INFRASTRUCTURE OF SERBIAN RAILWAYS JSC

NETWORK STATEMENT 2021

Adopted by the Shareholders of "Infrastructure of Serbian Railways" JSC

No: 5/2020-270-111 dated January 8, 2020

Effective as of Decembre 13, 2020

Applicable to 2020/2021 Timetable

На основу члана 20. став 6. Закона о железници ("Службени гласник РС", број 41/18) и члана 43. став 2. Закона о Влади ("Службени гласник РС", бр. 55/05, 71/05 – исправка, 101/07, 65/08, 16/11, 68/12 – УС, 72/12, 7/14 – УС, 44/14 и 30/18 – др. закон),

Влада доноси

РЕШЕЊЕ О ДАВАЊУ САГЛАСНОСТИ НА ВИСИНУ ЦЕНЕ ПРИСТУПА И ЦЕНЕ ПРИСТУПА ДЕЛУ ЈАВНЕ ЖЕЛЕЗНИЧКЕ ИНФРАСТРУКТУРЕ КОЈИ ПОВЕЗУЈЕ СА УСЛУЖНИМ ОБЈЕКТИМА

I

Даје се сагласност на Одлуку о висини цена приступа и цена приступа делу јавне железничке инфраструктуре који повезује са услужним објектима, коју је донела Скупштина Акционарског друштва за управљање јавном железничком инфраструктуром "Инфраструктура железнице Србије", Београд, на седници од 27. августа 2019. године.

Η

Ово решење објавити у "Службеном гласнику Републике Србије".

05 Број: 338-10276/2019

У Београду, 17. октобра 2019. године

ВЛАДА

Тачност преписа оверава

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ПРЕДСЕДНИК

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GLOSSARY

Public railway infrastructure

means the entire railway infrastructure which constitutes the network being managed by infrastructure manager, including railway lines and secondary tracks (industrial railway line and industry tracks) being connected to the network:

Infrastructure Manager

is a public enterprise or company responsible for construction, exploitation, maintenance and rehabilitation of railway infrastructure on network, as well as for participation in its development within general policy of development and financing of instrastructure;

Railway Undertaking

is a public enterprise or other legal entity, registered for the main activity of provision of freight/passengers transport services and to whom the license was issued, with an obligation to provide train traction or that only provide train traction; Railway undertaking is also an public enterprise or other legal entity that provide railway transport for its own purposes and to whom the license for transport for its own purposes was issued;

Transport License

is a document by which a relevant licensing authority confirms the capacity of public enterprise or other legal entity that is registered for provision of the activity of public transport of goods and/or passengers to provide railway transport services as a railway undertaking, which can be limited to the provision of certain types of services or the provision of railway transport for own purposes;

Applicant

means a railway undertaking or an international grouping of railway undertakings, or other natural persons or legal entities, such as competent authorities, consignors, forwarding agents or combined transport operators, with commercial interest of provision of public service or commercial interest for allocation of railway infrastructure capacity;

Ad hoc request

means a request for individual train paths submitted during the validity of established timetable;

Network

is network of railway lines, including connecting lines and secondary tracks, with elements of railway infrastructure, managed by the Infrastructure Manager; intended for railway transport of goods and/or passengers, as well as the transport for their own purposes, which can be performed by railway undertakings according to the principle of transparent and non-discriminatory access to the network;

Path

means the capacity of railway infrastructure necessary for transport of two trains between two places during a certain period;

Timetable

means a formal document of the public railway infrastructure manager defining the schedule of operation for passenger and freight trains as well as trains operating for own purposes on the public railway infrastructure of the



infrastructure manager;

Infrastructure capacity

means a possible number of train paths for timetabling on particular part of railway infrastructure over a given period of time;

Congested infrastructure

means a section of railway infrastructure for which infrastructure capacity demand cannot be completely satisfied during certain time periods, even after different infrastructure capacity requests for have been coordinated;

Path allocation

means allocation of public railway infrastructure by the infrastructure manager;

Access right

means the right of a railway undertaking to use the railway infrastructure;

Coordination

means a process whereby the infrastructure manager and applicants make an adjustment of individual requests for path allocation;

Safety Certificate

means an evidence that railway undertaking has established safety management system and that he has met all requirements set out in technical specifications of interoperability, national safety regulations and other relevant regulations in order to control risks and safe railway traffic operations on network;

Competent institution, Relevant authority (body)

means an authority entitled to adopt various decisions relating to particular fields;

Relevant Railway Authority means a body authorised to act regarding administrative issues in the railway sector of the Republic of Serbia (Directorate for Railways or the Ministry of Construction, Transportation and Infrastructure, as the case may be).

Service facilitiy Operator is entity responsible for managing one or more service facilities for providing one or more services to railway undertakings (basic, additional and/or accompanying), including managing of railway infrastructure which forms part of service facility.

Information about service facility

is a document containg detialed information necessary for access to a service facility and services (basic, additional and accompanying) with reference to performance of railway transport provided by operator in that service facility.



The abbreviations used in the Network Statement have the following meanings:

ATC Automatic Train Control

AGC European Agreement on Main International Railway Lines

AGTC European Agreement on Important International Combined Transport Lines and Related

Installations

EU European Union FTE Forum train Europe IM Infrastructure Manager

MCTI Ministry of Construction, Transportation and Infrastructure of the Republic of Serbia

MF Ministry of Finance of the Republic of Serbia

NS Network statement
DG Dangerous goods
OSS One stop shop

RID (2017) Regulations concerning the international carriage of dangerous goods by rail

RNE RailNetEurope (European Infrastructure Managers Association)

UIC International Union of Railways

DR Directorate for Railways – Regulatory Body in the Republic of Serbia

IZS "Infrastructure of Serbian Railways" JSC

EMU Electric multiple-unit set
DMU Diesel multiple-unit set

TOR Top of rail

RS Law on Transport of Dangerous Goods ("Official Gazette of the RS" no. 106/2016,

LTDG 83/2018, 95/2018 (other law), 10/2019 (other law))



1. GENERAL INFORMATION

1.1 Introduction

"Infrastructure of Serbian Railways" JSC (hereinafter IZS) is a joint stock company for the management of public railway infrastructure (hereinafter: railway infrastructure), founded by the Republic of Serbia.

Railway infrastructure is a good intended for use by the general public, owned by the Republic of Serbia that can be used by railway undertakings, on equal terms, in accordance with the Law on Railways.

Management of railway infrastructure is an activity of general interest.

Railway infrastructure includes permanent way and substructure, tunnels, bridges and other track structures, station tracks, level crossings including devices for securing of level crossings; safety, signaling and telecommunication installations on open lines, in stations and marshalling yards, including the plants for generating, transforming and distribution of electric energy for signaling and telecommunications; buildings for such installations or plants; track brakes; plants for transformation and transmission of electric energy for train traction: 110 kV two-phase transmission lines, sub-stations except for 110 kV distribution switchgear in this substation, supply cables between substations and contact wire, catenary and girders, third rail with beams, lightning installation for traffic and safety needs, service points' buildings and other facilities on trackside land used for regulation of railway traffic including the portion of the equipment for calculation and charging of transport charges and buildings for railway infrastructure maintenance, accesses for passenger and goods, comprising road access and access to passengers for arrival and departure of pedestrians, track-side land and the airspace above the track, 12 m high, i.e. 14m high at over 220kV overhead power lines, measured from top of rail.

The Network Statement is a document that contains all information in accordance with the Law on Railways of the Republic of Serbia ("Official Gazette of the RS" No. 41/18), and the Rules on Content and Form of Network Statement ("Official Gazette of the RS" No. 97/2013).

The document is compliant to all the norms set forth under the guidelines provided by the association RailNetEurope (hereinafter RNE) and shall be used as informative material for the interested railway undertakings. Moreover, the Network Statement has been harmonized with relevant EU Directives.

Network Statement provides general information on railway network, terms and conditions for access to railway infrastructure, principles and criteria for allocation of capacities, principles for charge calculation and their amounts, procedures for dispute resolution and other important details for usage of services provided to railway undertakings.

1.1.1. Background Information on Infrastructure Manager

Joint stock company for public railway infrastructure management "Infrastructure of Serbian Railways", Belgrade (hereinafter: Company) founded with the Decision on founding of Joint stock company for public railway infrastructure management ("Official Gazette of the RS", no.60/15 and 73/15) and registered in the registry of Serbian Business Registers Agency, under the number BD 69692/2015 from August 10, 2015.

The founder of the Company is the Republic of Serbia, as the sole stakeholder of the Company, of behalf of which the founder's right is enforced by the Government of the Republic of Serbia, Belgrade, Nemanjina 11 company number 07020171. The Company is under the jurisdiction of the Ministry of construction, transport and infrastructure.

Business company name: Joint stock company for public railway infrastructure management "Infrastructure of Serbian Railways", Belgrade

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Short Company's name: "Infrastructure of Serbian Railways" JSC



Company Headquarters is in Belgrade, and the address of company's headquarters is 6 Nemanjina, Belgrade.

The main activity of company is "Service activities in land transport", activity code is 5221

Company Reg. No is 21127094, TIN 109108420.

Company Business Accounts are 205-222959-26 and 160-438771-53.

The main activity of the Company include: Service activities in land transport. The activity includes the management of public railway infrastructure in part of maintenance of public railway infrastructure, organization and control of railway traffic, the provision of access and use of public railway infrastructure to all interested railway undertakings, as well as to legal entities and natural persons performing transport for their own purposes, and protection of public railway infrastructure. The company performs activities on general interest in accordance with the law. The company performs activities and services in internal and foreign trade in accordance with the law.

Responsible persons: Acting General Manager PhD Nebojša Šurlan Tel.: +381 11 3618 330

kabinet.infrastruktura@srbrail.rs

1.1.2. Organisational Chart of Infrastructure Manager

Organizational chart for Joint Stock Company for public railway infrastructure management "Infrastructure of Serbian Railway ", Belgrade is based on Rulebook on organization and systematization of operations of Joint stock company for public railway infrastructure management "Infrastructure of Serbian Railways", Belgrade.

