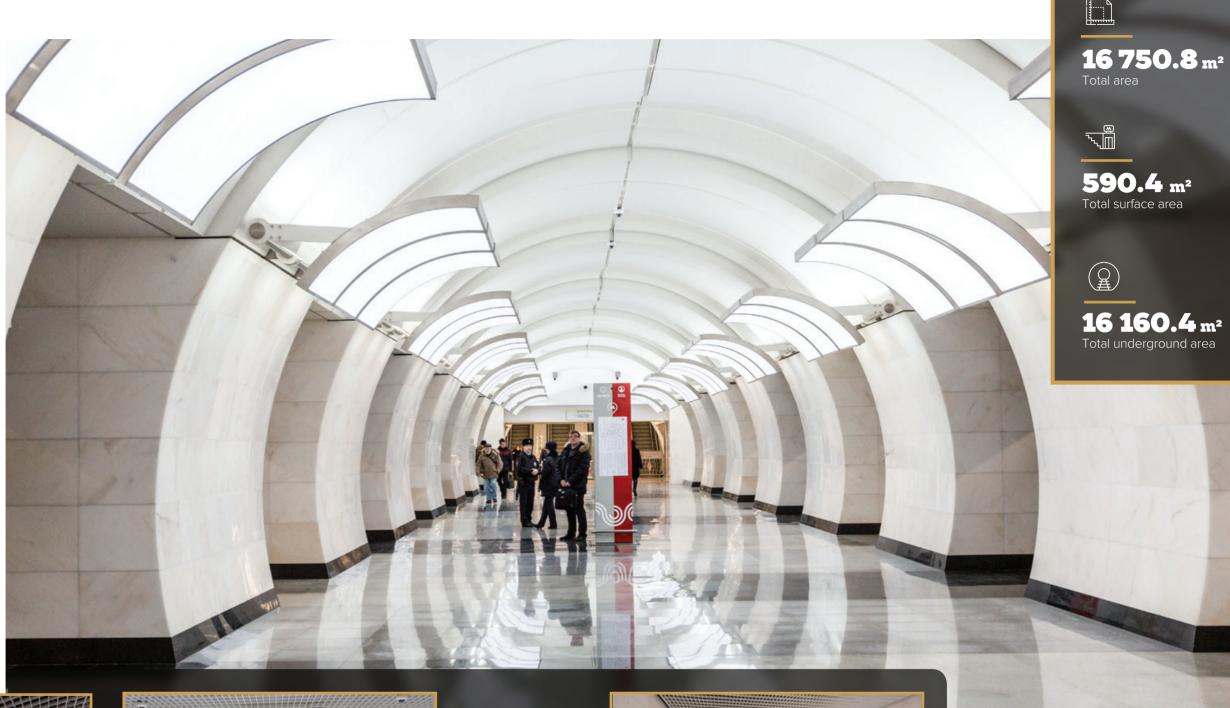


BUTYRSKAYA STATION

Address: Moscow, Butyrsky district, along Ogorodny passage, between Rustaveli street and Dobrolyubova passage.

TYPE OF THE STATION

Deep, three vault station of pylon type with lining made of cast iron segments. External diameter of the side tunnels is 8.5 m and the central tunnel is 9.5 m.





















PLOSHCHAD GAGARINA

TRANSPORT HUB AS A PART OF MOSCOW CENTRAL RING







12 000 m² Construction area





FINISHING





Address: Moscow, Gagarinsky district, Ploshchad Gagarina (Gagarin's square), between Leninsky prospekt and Vavilova street.

Ploshchad Gagarina transport hub is the only underground transport interchange in the new part of Moscow Central Ring. It includes the entrance rooms, ticket barrier halls, box offices and service area. The estimated passenger traffic is 50 thousand people per day.

This transport hub is to provide convenient underground pedestrian connection between Ploshchad Gagarina station in MCR and Leninsky Prospekt station in Kaluzhsko-Rizhskaya line of the subway as well as between the stops of the surface public transport.

The main client

Moscow department for transport and development of the road and transport infrastructure

Client RZD (DKRS)

Designer Mosgiprotrans

Contractor Mosmetrostroy

Start of work 2013

Opening date September, 10th 2016



FINISHING

규나규

 $\begin{array}{l} \mbox{Granite (flooring)} - 536\ m^2 \\ \mbox{Granite and marble (walls)} - 300\ m^2 \\ \mbox{Ceiling (lath)} - 610\ m^2 \\ \mbox{Painting of the ceiling in the inclined tunnel} - 600\ m^2 \\ \mbox{Stainless steel (doors and stain-glass windows)} - 237\ m^2 \\ \end{array}$

RECONSTRUCTION OF THE SOUTHERN CONCOURSE OF LENINSKY PROSPECT

METRO STATION IN KALUZHSKO-RIZHSKAYA LINE



582.7 m² Construction area



373.7 m² Total area of concourse



184.62 m² Area of the passage to Moscow Central Ring (including stairs)



Construction volume of the concourse



<u>_</u>

1 001.12 m³ Construction volume of the inclined tunnel







Address: Moscow, Gagarinsky district, between Vavilova street and Leninsky Prospect.