Joint stock company for public railway infrastructure management "Infrastructure of Serbian Railways", Belgrade, (hereinafter Company), in order to perfom activities of management of public railway infrastructure is organized according group of operations, as follow:

- organization and control of railway traffic,
- maintenance of railway infrastructure,
- investment and economic affairs.
- human resources and common affairs and
- operations related to the General Manager's Office.

Company operation are being performed through its departments, centers, and sections, technical-technological departments, stations and operational sections and other lower organizational forms.

The management of public railway infrastructure includes the maintenance of public railway infrastructure, organization and control of railway traffic, the provison and access and the use of public railway infrastructure to all interested railway undetakings, as well as legal and natural persons performing transport for their own purposes and protection of public railway infrastructure, as well as performing the function of employer on reconstruction of public railway infrastructure.

The following operations are performed in the Company- traffic, civil engineering and electrotecnical operations, development and investment operations, projects management and common affairs: finance, plan and analyses, reconstruction and cooperation with international financial institutions, accounting, public procurements and central warehouses operations, human resources management, safety and health at work, operations related to property and inventory, operations of implementation and development of information technologies, internal safety, international affairs and ethic's operations. Beside that in order to achieve business, professional and administrative functions operations which are organizationally related to the General Manager's Office are also performed.



Operations referred to in the previous paragraph, are performed within:

- 1. Traffic department,
- 2. Railway infrastructure access department,
- 3. Centre for auxiliary train operations,
- 4. Centre for infrastructure technical monitoring
- 5. Civil engineering department,
- 6. Electrical engineering department,
- 7. Finance department,
- 8. Accounting department,
- 9. Centre for Plan, Analysis and Restructuring
- 10. Procurement and central warehouses department,
- 11. Development and Investments department,
- 12. Centre for Management of the Project Belgrade Subotica State Border High Speed Railway

Line,

- 13. Human resources and general affairs department,
- 14. IT department,
- 15. Centre for security,
- 16. Real estate department,
- 17. Inventory department,
- 18. Centre for international affairs,
- 19. Ethic's office,
- 20. Company's Management Secretariat,
- 21. Legal department,
- 22. Centre for internal audit,
- 23. Centre for internal control
- 24. Centre for Security Management System
- 25. Media Centre

The Organization chart of "Infrastructure of Serbian Railways" JSC is set forth in Annex 1.

1.1.3. Contact details

"Infrastructure of Serbian Railways" JSC contact details are the following:

Acting General Manager PhD Nebojša Šurlan Tel.: +381 11 3618 330

kabinet.infrastruktura@srbrail.rs

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11000 Belgrade

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Railway infrastructure access department

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Civil engineering department

Nemanjina 6



11000 Belgrade

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Electrical engineering department Nemanjina 6 11000 Belgrade

Tel.: +381 11 3618 241 Fax: +381 11 3618 130 etp@infrazs.rs

Centre for auxiliary train operations Nemanjina 6 11000 Belgrade

Tel.: +381 11 3620 899 Fax: +381 11 3620 899 direktor.tkp@infrazs.rs

1.2 Objective of the Network Statement

The objective of Network Statement is provision of the basic information of unique source, which is useful for the users of services provided to railway undertakings on the railway infrastructure managed by IŽS.

Network Statement is a document which in detail stipulates general rules, deadlines, procedures and criteria related to manner of calculation of charges and allocation of infrastructure capacities, including other relevant information necessary for submitting the request for infrastructure capacity allocation.

The Network Statement will be published on the web site of "Infrastructure of Serbian Railways" JSC www.infrazs.rs and decision on its adoption will be published in the "Official Journal of ZS".

1.3 Legal Framework

Operation of infrastructure and traffic on the network managed by "Infrastructure of Serbian Railways" JSC is regulated by:

- regulations of the Republic of Serbia,
- acts of Infrastructure Manager "Infrastructure of Serbian Railways" JSC,
- acts and technological procedures of the railway undertakings falling within the scope indicated in the above legal regulation.

1.3.1 Regulations of the Republic of Serbia

Regulations of the Republic of Serbia of particular importance to this Network Statement include the following documents:

- Law on Railways ("Official Gazette of the RS", no. 41/18);
- Law on interoperability of railway system ("Official Gazette of the RS", no. 41/18);
- Law on safety in railway traffic ("Official Gazette of the RS", no. 41/18")
- Rules on the Content and Form of Network Statement ("Official Gazette of the RS", no. 97/13);
- Law on Categorization of Railway Lines that belong to Public Railway Infrastructure ("Official Gazette of the RS", No. 92/20);
- Rules on Railway Infrastructure Elements ("Official Gazette of the RS", no.30/19);
- Rules on Timetable ("Official Gazette of the RS", No. 58/19);



- Methodology for Valuation of the Elements for Determining the Level of Charge for the Use of Railway Infrastructure ("Official Gazette of the RS", no. 122/14);
- Rules on the Time Schedule for Railway Infrastructure Capacity Allocation ("Official Gazette of the RS", no. 140/14);
- Law on Railway Transport Agreements ("Official Gazette of the RS", no. 38/15);
- Rules on the Manner of Transport and Mandatory Operational Monitoring of Dangerous Goods Carried by Rail, as well as on the Obligations of the Participants in the Transport of Dangerous Goods by Rail and Emergencies ("Official Gazette of the RS", no. 81/15);
- Rules on training programmed and method of knowledge checking of employees and of participants of dangerous goods transport in the railway transport, as well the manner in which the documentation is processed and their trading ("Official Gazette of the RS", no. 81/15);
- Law on Transport of Dangerous Goods, passed by the National Assembly of the Republic of Serbia ("Official Gazette of the RS",no. 104/2016),
- Rules on elements of the contract on the use of railway infrastructure ("Official Gazette of the RS", no. 8/2019);
- Rules on Special Loads Transport ("Official Gazette of the RS", no. 74/19);
- Law on the Manner of Conclusion and Content of Framework Agreements for Allocation of Railway Infrastructure Capacity ("Official Gazette of the RS" no. 74/19).

1.3.2 International Regulations

When using the allocated train path, the railway undertaking must abide by all legal norms contained in the sources of international law, as well as in national laws and bylaws.

1.3.3 Acts of the Infrastructure Manager

Internal regulations (acts) and technological procedures of relevance for the present document are listed in the Annex 2.

1.4 Legal Status

1.4.1 General conditions

Network Statement is based on the legal framework defined in section 1.3. In case of ambiguity or legal proceedings, the relevant provisions of legal regulations of the Republic of Serbia will apply.

1.4.2 Liability

The present Network Statement has been developed on the basis of the information available at the moment of drafting thereof. IŽS is liable for accuracy of the information given in present Network Statement. All regulations and technical documentation which become effective upon publishing this Network Statement shall apply and shall be taken into consideration on the ocassion of construing this Network Statement.

IŽS is not liable for the accuracy of data published herein, which are submitted by the service facility operators.

1.4.3 Appeals Procedure

Appeals procedure in respect of the Network Statement, and to other acts of the IM relating to the path allocation procedure and use of railway infrastructure, is regulated by the Law on Railways.



The function of the regulatory body for the railway sector is performed by the Directorate for Railways (hereinafter: Directorate) as a separate organization, which runs the railway-specific state administration affairs as determined by the Law on Railways and the law governing the railway safety and interoperability.

The scope of the Directorate for Railways has been defined in Articles 118-129 of the Law on Railways ("Official Gazette of the RS" no. 41/2018) and by the provisions of the Law on Safety of Railway Transport ("Official Gazette of the RS" no.41/2018).

Article 120 of the Law on Railways provides that the Directorate is in charge of the following:

- activities for regulation of railway services market;
- licensing of railway undertakings;
- passenger rights;
- safety in railway traffic and interoperability of railway systems;
- cableway;
- realization of international cooperation within its competence;
- performs other tasks in terms of this law and other laws regulating the area of safety in railway transport, interoperability of railway systems and cableways for transport.

The applicant for train path allocation may lodge a complaint with the Directorate for Railways against the decision by the infrastructure manager to reject his application for path allocation or against the established conditions of supply of infrastructure capacity, and when not satisfied with the train path allocation procedure and its outcome, subject to payment of the fee in the amount of administrative fees charged for the appeals to the authority.

As a regulatory body, the Directorate deliberates on the complaints lodged by applicants for train path allocation, especially taking into account possible unfair treatment or discrimination by the infrastructure manager or railway undertakings, in connection with:

- (1) Network statement,
- (2) the criteria set in the Network Statement,
- (3) the train path allocation procedure and its outcome,
- (4) the method for determining the charge for the use of train path;
- (5) the level or structure of charges for the use of train path which he is or may be obliged to pay,
- (6) information about facilities;
- (7) the application of provisions of article 13 of the Law on Railways and particularly of access and charges

The decision of the Directorate is final and appeal against it may be lodged with the Administrative Court within 30 days of its receipt.

1.5 Structure of Network Statement

The Network Statement has been drawn up pursuant to provisions of the Rules on the content and form of the network statement ("Official Gazette of the RS" No. 97/2013), and in accordance with the general structure for network statements of the European Railway Association (RailNetEurope association), by which the most of infrastructure managers in Europe are being governed during the preparation of network statement.

The Network Statement makes information available to prospective and existing railway undertakings and is in accordance with the harmonized format of other infrastructure managers' network statements. General structure of Network Statement is reviewed on an annual basis and the latest version is available on the RNE's web-site. The objective of general structure is that all applicants and interested parties may find the same information at the same place in the Network Statement.



Table No 1. Network Statement Structure

No	Chapter	Description
1.	General provisions	contains the objective of publishing the Network Statement, legal provisions which govern railway infrastructure and transport operations on the railway infrastructure and contacts
2.	Conditions for access and use of railway infrastructure	gives specification of conditions, which will be met by the railway undertaking, prior to it gains the track access
3.	Overview of traffic- technical features of railway infrastructure which is available and limited in use	contains the description of the network managed by the "Infrastructure of Serbian Railways" JSC
4.	Principles, priorities and criteria for infrastructure capacities allocation	gives principles and criteria for infrastructure capacities allocation as well as distribution conditions and infrormation on procedures for dispute resolution
5.	Types of services	gives specification of services provided by "Infrastructure of Serbian Railways" JSC and other service facility operators
6.	Charges	gives charge calculation principles and amounts, charge calculation methods for the use of railway infrastructure as well as for the other services provided on the network "Infrastructure of Serbian Railways" JSC

1.6 Effectiveness of and Amendments to Network Statement

1.6.1 Validity Period of Network Statement

This Network Statement shall be valid during the timetable validity period, from December 13, 2020 to December 11, 2021.

The Network Statement shall be published not later than 4 months prior to the commencement of deadline for submission of applications for path allocation and shall remain valid during the entire timetable validity period.

1.6.2 Updating Process

The Network Statement will be updated in case of change of important pieces of information published in the Network Statement. Any amendment to the Network Statement will be published separately in the "Official Gazette of Serbian Railways", whereas the updated Network Statement (amended) will be published on the "Infrastructure of Serbian Railways" JSC website.

1.7 Publishing, Distribution and Availability of the Network Statement

The Network Statement will be published on the "Infrastructure of Serbian Railways" JSC website (www.infrazs.rs), both in Serbian and English languages.

If so requested by a railway undertaking, "Infrastructure of Serbian Railways" JSC may provide the Network Statement or a part of it free of charge in electronic form.

1.8 Contacts

Contacts relevant for information contained in the Network Statement:

"Infrastructure of Serbian railways" JSC Railway infrastructure access department 6 Nemanjina St.



11000 Belgrade Serbia

Tel.: +381 11 3618 214 Fax: +381 11 3616 814 sektor.pzi@srbrail.rs

1.9 Rail Freight Corridors

Pan-European Corridor X stretching from Salzburg in Austria to Thessaloniki in Greece goes through the infrastructure network of "Infrastructure of Serbian Railways" JSC (Appendix 3.1.). On the territory of the Republic of Serbia, on the network of "Infrastructure of Serbian Railways" JSC, Corridor X includes the following railway lines from Sid to Presevo:

- Belgrade Sid State border,
- Belgrade Mladenovac Nis,
- (Belgrade) Rakovica Jajinci Mala Krsna Velika Plana,
- Nis Presevo State border.

The following branches connect to the primary route of the Corridor:

- Xb, (Budapest) Novi Sad Belgrade (the railway line (Belgrade) Stara Pazova Subotica), and
- Xc, Nis Dimitrovgrad (Sofia Istanbul) (the railway line Nis Dimitrovgrad State border.

"Infrastructure of Serbian Railways" JSC in cooperation with Ministry of transport, construction and infrastructure participates in the initiative for forming and inclusion of new RFC 10 Alpine –West Balkan into the network of railway corridors in accordance with the Regulation 913/2010/EU and Law on the Manner of of cooperation in establishing and organizing international freight corridors for the competitive transport of goods and laying down rules for the selection, organization, management and indication of investment in freight corridors ("Official Gazette of the RS" no. 63/19).

1.10 RailNetEurope

RailNetEurope association (hereinafter RNE) was established in January 2004 by virtue of an agreement between 12 Infrastructure Managers from the entire Europe, and their number is constantly rising.

Through its members, RNE is operates over 230,000 km long railway lines, including the important ferry lines, and cooperates with more than 120 railway undertakings in international traffic and with more than 300 railway undertakings that, for the time being, operate only in the domestic traffic of the members.

The main efforts are put towards enhancing the access conditions and performance of international railway transport, particularly with respect to operability. To achieve this, RNE is focused on the overall process of international transport operations. It starts with harmonization of mid-term and long-term planning of particular members, joint marketing and sales approach, appropriate planning and operation, and ends with provision of services after transport has been performed, such as monitoring, control and assessment of performed transport.

One of the first steps towards progressive harmonization was creation of a structure model for the preparation of Network Statement, applied by all RNE members. Since 2005, RNE has taken over the full responsibility for preparation of the international Timetable and for the support of its activities; it operates with information systems: collection of charges CIS (Charging Information System), for coordination of paths PCS (Path Coordination System), information about trains TIS (Train Information System).

One of the most important RNE steps was creation of an international network of One Stop Shop offices.

The list of all RNE members and further information on this association may be found at www.railneteurope.com.



"Infrastructure of Serbian Railways" JSC is a full member of the association from April 21, 2016.

1.10.1 One Stop Shop - OSS

Infrastructure Managers have opened national One Stop Shop (OSS) offices that jointly make up a network of contact points for the users within RNE. As regards the international path allocation applications, the users only need to contact one of these OSSs, who will initiate the entire process of international path allocation.

In close cooperation with other IMs, the contacted OSS will:

- offer support and information to undertakings on the entire range of Infrastructure Managers' products and services along the whole route;
- provide all information on the conditions for access to the infrastructure of any Infrastructure Manager within RNE;
- process the applications for international path allocation within RNE;
- make sure that all the applications for the next year's Timetable are timely taken into account during preparation of the annual Timetable;
- provide offers for railway paths on the entire route in international traffic.

In accordance with its motto "one face to the customer", OSS provides professional and efficient assistance via all border crossings, underpinned by transparent procedures based on trust and non-discrimination. The list of contacts by member countries is available at www.railneteurope.com.

"Infrastructure of Serbian Railways" JSC as a RNE member, conducts intensive activities on defining the procedures, so as to implement OSS in the near future in the railway sector of the Republic of Serbia.

1.10.2 RNE tools

Since 2005, RNE has taken over the full responsibility for preparation of the international timetable and the support to its activities; it operates with information systems: for the coordination of PCS (Path Coordination System), for CIS (Charging Information System) and for the TIS (Train Information System).

PCS

PCS (Path CoordinationSystem) – is an international path request coordination system for path applicants i.e. railway undertakings, infrastructure managers and allocation bodies. This web-based application optimises international path coordination by ensuring that path requests and offers are harmonised by all involved parties. Input for international path requests needs to be placed only once into one system – either into the domestic application or directly into the PCS. More information on: http://pcs.RNE.eu/.

CIS

CIS (Charging InformationSystem) — is an infrastructure charging information system for railway undertakings, infrastructure managers and allocation bodies. This web-based application provides fast information on charges related to the use of the European rail infrastructure and estimates the charge for the use of international train paths within minutes. This is an umbrella application for various national rail infrastructure charging systems. More information on: http://cis.RNE.eu/.

TIS

TIS (Train Information System) – is the web-based application which manages the operation of international trains by delivering information on movements of international passenger and freight trains in real time. These data are obtained directly from the system. More information on: http://tis.RNE.eu/.



2. CONDITIONS FOR ACCESS TO AND USE OF RAILWAY INFRASTRUCTURE

2.1 Introduction

This chapter of the Network Statement describes the conditions associated with access to the railway infrastructure managed by the IZS. These conditions also apply to the part of freight corridors passing through the railway infrastructure managed by the IZS.

2.2 General access requirements

A railway undertaking can provide transport services on IZS railway infrastructure based on:

- valid license for carriage in railway transport over the infrastructure, issued by Directorate for Railways (hereinafter: DR),
- valid certificate on safety for carriage in railway transport,
- allocated capacity path and contract on provision of access to and use of public railway infrastructure concluded with the infrastructure manager.

Requirements for the submission of application for license, safety certificate and thereof contents are stipulated in the Law on Railways of the RS and the Rules on the requirements for issuance of and the content of certificate on safety for carriage in railway transport.

2.2.1 Requirements for the submission of requests for train path allocation

Request for train path allocation can be submitted by a railway undertaking or an international group of railway undertakings or other persons or legal entities, such as competent authorities, consignors and forwarding agents and operators in combined transport, having interest in provision of public service or having commercial interest in the allocation of railway infrastructure capacity.

Where a train path is allocated to an applicant other than a railway undertaking, the contract on the use of railway infrastructure shall be concluded between the infrastructure manager and the railway undertaking hired by such applicant.

If a request has been submitted after a specified deadline, train path in accordance with remaining capacities will be offered to the applicant, and if there are no capacity constraints, a new path will be subsequently created.

2.2.2 Entities permitted to provide railway transport services

Services of carriage in railway transport may be provided by a company, other legal entity or entrepreneur registered for provision of public transport services or transport for own purposes, incorporated in the Republic of Serbia, subject to the submission of evidence of fulfilment of the conditions related to good reputation, financial capability, and competence, and the cover for civil liability.

The license for carriage in railway transport and the certificate on safety is issued by DR or a competent authority of another country, based on reciprocity, with which country Serbia has signed an intergovernmental agreement on mutual recognition of certification.

Transport on railway infrastructure may be performed by railway undertakings meeting the requiremements referred to in paragraph 1 hereof, who signed the Contract for use of public railway infrastructure. The Contract for use of public railway infrastructure regulates the mutual rights and obligations between the infrastructure manager and railway undertakings and they are concluded in line with article 19 of the Law on Railways.



2.2.3 Transport License

Directorate for railways issue transport license: for transport of goods/passengers and for transport for own purposes.

Transport License is issued to applicant, company, other legal entity whose main registered activity is for provision of railway transport of good and/or passengers, or to a company or other legal entity who performs or will perform transport for own purposes, incorporated in the Republic of Serbia, subject to the submission of evidence of fulfilment of the conditions related to:

- a) good reputation,
- b) financial capability,
- c) proficiency and
- d) cover for civil liability in line with the Law on Railways.

Details related to licensing of railway undertakings are set from article 81.to article 85. of the Law on Railways.