Specialists of Mosmetrostroy fully rebuilt the interior of the southern concourse of the Leninsky Prospekt station according to modern safety and comfort requirements for passengers. Engineering systems were replaced and the new navigation system was installed.

in terms of the project the station was integrated into the Ploshchad Gagarina transport hub.

The main client

Moscow department for transport and development of the road and transport infrastructure

Client Moskovsky Metropoliten

Designer Institut Inzhproekt

Contractor Mosmetrostroy

Start of overhaul 2016

Opening date September, 3rd 2016

The all the art

rP

PETT

SOKOLNICHESKAYA LINE

Connection between Yugo-Zapadnaya and Troparyovo stations

1330 m left tunnel

1 296 m right tunnel

Connection between Troparyovo and Rumyantsevo stations

2 112.6 m left tunnel

2103.8 m right tunnel

Connection between Salaryevo and Rumyantsevo stations

1416.8 m left tunnel

1416 m right tunnel

Troparyovo station 14 195 m³ diaphragm wall

154 512 m³ excavation and ground disposal

Rumvantsevo station 8 260 m³ diaphragm wall

137 420 m³ excavation and ground disposal

Salaryevo station 8 500 m³ diaphragm wall

141 650 m³ excavation and ground disposal

-



FTER

Winhthing

manning

The Sokolnicheskava line extension gave an extra chance to develop Novoya Moskva (The new Moscow) territories and to build the residential neighborhoods, business centres and multifunctional public areas which correspond to social, cultural, domestic and other needs of the residents

Rumyantsevo and Salaryevo became the first two-level stations of Moscow metro: there are box-office areas, technological and service spaces above the platforms.

The tunnels of the line were made with the tunnel boring machines, earth pressure balance and slurry type.

The main client

Moscow Construction Department

Client, General Contractor Mosinzhproyekt

Designer Institut Inzhproekt

Contractor

Mosmetrostroy

Line length 6.5 km

Number of stations

3

Start of work 2012

Opening dates

Troparyovo station – December, 8th 2014 Rumyantsevo station – January, 18th 2016 Salaryevo station – February, 15th 2016

SALARYEVO STATION

Address: Moscow, Moskovskiy settlement, Kiyevskoye highway.

TYPE OF THE STATION

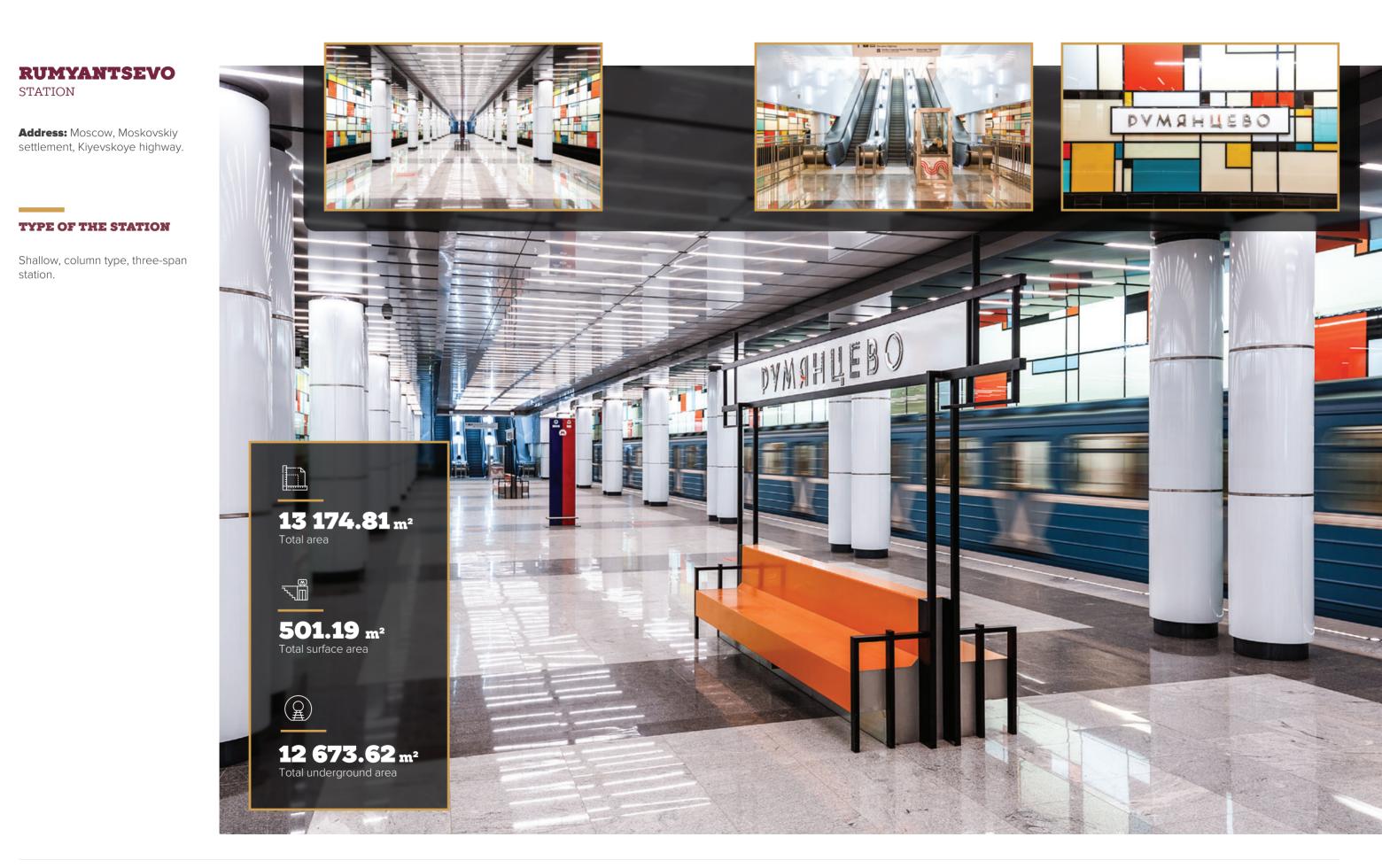
Shallow, column type, three-span station.