Contact of competent institution for issuance of license is:

Directorate for Railways 6 Nemanina St., 11000 Belgrade The Republic of Serbia Manager' soffice tel. (011) 361 68 66 fax (011) 361 83 46 e-mail: administration@raildir.gov.rs

web page: www.raildir.gov.rs

2.2.4 Safety Certificates

The railway undertaking must have safety certificate for transport to be allowed to access infrastructure. The type and scope of operations of railway undertaking related to certificate are specified in the safety certificate.

The safety certificate may include the entire network or certain part thereof.

Safety certificate is consisting of:

- 1) part A confirming the acceptance of railway security management system of railway undertaking;
- 2) part B confirming the acceptance of provisions adopted by railway undertaking in order to meet the specific requirement set for transport safety on appropriate network; these requirement may include the application of technical specification, the national safety regulation and internal regulation of railway undertaking, the acceptance of employee's certificates and permissions for usage of rolling stock used by that railway undertaking.

Directorate for Railways is responsible for issuance of safety certificate for transport in set form and in the form of decision. The decision to issue or to refuse to issue safety certificate for transport is ultimately in the administrative procedure and a dispute can be brought against it at Administrative Court.

The validity period of the safety certificate for transport is five years and can be renewed at the request of the holder.

Directorate for Railways determine in more detail forms of safety certificate for transport, numbering of forms of safety certificate for transport in line with European identitification number, the application form



for issuance of safety certificate for transport and instructions for its completion, as well as necessary documentation enclosed with the request for issuance of safety certificate for transport.

Provisions regarding safety certificate for transport are set in Law on Railway Transport Safety.

Contact of competent institution for issuing safety certificate is:

Directorate for Railways 6 Nemanjina St., 11000 Belgrade The Republic of Serbian Manager's office tel. (011) 361 68 66 fax (011) 361 83 46

e-mail: administration@raildir.gov.rs

web page: www.raildir.gov.rs

2.2.5 Cover for Civil Liability (Insurance)

One of the conditions for issuing a transport license is the fulfillment of the requirements related to civil liability coverage (Insurance).

The requirement relating to civil liability coverage for a company or other legal entity that is registered for the public transport of goods and / or passengers, or performs or will carry out transport for its own purposes, is fulfilled if it is adequately insured or has adequate guarantees under market conditions for coverage, in accordance with legal requirements and confirmed international treaties, for their liability in the event of an accident.

Civil liability coverage may not be required to take effect before the railway undertaking starts operating the service.

2.3 General Terms and Conditions of Business

2.3.1 Contract for Use of Public Railway Infrastructure

The Law on Railway of the Republic of Serbia stipulates the obligation of concluding a contract on the use of infrastructure that allows railway undertakings to use railway infrastructure. Contracts for use of public railway infrastructure regulate in more detail the mutual rights and obligations of infrastructure managers and railway undertakings related to guaranteeing the technical and other conditions for safe transport operation, the application of regulations governing the transport of dangerous goods, as well as payment of access charges and charges of services. Contracts for use of public railway infrastructure are concluded under non-discriminatory and transparent conditions.

Contracts on use of infrastructure are concluded no later than 2 (two) months prior new timetable enter into force or immediately after the allocation of ad hoc train path.

If during the validity period of Contract for use of public railway infrastructure, the railway undertaking through an authorized person submit ad hoc request in approved way for allocation of train path, it is considered that addendum of that contract is concluded at the moment of allocation of requested train path by infrastructure manager.

For other services (basic, additional and accompanying) provided by infrastructure manager special contracts are concluded.



2.3.2 Framework Agreement

The Infrastructure Manager and an applicant may, by way of exception, draw up a framework agreement on the use of capacity on the relevant railway infrastructure for a period longer than the period of validity of the timetable.

The Framework Agreement between the infrastructure manager and the applicant shall contain the characteristics of the infrastructure capacity for which the applicant applied and which he was offered for a time period exceeding the period of validity of one timetable.

Law on the Manner of Conclusion and Content of Framework Agreements for Allocation of Railway Infrastructure Capacity lays down the procedures, content and criteria relating to the framework agreements for the allocation of railway infrastructure capacity, as well as the obligations of the infrastructure manager regarding information regarding the framework capacity.

At present, the infrastructure manager does not offer the possibility of concluding a framework agreement with the applicant. However, it intensively conducts the activities aimed at defining the procedures so as to have this option open in the near future.

2.4 Operating Rules

The transport operation on the railway infrastructure shall be such manner to ensure the protection of life, property and environment. The railway undertaking operating on the railway infrastructure will be obligated to comply with the regulations and provisions applicable to transport operations on the particular railway infrastructure.

The list of applicable regulations and instructions related to operating rules is given in a separate annex, which constitutes an integral part of this document.

At some locations on the infrastructure and in some cases, there are deviations from the applicable regulations (approved by the Directorate for Railways upon IZS's proposal). The information about this is published by IZS. The relevant address for these regulations, instructions and modifications is:

"Infrastructure of Serbian Railways" JSC Traffic Department 6 Nemanjina Street 11000 Belgrade Serbia

Tel.: +381 11 3618 214 Fax: +381 11 3616 814 sektor.sp@srbrail.rs

2.5 Transport of Special Loads

A load shall be considered special if due to its external dimensions, weight or properties, and with respect to the station installations or wagons in transport by one of the railways participating in transport, it causes particular difficulties, wherefore it is received for transport only under special technical or operating conditions. Carriage of special loads in domestic and international railway transport, as well as the conditions under which such carriage may take place, shall be approved by the Infrastructure Manager whose railway infrastructure will be used for transport. IZS provides the special loads service (for vehicles or goods) in accordance with the provisions on transport of special loads set forth in the Rules on Transport of Special Loads ("Official Gazette of the RS", no. 6/17).

IZS shall be responsible for the allocation of capacity and defining the conditions for transport of special loads.



In addition to what was stated above, the railway undertaking in international transport shall comply with the provisions of UIC 502.1 and 502.2, governing the process of approval of requests for transport of special loads. The railway undertaking shall submit a request for transport of loads to the relevant department of IZS. Special loads will be accepted for transport only if special operating and technical conditions are met. For more details on transport of special loads please refer to Chapters 4 and 5 of this Network Statement.

For more details on transport of special loads please contact:

Infrastructure of Serbian Railways"JSC Traffic Department 6 Nemanjina Street 11000 Belgrade Serbia

Tel.: +381 11 3618 214 Fax: +381 11 3616 814 sektor.sp@srbrail.rs

2.6 Transport of Dangerous Goods

Transport of dangerous goods by rail in the Republic of Serbia shall be performed in accordance with: Annex C to Convention concerning international carriage by rail (COTIF) - Regulations governing the international carriage of dangerous goods by rail (RID); the Law on the Transport of Dangerous Goods; the by-laws based on LTDG and other regulations in the Republic of Serbia.

The Ministry of Construction, Transport and Infrastructure is responsible for performance of administrative, inspection, technical and other expert activities in the field of transport of dangerous goods in the Republic of Serbia(www.utot.gov.rs).

2.7 Rolling Stock Acceptance Procedure

Railway undertaking may use only the rolling stock that complies with the technical regulations and standards. Rolling stock shall, by virtue of their structure and technical condition, ensure safety of transport on the infrastructure, safety of transported persons and goods, safety of staff, and shall meet the health and environment protection requirements.

All requirements relating to rolling stock and thereof use on the railway infrastructure of IZS are set forth in the Law on Railway Safety and Interoperability ("Official Gazette of the RS", no. 41/18) and Law on Railway Traffic Safety ("Official Gazette of the RS",no.41/18). Railway undertaking shall be responsible for the technical condition, maintenance and operation of the rolling stock.

2.8 Acceptance Procedure for Railway Undertaking's staff

Railway undertaking shall be responsible for ensuring that his staff meets the requirements stipulated by the Law on Railway Safety ("Official Gazette of the RS", No. 41/8) and applicable by-laws.

The railway undertaking's train manning shall be familiar with the official language in the Republic of Serbia.

Railway undertaking shall be responsible for staff training, validity of periodical knowledge tests, knowledge of track condition and local conditions at stations/stops. Railway undertaking is obliged in that respect to abide by the applicable legislation of the Republic of Serbia.



3. OVERVIEW OF OPERATIONAL AND TECHNICAL CHARACTERISTICS OF THE AVAILABLE RAILWAY INFRASTRUCTURE AND RESTRICTIONS TO ITS USE

3.1 Introduction

The purpose of this section is to provide the information on the railway infrastructure owned by the Republic of Serbia and managed by IZS, to provide the description and overview of the characteristics of the railway lines and appertaining facilities and equipment that can be used by all those to whom the access to and use of infrastructure have been granted in accordance with the provisions of the Law on Railways. Other information on the IZS network can be found on the website www.infrazs.rs.

Information on the railway infrastructure published in this document is based on the facts that were familiar at the time of its preparation. All changes occurring after publishing of this document will be updated on the website www.infrazs.rs.

3.2 Network Size

The total structural length of the standard-gauge lines on the territory of "Infrastructure of Serbian Railways" JSC network amounts 3333,4 km, out of which 3044,7 km of single-track and 288,7 km of double-track lines. Out from the mentioned length, 1744,4 km of the main tracks and 1589,0 km of other tracks. Totalling of km of 1273,7 km of open track have been electrified, together with the main through tracks (985,0 km of single-track and 288,7 km of double-track lines).

The total length of tracks on electrified open tracks and the main running tracks is 1.563 km out of which the length of electrified open tracks and running tracks 1.563 km. All above data relate to standard-gauge 1435 mm tracks. Detailed information is given in Appendix 6.

Besides that, "Infrastructure of Serbian Railways" JSC is also managing with museum-tourist railway line - "Shargan Eight" - which is 22, 5 km long and whereof track gauge is 760 mm.

3.2.1 Borders

In terms of ownership and management of the railway network, there is only one railway network in the Republic of Serbia, and this is the state-owned network, managed by IZS. Therefore, the term "border" also means a state border and represents one of the borders with the neighbouring railway networks.

The IZS railway network borders with the neighbouring railway networks are the following border stations: Subotica, Horgoš, Kikinda, Vršac, Bogojevo, Šid, Brasina, Preševo, Đeneral Janković, Vrbnica and Dimitrovgrad.

At crossing the state borders, the track gauge remains unchanged.

The type of traction is changed only at the border crossing with Bulgaria, in the station Dimitrovgrad on the railway line Nis- Dimitrovgrad- State border.

3.2.2 Network Connections

The railway network of the Republic of Serbia is connected with the railway networks of the following seven countries: Croatia, Hungary, Romania, Bulgaria, North Macedonia, Montenegro and Bosnia and Herzegovina. Traffic may be organized via ten border crossings, whils the one is under the control of UMNIK railways.

For more detailed information please refer to Table No 2. The names of neighbouring countries' stations in the table are given in its authentic form as registered in the official train timetables.



The notion joint border station marks border station in which border control is performed jointly by state authorities, as well as traffic change between railway undertakings. Joint border stations are governed by bilateral state acts. Performing traffic change in other border stations in within decision —making domain and agreement between railway undertakings.

Table No 2. Border crossings, border railway lines and border stations

	Neighbouring country	Border railway lines	Border stations	Neighbouring infrastructure managers	
1	Croatia	Šid-state border -Tovarnik	Šid Tovarnik	HŽI	
1		Bogojevo-state border- Erdut	Богојево Erdut	HŽI	
2	Hungary	Subotica -state border- Kelebia	Subotica Kelebia	MAV Zrt	
		Horgoš-state border-Roszke	Horgoš Roszke	MAV Zrt	
3	Romania	Vršac- state border - Stamora Moravita	Vršac Stamora Moravita	CFR SA	
		Kikinda-state border- Jimbolia	Kikinda Jimbolia	CFR SA	
4	Bulgaria	Dimitrovgrad-state border Dragoman	Dimitrovgrad Dragoman	NKŽI	
5	North Macedonia	Preševo- state border Tabanovci	Preševo/ Ristovac Tabanovci	IŽRSM	
		Đeneral Janković - state border - Volkovo	Đeneral Janković	IŽRSM	
6	Monte Negro	Vrbnica - state border – Bijelo Polje	Vrbnica / Prijepolje freight Bijelo Polje	ŽICG	
7	Bosnia and Herzegovina	Brasina - state border – Zvornik Novi	Brasina Zvornik Novi	ŽRS	

Within the national network, the public railway infrastructure managed by IZS is connected with other railway infrastructures in the Republic of Serbia. The sidings of Elektroprivreda Srbije (Thermal Power Plant Nikola Tesla, Thermal Power Plant Kolubara, etc.).

These sidings are connected to the national IZS network. These sidings are used for transport of goods for own needs and they do not belong to the national railway network.

Railway infrastructure managed by IŽS is connected with a number of railway industrial sidings owned by the business entities.

For other information on railway infrastructure managed by IŽS, which are not contained and presented herein, please contact IŽS at the following address:

"Infrastructure of Serbian Railways" JSC Department for Access to the Railway Infrastructure 6 Nemanjina St., 11000 Belgrade, Serbia

Phone.: +381 11 3618 214 Fax: +381 11 3616 814 sektor.pzi@srbrail.rs



3.3 Description of railway network

3.3.1 Geographic data

General network information are given in Table no. 3.

Table No 3. Structural lenght of the lines within the network

Total network length	3 333,4 km
Single-track lines	3 044,7 km
Double track lines	288,7 km
Narrow-gauge lines	22,5 km*
Non-electrified lines	2 348,9 km
Electrified lines	1 273,7 km

^{*} Narrow-gauge line Šargan Vitasi – Mokra Gora – State border

3.3.1.1 Types of railway lines

Pursuant to the Law on categorization of railway lines that belong to Public railway infrastructure ("Official Gazette of the RS", no. 92/20) applied by the "Serbian Railways Infrastructure" JCS, railway lines are classified as main lines, regional lines, local lines, shunting lines and museum-tourist lines.

Pursuant to the Law on Railway, railway lines are classified as follows:

- 1. main lines- of importance to international and domestic service;
- 2. regional lines of importance to regional and local service;
- 3. local lines of importance to local service;
- 4. shunting lines of importance to business entities,
- 5. museum-tourist railway lines.

Main lines with associated line number are:

- 101 Belgrade Centre-S. Pazova-Sid-St.bord.-(Tovarnik);
- 102 Belgrade Centre Junction "G"- Rakovica-Mladenovac-Lapovo-Nis-Presevo-State border-(Tabanovce);
- 103 (Belgrade Centre)- Rakovica-Jajinci-M.Krsna-V.Plana;
- 104 (Jagodina) Cuprija Junction Cuprija-Paracin;
- 105 (Belgrade Centre)-S.Pazova-N.Sad-Subotica-St.bord.-(Kelebia);
- 106 Nis-Dimitrovgrad-St.bord.-(Dragoman);
- 107 Belgrade Centre-Pancevo Main-Vrsac- St.bord.-(Stamora Moravita);
- 108 (Belgrade Centre)-Resnik-Pozega-Vrbnica-St.bord.-(Bijelo Polje);
- 109 Lapovo-Kraljevo-Lesak-Kosovo Polje-Djeneral Jankovic- St.bord.-(Volkovo);
- 110 Subotica-Bogojevo-St.bord.-(Erdut);
- 111 Belgrade Marshalling Yard "A"-Ostruznica-Batajnica;
- 112 Belgrade Marshalling Yard "B"-Ostruznica;
- 113 Belgrade Marshalling Yard "A"-Junc. "B"- Junc. "K/K1"-Resnik;
- 114 Ostruznica-Junc. "B"-(Junc. "K/K1");
- 115 Belgrade MY "B"-Junc. "R"- Junc. "A"-(Resnik);
- 116 (Belgrade MY "B")-Junc. "R"-Rakovica;
- 117 Belgrade MY "A"-Junc. "T"-Rakovica;
- 118 Belgrade MY "B"-Junc. "T"-(Rakovica);
- 119 Connecting line in the area of Junction "K/K1": (Junc. "B")--Points "K"-Points "K1"-(Jajinci);
- 120 (Junc. Pancevo Bridge)-Junc. Karadjordjev park-Junc. Dedinje-(Junc. "G");
- 121 Indiija-Golubinci;
- 122 N. Sad-N. Sad MY-Junc. Sajlovo;
- 123 Deviation at the station Mala Krsna: (Kolari)-Junction points 1-Junction points 28-(Osipaonica);
- 124 Junc. Lapovo Varos-Lapovo MY-Lapovo;
- 125 Trupale-Nis MY-Medjurovo;
- 126 Crveni krst-Nis MY;



- 127 Nis-Junc. bridge-(Nis MY);
- 128 Junction track at the station Nis: (Crveni krst)-Junction points 3-Junction points 4-(Cele kula).

Regional lines with associated line number are:

- 201 Subotica-Horgos-St.bord.-(Roszke);
- 202 Pancevo Main-Zrenjanin-Kikinda-State border-(Jimbolia);
- $203 \ Belgrade \ Centre \ (km\ 7+041) Belgrade \ Danube Junction \ Pancevo \ bridge;$
- 204 Topcider Passenger station (km 4 + 195) Junction "G" (Rakovica);
- 205 Banatsko Milosevo-Senta-Subotica;
- 206 Pancevo Varos-Junc. "2a"-(Jabuka);
- 207 Novi Sad-Odzaci-Bogojevo;
- 208 (N.Sad)-Junc. Sajlovo-Rimski Sancevi-Orlovat stop;
- 209 N.Sad MY Junction points 7-N.Sad Lokoteretna-Sajlovo Junc.;
- 210 Orlovat- Junction "1a"-(Lukicevo);
- 211 Ruma-Sabac-Junc. Donja Borina-St.bord.-(Zvornik Novi);
- 212 (Platicevo)-Junc. "1"-Junc. "3"-(Stitar);
- 213 Stalac-Kraljevo-Pozega;
- 214 Junction track at the station Kraljevo: (Mataruska Banja)-Junction points 72-Junction points 73-(Adrani)
- 215 Junction track at the station Pozega: (Uzici)-Junction points 53-Junction points 54-(Dragacevo);
- 216 Smederevo Junction Jezava Radinac Mala Krsna;
- 217 Junction Jezava Smederevo Port:
- 218 Mala Krsna-Bor-Junction ,,2"-(Vrazogrnac);
- 219 (Nis) Crveni krst-Zajecar-Prahovo Port;
- 220 (Rgotina)-Junction ,,3"-Junction ,,1"-(Trnavac);
- 221 Barlovo)-Junction "1"-Kursumlija;
- 222 Kursumlija-Kastrat;
- 223 Doljevac-Kastrat-Merdare Kosovo Polje;
- 224 Kosovo Polje-Metohija-Pec;
- 225 Kosovo Polje Teretna-Junc. "1"-(Drenica).

Local lines with associated line number are:

- 301 Subotica-Subotica Factory;
- 302 Subotica-Subotica Hospital;
- 303 Novi Sad (km 1+042)-Novi Sad stokehold;
- 304 (Podbara)-Junc. "3"-Junc. "2"-(Kac);
- 305 (Rimski Sancevi)-Junction "1"-Junction "3"-(Podbara);
- 306 Rimski Sancevi-Zabalj;
- 307 Vrbas-Sombor;
- 308 (Brasina)-Junc. Donja Borina-Zvornik Grad;
- 309 Pancevo Varos-Pancevo Vojlovica;
- 310 Junction track at the station Senta: (Coka)-Junction points 22-Junction points 23-(Orom);
- 311 Markovac-Svilajnac-Despotovac- (Resavica);
- 312 Metohiia-Prizren:
- 313 Vrsac Bela Crkva.