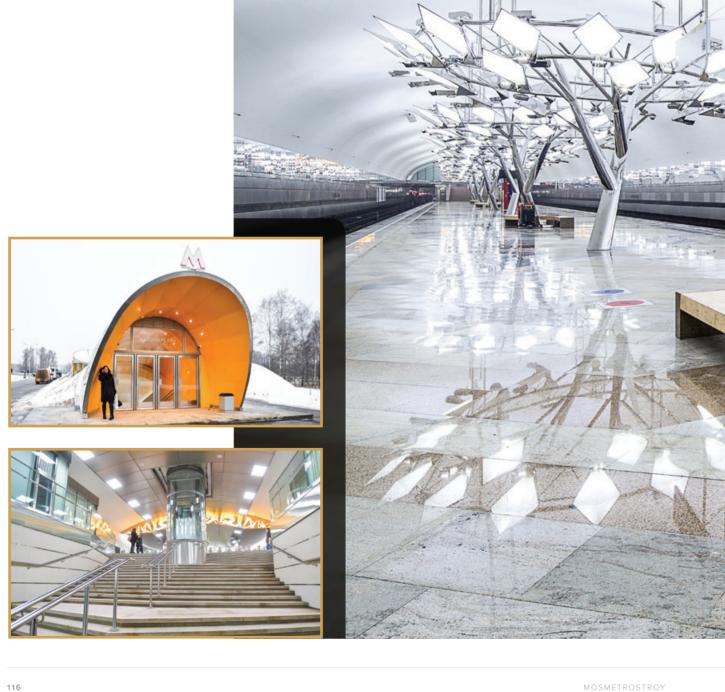


TROPARYOVO STATION

Address: Moscow, Troparyovo-Nikulino district, Leninsky prospect.

TYPE OF THE STATION

Shallow, one-span station.



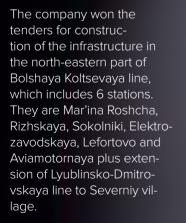
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STRATEGY **AND PERSPECTIVE** FOR DEVELOPMENT

Domestic market



Mosmetrostroy refurbished and updated the railway tunnel named after Stalin in the city of Vladivostok. The tunnel was built in 1935. The tunnel has a strategic status and is a historical and architectural landmark of the region. The project took prize as «The best completed project of 2019», which is arranged annually by the world Tunnel Association.

TOR. CTARINH

Since 2016 the company is participating in reconstruction of the running parts of Moscow metro. As of today they are Kakhovskaya, Varshavskaya and Kashirskaya stations of the Kakhovskaya line. In the future they will become a part of Bolshaya Koltsevaya line.

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The main strategic goal of Mosmetrostroy in the nearest future is to increase number of projects and extend scope of work for construction of the new stations and repair the existing lines of Moscow metro.