Shunting lines with associated line number are:

- 401 Vrsac-Vrsac Vasariste:
- 402 Kikinda-MSK(km 6+413);
- 403 Bogojevo-Dunavska Obala;
- 404 Paracin-Stari Popovac;
- 405 Surcin-Jakovo-Becmen;
- 406 Sid-Sr.Raca Nova-St.bord.-(Bijeljina);
- 407 Ovca-Padinska Skela;



408 Sonta – Apatin factory.

Museum-tourist line with its associated number is:

501 Šargan Vitasi – Mokra Gora – State border (Višegrad).

Due to technical conditions, traffic on certain local and shunting lines is completely or partially suspended. More details can be found in Appendix 6.

The following ZS lines belong to main international railway lines according to AGC (European Agreement on Main International Railway Lines):

<u>Direction North – South</u>

E 771 Subotica-Bogojevo E 79 Belgrade - Vrbnica E 85 Subotica-Beograd-Nis-Presevo Kraljevo-Djeneral Jankovic

Direction West - East

E 66 Belgrade-Vrsac E 70 Sid-Belgrade-Nis-Dimitrovgrad

3.3.1.2 Track gauge

Track gauge along the network is 1435 mm, except for the museum-tourist line the "Shargan Eight", whose gauge is 760 mm.

3.3.1.3 Names of railway stations and nodes

Km-points and distances in km between particular stations, locations and railway nodes are given in Appendix 6 and Appendix 10.

3.3.2 The characteristics of the railway infrastructure

3.3.2.1 Loading gauge

Loading gauge (train gauge) is a limited space viewed as a cross section vertical to the track axis that may not be exceeded by any part of the rail vehicle, whether loaded or empty. The loading gauge registered for all IZS lines for international traffic is UIC GB, except for parts of the railway lines Valjevo – Kalenic and Grlica - Djeneral Jankovic, where the registered loading profile is UIC GA. These loading gauges are in line with the UIC Leaflet 506.

The loading gauge that applies to domestic traffic on IZS lines is JZ I. JZ I gauge is slightly larger than the UIC GA loading gauge and slightly smaller than UIC GB. The summary of loading gauges is presented in Appendices 3.1.-3.3.

IZS lines have not been coded for the combined transport gauges in accordance with UIC Leaflet 596-6. However, the measurements that were performed have shown that movements of wagons carrying combined transport load units - such as high cube containers (HCC), semi-trailers and entire road vehicles - are possible. Movements of such consignments are possible under special safety conditions in the exceptional transport regime.

For further information, please contact IZS:

JSC "Serbian Railways Infrastructure" Traffic Operations Department 6 Nemanjina St. 11000 Belgrade



Serbia

Tel.: +381 11 3618 214 Fax: +381 11 3616 814 E-mail: sp@infrazs.rs

3.3.2.2 Admissible weights per axle and per linear metre

In accordance with UIC leaflet 700, depending on track capacity to bear loads by vehicles on the railway network, various weight limits are applicable and expressed in tonnes per axle and tonnes per linear metre.

The load by a railway vehicle per linear metre is the load of an unloaded or loaded railway vehicle divided by the length of the railway vehicle expressed in metres and measured between tops of uncompressed buffers.

Axle load of a railway vehicle is the load of an unloaded or loaded railway vehicle divided by the number of axles of the railway vehicle.

Lines were classified pursuant to what was stated above (Regulations on classification of railway lines No. 325, published in the Official Gazette of the Community of Yugoslav Railways (ZJZ) Nos. 7/89 and 9/90). The classification of IZS railway lines is shown in Table No. 4.

Table No 4: Classes of admissible loads on IZS network

A dmissible	loods		Admissible loads per axle				
Admissible loads pellinear metre		per	A	В	С	D	
			16 t	18 t	20 t	22,5 t	
1	5,0 t/m		A	B1			
2	6,4 t/m			B2	C2	D2	
3	7,2 t/m				C3	D3	
4	8,0 t/m					D4	

The overview of admissible loads in tonnes per axle and in tonnes per linear metre is presented in Appendix 6.

3.3.2.3 Characteristic line gradient and resistance

In order to determine required train braked weight, characteristic gradients for braking must be determined for each line or track section. Characteristic line gradient for braking means the value of its longitudinal gradient, on the basis of which braked weight percentages are determined, i.e. the required train braked weight on a certain line or track section. The steepest longitudinal gradient (rising or falling) on a specific line (or section), over the length of 1000 metres or more, is considered to be the characteristic gradient of that specific line or section. In determining characteristic gradient for braking, curve and tunnel related resistances are not taken into consideration.

The characteristic resistance of a line or one of its sections means the value of its specific resistance on gradients, in curves and tunnels, on the basis of which train weight i.e. locomotive hauled load is determined.

The overview of the characteristic gradients and characteristic resistances of particular lines is presented in Appendix 6.

3.3.2.4 Speeds

The maximum permissible speed with respect to line capacity is the maximum speed permitted on a line or line section with respect to the railway line superstructure and its structures (carrying capacity of the track, its lining and levelling, curve radius, points design, etc.), fixed electric traction installations and signalling devices on the line, and it may not exceed the lowest one of such speeds.



Restricted speeds are permanently prescribed lower speeds than maximum permissible speeds on the railway line along which traffic can be operated only over some of its parts owing to its technical condition, or the speeds permissible over the points area.

For further information on maximum permissible speeds with respect to line capacity, please refer to Appendix 6.

3.3.2.5 Maximum train lengths

The length of each train is determined during capacity allocation procedures and it is expressed in rounded metres. The maximum permissible length of a train operating on a line, for the purpose of its unobstructed acceptance and forming in railway stations, at passing points and other locations, is determined on the basis of the maximum permissible train length in certain stations, passing points and other service points along the given line and with respect to usable length of main lines.

Maximum permissible length of a train for station tracks is obtained by subtracting the length of 25 m to be taken up by the locomotive and spare 10 m to be taken up by the train from the usable track length expressed in metres and determined under the Instructions (Instructions on the technical standards and data for the preparation of timetable implementation, Official Gazette of ZJZ Nos. 9/89, 6/91, 8-9/91, 4/92, and 9/92).

Actual length of a train is obtained by totalling the lengths over uncompressed buffers of all vehicles included in the train, except for the locomotive hauling the train, whose length has been taken into account during determination of maximum permissible train length at a station. If a train has double heading, banking locomotive or intermediate-haul locomotive, their lengths must be taken into account when determining the train length.

The overview of distances between locations and maximum permitted train lengths relative to usable track lengths is presented in Appendix 6.

The provisions of paragraph 2 of this Article shall also apply to the length of the passenger train length. The passenger train can be longer than the length of the platforms and arranged areas in service point, and if the railway undertaking requires their engagement in such service points, in accordance with local and / or other specific circumstances, he must set and ensure the necessary safety measures for passengers.

Passenger train length is limited by platform length. The overview of platforms and arranged areas in locations is given in Appendix 8 and for further details, please contact IZS:

"Infrastructure of Serbian Railways" JSC Railway infrastructure access department 6 Nemanjina St. 11000 Belgrade Serbia

Tel.: +381 11 3618 214 Fax: +381 11 3616 814 sektor.pzi@srbrail.rs

3.3.2.6 The power supply system

IZS ensures the transmission of required electric energy from the public power supply network of the Republic of Serbia via fixed installations of electric traction (substations) and the contact line for electric train traction. All electrified lines have the basic supply system, which is single-phase AC 25 kV 50 Hz system. The overview of electrified lines is presented in Appendix 3.4. The overview of power installations is presented in Appendix 3.5.

The power supply system voltage is U=25 kV, and its frequency is f=50Hz. The heights of the contact wire are Hkpmin=5000 mm, Hkpnom=5500 mm and Hkpmax=6000 mm. Staggering of the contact wire is $p=\pm200 \text{ mm}$ along the straight track, and p=300 mm in curves.



In the 25kV, 50 Hz power supply system, the use of pantograph (current collector) for electric motive power is permitted according to the General Contact Line Catalogue (type POS-III/E). The design of pantograph is shown in Figure No 1.

The basic parameters for the asymmetric pantograph used on IZS network, with double contact strip and pneumatic actuator, are in accordance with the provisions of UIC Leaflet 608 and are shown in Table No 5.

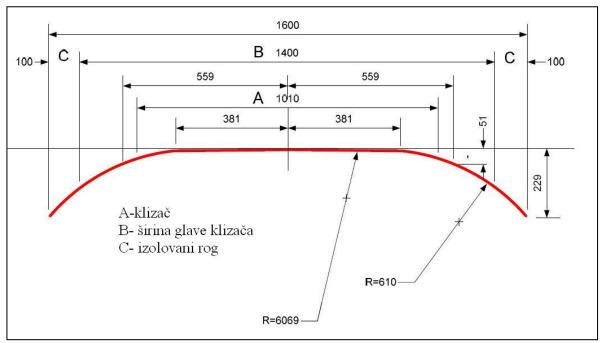


Figure No 1. – Dimensions of pantograph

Table No. 5: Pantograph parameters

Permissible width of horned slipper holder (mm)	Width of metal horns (mm)	Rated current (A)	Height of contact line (mm)	Minimum length of contact strip (mm)	Static force Fa (N	Maximum aerodynamic force Fa (N)	Maximum speed (km/h)	Type of contact strip
1600	1400	400	6200 5500 5000	800	60-90	70	160	graphite

3.3.3 The traffic control (regulation) and communication equipment and systems

Train traffic control, including the signalling system, regulation of train movements, acceptance and dispatching of trains, and communication related to train movements, is performed via signalling and interlocking devices and telecommunication devices.

The overviews of signalling and interlocking devices and telecommunication devices are presented in Appendices 3.6. and 3.7.

3.3.3.1 Signalling systems

Railway signals provide signals by means of which railway staff can mutually communicate in a fast and reliable way about train operation, shunting, permitted and forbidden runnings via a certain location, the track condition, the need for speed restriction, etc. Some signals are used for preserving of personal safety of railway staff and other persons.



Signalling Regulations (Regulations No. 1, published in the "Official Gazette of ZJZ" No. 4/96) are applicable regarding the use of signals and signal identification with corresponding amendments, corrections and interpretations.