Additionally, in order to diversify its business activity we are consistently working on getting the large-scale infrastructure projects both in Russia and abroad.

One of the priority is to build the long-term partnership with RZD. As of today Mosmetrostroy has proved to be a reliable partner, which is proven by the concluded contracts in the far East of Russia and the Republic of Serbia.

Engineering study of some international projects in the countries the company is interested in is at different stages.

oped the reconstruction projects for the ski-jump in Vorobjovy Gori station and for construction of the cable way from the viewing platform to Louzhniki station. It is 700 meters long. It was put into operation on November, 26th 2019 and serves for three stations, Vorobjovy Gori, Novaya Liga and Louzhniki (bot-



International market Construction and putting into operation



Water supply tunnel under the Bosphorus strait, 6 m in diameter and the length is 3.4 km, within Melen project. The purpose of the tunnel is to provide population of Istanbul with fresh water from the Melen river. The tunnel was built by means of the tunnel boring machines Herrenknecht.



The railway tunnels with 10 m in diameter and 3.5 km long in a mountain range within the project of a speed railway line Tel Aviv - Jerusalem (Israel).

120

A consortium with a Chinese company, Hindustan Construction Co Ltd., is in charge of construction of a section of the third metro line in Mumbai (India). It comprises of four stations and the tunnels between them with total length 4049 m. Two tunnel boring machines are doing the work. The performance time under the contract is 54 months.

A.F. 111 A.

Two railway tunnels called «Tchortanovtsy» in the mountains of Serbia are built under the modernization program of the twin track railway Belgrad-Stara Pazova-Novi Sad-Subotitsa-the frontier. The length of the tunnels is 1090 m and 1150 m. The performance time is 1557 days. The contract is within a loan of the Russian Federation to the Republic of Serbia for development and repair of the railway links. RZD International, a subsidiary of RZD, is the operator of the loan and the general contractor of the project.

Repair of four railway tunnels in Vrbnitsa-Bar line, the Republic of Montenegro. Under the contract they will have to refurbish 986 meters of the tunnel lining.

SOCIAL ACTIVITY

Mosmetrostroy is a socially oriented company which pays much attention to the personal potential of its employees.

With support of the company management there are such initiative groups as council of Metrostroy veterans, council of young specialists, Pamyat Metrostroya search party and Afgan Metrostroya.

From the time Mosmetrostroy was established the territorial committee of trade union was founded.



All the company events are covered in a corporate newspaper, Metrostroyevets. Its first issue came out on August, 6th in 1932. 13000 issues have been published for 89 vears.



called KSUM.





From the day the company was established and as of now the company owns 6 dormitories. It is Annually, the company arrange the New Year celebrations for the employees children and the vets, drawing contest for children, family sport games a lot more things.



THE RECREATIONAL CAMP FOR CHILDREN

Mosmetrostroy owns the recreational camp for children. It occupies the territory of 34.21 hectares and consists of nine accommodation buildings made of bricks, hospital, canteen and the gym. It is located in a picturesque Balabanovo town, near the Istja river, Kalouga region. Such location provides clean air and silence which the urban kids really need.

The idea came to the management of Mosmetrostroy back in 1944. This is when the history full of events of a legendary camp started. They decided to build it in the territory of Pobeda (Engl. victory) farm and the camp was opened in June 1945. It was named Beryozki (Engl. the birch trees). The first campers lived in the wooden barracks and the military tents.

Gradually they improved the territory, built the proper buildings and arranged the sport sites. They had their own bakehouse which was famous all over the area. Since 1960 in between the summer seasons for children they allowed the family campers.

In 1970 the camp celebrated its 25 years anniversary and got the new name, Yuniy Metrostroyevets, which stands for «a young builder of metro». The same year they started a major reconstruction of the camp.

Since then the camp became available for the kids during the winter holidays. By 2005 there were eight two-storey brick buildings, canteen, medical ward, a summer club, a library, a computer hall, a cinema and an art center.

In 2011 the camp was closed. Four years later the company decided to revive it and carry out repair of the buildings and to improve its territory. In 2016 they installed a monument dedicated to 53 Heroes of the Soviet Union and later on they installed a fountain in the central square. Also they rebuilt the entrance and arranged it as a tunnel with the cast iron lining.

By the start of 2019 they recovered the farm, its warehouses, an aviary, and the stable. In July of the same year they arranged the Summer Competitions, where several generations of the metro builders participated. Many of them visited the camp yet as children.



the camp can accommodate during one summer shift







The recreational camp for the children whose parents work in the metro infrastructure resumed its work after the overhaul.

It is also available for those whose parents are not related to metro but willing to spend their holidays there.





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GENERAL DIRECTOR'S RECEPTION

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