There are eleven types of station track interlocking on the JSC "Serbian Railways Infrastructure" network, and they are presented in Appendix 6.

On IZS network, all main arterial routes are equipped with fully centralized electrical relay signalling & interlocking equipment, as follows:

- Belgrade-Nis-Presevo: Siemens SpDrS-64/JZ track circuit system
- Belgrade Resnik-Vrbnica: Siemens SpDrS-64/JZ axle counter system
- Belgrade-Sid: Siemens SpDrS-64/JZ track circuit system
- Indjija-Subotica: Westinghouse track circuit system

The main arterial routes Sid-Belgrade-Nis-Presevo and Belgrade-Vrbnica are included in the system of remote traffic control and supervision – remote control centre (manufactured by Westinghouse). There are three remote control centres - in Belgrade, Pozega and Nis. Based on this device 3 remote control centres were built in Bekgrade, Nis and Pozega with total of 140 controlled stations.

Dimitrovgrad Station (the railway line Nis-Dimitrovgrad-State border) is equipped with electronic signalling & interlocking device Simis-W with Iltis control & supervision system manufactured by Siemens.

Stations Belgrade Centre, Pancevo Glavna and Cuprija are equiped with electronic signalling & interlocking devices.

Other lines are equipped with the above stated interlocking types, but there is no continuity as regards one system of interlocking.

3.3.3.2 Traffic control systems

The movement of trains running in opposite directions and consecutive train movements are controlled by requesting and giving the permission i.e. announcement of arrival and departure.

Consecutive trains can follow one another only in particular time intervals. For control of the trains following one another in particular time intervals, railway lines can be divided into:

- Block sections between stations when two neighbouring stations control the sequence of trains in the station interspace,
- Train-recording points when two neighbouring train-recording points or a station and a neighbouring train-recording point control the sequence of trains in announcement intervals,
- Block sections when the traffic of consecutive trains is controlled by automatic positioning of automatic block signals in the position of permitted or forbidden train ride.

In addition to space distance, in case of consecutive trains in train reporting and block intervals, there should be a time interval so as to avoid train stopping before automatic block signals due to different train journey times over block sections (time spacing).

On the railway lines of JSC "Serbian Railways Infrastructure" there are also interstation interlocking devices (MZ) which regulate train traffic at distances between stations, where an interstation track occupation is reported by means of axle counters.

There can only be one train in one block section on the same track and at the same time.

Train operation is regulated by movements inspectors who use the station signal boxes and along railway lines through remote control – by the remote control dispatcher from the central signal box, except at the



stations that are not included in the remote control system. The traffic of trains running in opposite directions and consecutive trains is regulated by movements inspectors at manned stations and along the railway lines included in the remote control system it is regulated by remote control dispatchers.

"Infrastructure of Serbian Railways" JSC uses "Flexi code 560" remote control system on its territory, manufactured by Westinghouse. It uses semiconductor technology and a code system, and controls instruction completeness at the stages of forwarding and acceptance. It was developed as a standard format and it consists of a remote control centre, which can control 32 stations on one railway line and of one or more lines for data transfer, as well as the remote control equipment at stations (satellites).

Based on this device, 3 remote control centres were constructed in Belgrade, Nis and Pozega, with 140 controlled stations.

The train control system is governed by the Traffic Regulations (Regulations No 2 published in the "Official Gazette of the Community of Yugoslav Railways (ZJZ)" No. 3/94) and Traffic Instructions (Instructions No. 40, published in the "Official Gazette of the Community of Yugoslav Railways (ZJZ)" No. 6/80-47), with all appurtenant amendments, corrections and interpretations.

The train control methodology is presented in Appendix 6.

3.3.3.3 Communication systems

In the course of traffic operations, communication is carried out via telecommunication devices – telephone and ground-train radio links. Communication via means that provide reliable and continuous registration of notifications (teleprinter, telephone or radio link with registration devices) is considered to be verifiable communication. The notifications related to the control of train movements (permissions and instructions given to train crew via telephone or ground-train radio links) are furnished exclusively via devices for verifiable communication.

The communication between movements inspectors, remote control centre dispatchers and drivers is carried out in Serbian language.

All notifications are given in the format and manner set forth in the Traffic Regulations (Regulations No 2), Regulations on domestic and international telegraph, telephone and radio-traffic (Regulations No 8), Traffic Instructions (Instructions No 40) and Regulation on records kept by the railway undertaking and the railway infrastructure manager ("Official Gazette of the RS"no.56/2019).

The overview of telecommunication links and installations is presented in Appendix 3.7.

IZS network uses analogue ground-train radio system (RDV) for transmission of specially coded voice information in the frequency range of 460 MHz and by using frequencies belonging to quadrifrequency groups according to UIC Leaflet 751-3. The system operates in full duplex (modes A and B), with selective calling option including automatic identification and making special calls (group, intervention).

There is a possibility of integrating into local radio networks (mode C) and automatic telephone exchange. The devices were manufactured by AEG (now EADS telecom) in the '70s and the '90s.

On the lines with a dispatcher control system, the train operating staff is connected with the remote control centre dispatchers via mobile RDV units, which represent mandatory driver's cab equipment.

3.3.3.4 Automatic train control system-ATC systems

For the time being, there is no automatic train control system on the railway lines of JSC "Serbian Railways Infrastructure".

Intermittent transmission AS device (automatic train control) with resonant frequencies of 1000Hz and 2000Hz, type Indusi (I 60), is used for the control of train movements. It is comprised of:



- track magnet (stationary trackside part of the device)
- transmission system (inductive link between the track magnet and locomotive auto-stop device), and
- locomotive part installed on the traction unit.

Track magnets are installed on the right-hand side of the track, in the direction of train movement.

Functioning and operating of AS devices have been stipulated under the Operator's Manual for inductive I-60 AS devices (Instructions No 425), Instructions for installation, testing and putting into operation and maintenance of the locomotive part of I-60 AS device (Instructions No 426), and Instructions for use, installation, testing and maintenance of trackside AS devices on the lines of Yugoslav Railways (Instructions No 427).

The overview of the lines equipped with AS device is presented in Appendix 3.6.

3.4 Traffic restrictions

3.4.1 Specialised Infrastructure

According to Directive 2001/14/EC Article 24, if there are appropriate alternative routes, Infrastructure Manager may, upon consulting interested parties, designate the specialised infrastructure for particular types of traffic. Such infrastructure will be deemed available for all types of traffic that are in accordance with the characteristics required for the traffic on such routes. This will not prevent the use of the same infrastructure for other types of traffic when capacities are available and when the rolling stock are in line with the technical characteristics necessary for traffic on that line.

There is no specialised infrastructure on the network operated by IZS in the above sense.

3.4.2 Environmental restrictions

Environmental restrictions, such as noise levels, are not currently applied on the network managed by IZS.

3.4.3 Dangerous goods

The transport of dangerous goods on the railway infrastructure operated by IZS is regulated by international and national regulations in the field of transport of dangerous goods in accordance with 2.7 - Transport of Dangerous Goods.

Locations for loading, unloading, transhipment of dangerous goods must meet the requirements prescribed by the regulations for load transfer points (Article 26 of ZOTOT). The stations (service points open to the acceptance and forwarding of goods) within the rail infrastructure do not meet this requirement, wherefore handling of dangerous goods in the station areas (service points) is not allowed.

Handling of certain types of dangerous goods () can be performed on special tracks under special conditions, i.e. on particular parts of the tracks in particular stations. The list of service points in which transhipment of dangerous goods can be performed is given in Appendix 3.8.b.

For further details, please contact IZS:

JSC "Serbian Railways Infrastructure"
Traffic Department
Central Operational Department
Main Dispatcher for Transport of Dangerous Goods
6 Nemanjina St
11000 Belgrade
Serbia



Tel.: +381 11 3619 288 e-mail: rid1@srbrail.rs.

In addition, handling of dangerous goods can be performed on handling points of the industrial sidings not owned by IZS. Appendix 3.8. contains the list of stations with appurtenant industrial sidings where it is possible to handle dangerous goods.

3.4.4 Tunnel restrictions

On the railway line Belgrade Centre –Pancevo Main Station - Vrsac- State border through tunnel «Vracar» i.e. on section junction Karadjordjev park – junction and stop Pancevo Bridge and through tunnel «connecting line» i.e. on the route junction Karadorđev park- junction Dedinje trains with motive power, trains with deiesel traction, as well as vehicles with diesel set cannot be regularly dispached (energy-distribution wagon, reefers with generator station). Exceptions to this are diesel traction trains series 711 and auxiliary trains with diesel traction of infrastructure manager which urgenly refer to eleminate accidents occured and diesel motor track vehicles to eliminate obstacles that disable traffic, while respecting the limitations that interval of clearance and time between passing any two vehicles with diesel drive cannot be shorter than 30 minutes.

In other cases, the diesel motor vehicles of the infrastructure manager can perform traffic on the specified sections when the transport of trains for transport of passengers is not organized in the service point Vukov spomenik.

With the obligation to respect the restrictions regarding the drive of a vehicle, for the transport of freight trains containing a car with a RID marking (loaded or empty vehicles for transport of dangerous goods), the following conditions apply:

- on the part of railway line Pancevo Bridge—Rakovica and Pancevo Bridge Belgrade Centre trains can operate only in period whn traffic of passengers trains is not organized i.e. when the station is closed for passengers transport,
- on the part of railway line Pancevo Bridge –Rakovica and Belgrade Centre there can be only one train with coar marked RID i.e. does not let meeting of two freight trains if at least one is composed of car marked RID;
- during the operation of trains composed of car marked RID an additional technical inspection must be carried out, whick included checking bearing heat and enhanced visual control of loads (valve, clamps etc.) for the train which operaters in direction Pancevo Bridge Rakovica and Pancevo Bridge Belgrade Centre in Pancevo Glavna station, for trains operating in direction Rakovica —Pancevo Bridge or in Rakovica station or in Belgrade Marshalling yard (if it is performed in Belgrade Marshalling yard, there is no need to be performed in Rakovica station);
- obligation of railway undertaking upon perfomed additional technical inspection of trains in stations at stations Pancevo glavna, Rakovica, and Belgrade marshalling is to register clause in telegraph-telephone log (C-43) "The additional technical inspection of train was performed on date ____at_hours of train no____(signature of authorized representative of railway undertaking)", thereby to inform the train dispacher in proved way that technical inspection of train was completed before dispaching on the part of railway line Pancevo Bridge-Rakovica. In the event that railway undertaking does not have organized inspection service in stations Pancevo Main, Rakovica and Belgrade marshalling, and that technical inspection of trains composed of loaded or empty car marked RID, such train can not operate on the part of railway line Pancevo Bridge -Belgrade.

Freight trains, which have a loaded or empty car with the mark RID, must in no case operate in the direction of Belgrade Center - Pančevački Bridge.

3.4.5 Bridge restrictions

There are no bridge restrictions in terms of specifically defined requirements apart from those arising from the bridge structural parameters. Exceptionally, until the construction of the fifth longitudinal bridge girder into the construction of "Pancevo bridge" across Danube river, on the railway line Belgrade Centre –



Pancevo Main Station – Vrsac – State Border, between location on junction Pancevo bridge—Krnjaca bridge all assemblies of two freight trains are prohibited on "Pancevo bridge".

3.4.6 Restrictions in traffic organization and compiling of paths

For all freight trains running in the south-north and transit the part of railway infrastructure between station Velika Plana and node Belgrade, regulary routing is across the railway line (Belgrade)-Rakovica-Jajinci-M. Krsna-V. Plana and the compiling of paths in done in this way. Exceptionally this rule cannot be applied during the planned works on reconstruction of above-mentioned railway line.

For all freight trains running in the south-north and transit the part of railway infrastructure between node Belgrade and station Velika Plana, regularly routing is across the railway line (Belgrade)-Resnik-Mladenovac-V. Plana and the compiling of paths in done in this way.

3.5 Availability of the railway infrastructure

All railway lines operated by IZS are open to railway traffic from 0.00 h to 24.00, except for the lines on which the traffic due to technical condition is temporary impossible/ or with the Decision of the Government of the Republic of Serbia the consent for the suspension of public transport of passengers and goods on the part on the railway infrastructure was given ("Official Gazette of the RS"no.80/2016), and they are listed in Appendix 6. Service points are open for railway traffic permanently, as some of them may have limited operating hours envisaged for the effective staff of the traffic service, as stated in Appendix 6. Details about mentioned working time are published in the timetable material, and for more datils please contact:

"Infrastructure of Serbian Railways"JSC Traffic Department 6 Nemanjina Street, 11 000 Belgrade, Serbia

Tel/Fax: +381 11 3618 214 E mail: sektor.sp@infrazs.

Exceptionally, on the railway lines with limited hours of operation where mentioned staff is working in limited operating hours, train operations can take place outside the mentioned hours when trains have to operate via auxiliary routes due to the occurrence of an accident or incident. Appendix 3.9 contains an overview of auxiliary routes that may be used as alternative to regular ones. Certain lines that may be used as auxiliary routes can be of different class from the line class along the regular routes with respect to permitted loads per axle or m'.

A railway operator may also submit a request for train path allocation outside the operating hours of the line or railway service points, in which case such railway operator has to bear all the costs of entire traffic organization for longer operating hours of the line, i.e. service points.

If several railway operators are using longer operating hours, they will jointly bear the costs.

Infrastructure Manager is responsible for maintenance, overhaul and modernization of the infrastructure in order to provide appropriate service and safe performance of transport operations. In this respect, IZS plans regular maintenance of the lines that affect the availability of infrastructure, in the sense of closure of specific line sections for a specific time period or introduction of temporary train speed restrictions.

The infrastructure use restrictions required for regular infrastructure maintenance are part of the capacity allocation process and are published within the timetable documents, in the timetable booklets (KRVs).

IZS will issue for all railway operators a 3 months' prior notice of any planned longer works to be performed on the railway infrastructure and which could affect the transport operations and the timetable due to the speed restrictions, route changes, use of buses instead of trains for the carriage of passengers, etc.

The railway lines on the territory of Kosovo and Metohia are under interim supervision of UNMIK, according to the Temporary Agreement between ZTP Beograd and UNMIK Railways of 31/05/2002 (ref.



number 300/2002 - 153 of 31/05/2002), wherefore the path allocation requests for this territory will not be taken into consideration.

3.6 Services facilities

Services facility means a facility, including land, buildings and equipment, arranged in a particular manner, as a whole or partially, in order to enable provision and use of basic services provided in such facilities under the non-discriminatory and transparent conditions.

Services facilities are:

- 1) station buildings, i.e. a part of station buildings, in passenger stations, intended for railway passengers, and other facilities used in passenger traffic, including the travelling information displays and the appropriate ticketing points;
- 2) freight terminals;
- 3) marshalling yards and train formation tracks, including the shunting tracks;
- 4) tracks for storing intended for railway undertakings' vehicles using the allocated infrastructure capacity;
- 5) maintenance facilities, with the exception of maintenance facilities for high speed trains or other types of rolling stock requiring specific facilities where the works performed are not routine works performed as a part of daily activities and require withdrawal of vehicle from service;
- 6) other technical facilities, including the cleaning and washing facilities;
- 7) inland waterways port facilities connected to railway activities;
- 8) facilities for provision of assistance;
- 9) facilities for fuel storing and supplying for which the prices are presented separately.

3.6.1 The stations, passing points and stops for passenger arrival and departure

Appendix 6 contains an overview of locations where passengers may board/get off the train.

The stations along the narrow gauge lines are used for passenger service only.

3.6.2 Freight terminals

The term "freight terminals" on the railway network operated by Serbian Railways Infrastructure (IŽS), means all the railway service points used for freight operations where loading and unloading as well as transhipment operations are carried out.

The following types of terminals are distinguished: stations and transport forwarding, terminals for intermodal freight transport, port terminals.

Overview of services facilities for freight operations is presented in Appendix 6.

Combined transport on railway network can be performed at terminals for combined transport and at port terminals.

Table No 6: Stations connected to freight terminals

No	connected to the	for combined	Address of freight terminal for combined transport	Terminal operator
1.	Beograd Ranžirna (Belgrade Marshalling Yard)		Železnik, Lole Ribara	"ŽIT Beograd" d.o.o., Beograd, Železnik, Lole Ribara 2
2.	Beograd Donji Grad	Luka (Port) Beograd		"Luka Beograd" a.d., Beograd, Žorža Klemansoa 37



3.	Surčin	Nelt	Beograd, Dobanovci, Maršala Tita 206.	"Nelt Co" d.o.o., Beograd
4.	Novi Sad Ranžirna (Novi Sad Marshalling Yard)	Luka (Port) Novi Sad	Novi Sad, Carinska 1.	"Luka Novi Sad" a.d., Novi Sad, Carinska 1
5.	Pančevo Varoš	Luka (Port) Dunav	Pančevo, Luka Dunav 1.	"Luka Dunav Pančevo" a.d., Pančevo, Luka Dunav 1
6.	Smederevo	Luka (Port) Smederevo	Smederevo, Radinac b.b.	"Luka Dunav – Železara Smederevo" d.o.o., Smederevo, Radinac b.b.
7.	Prahovo Pristanište	Luka (Port) Prahovo	Prahovo, Radujevački put b.b.	"Luka Prahovo IHP Prahovo– Krajina" d.o.o., Prahovo, Radujevački put b.b.
8.	Senta	Luka (Port) Senta	Senta, Pristanišna 1.	"Luka Senta" a.d., Senta, Pristanišna 1
9.	Sremska Mitrovica	Luka (Port) Leget	Sremska Mitrovica, Jarački put 10.	"RTC Luka Leget" a.d., Sremska Mitrovica, Jarački put 10
10.	Šabac	Luka (Port) Zorka Šabac	Šabac, Narodnih heroja 1.	"Zorka transporti" d.o.o., Šabac, Narodnih heroja 1

3.6.3 Marshalling yards and train formation tracks including the shunting tracks

Freight trains forming yards

Freight train formation yards are places where trains may be split or joined and such stations are called marshalling and distribution yards. On IŽS network there are the following marshalling yards: Novi Sad Ranžirna, Beograd Ranžirna, Lapovo Ranžirna and Niš Ranžirna. Beside marshalling and distribution yards, train formation can be performed in other stations depending of available capacities of stations and planned volume of traffic.

Overview of distribution stations-section for freight trains operation

Distribution station	Distribution section	Comments
1	2	3
	Beograd Marshalling Yard - Novi Sad Marshalling Yard 1)	
	Beograd Marshalling Yard - Pančevo Main St.	
BEOGRAD	Beograd Marshalling Yard – Ruma	
MARSHALLING YARD	Beograd Marshalling Yard - Lapovo Marshalling Yard	
	Beograd Marshalling Yard – Požega	
	Beograd Marshalling Yard – Požarevac ²⁾	
	Beograd Marshalling Yard – Smederevo ³⁾	
	Bogojevo- Novi Sad Marshalling Yard	
BOGOJEVO	Bogojevo – Sombor	
	Bogojevo - Erdut (HŽI)	
BOR	Bor freight station – Požarevac	
FREIGHT STATION	Bor freight station – Zaječar	
	Bor freight station - Prahovo pristanište	
BIJELO POLJE (ŽICG)	B. Polje (ŽICG) - Vrbnica - Prijepolje freight station	



BRASINA	Brasina – Ruma	
	Brasina – Zvornik	for both directions
	Brasina - Zvornik Novi (ŽRS)	
VRŠAC	Vršac - Pančevo Main St.	
	Vršac - Stamora Moravita (CFR SA)	
DIMITROVGRAD	Dimitrovgrad - Niš Marshalling Yard	
ERDUT (HŽI)	Erdut (HŽI) – Bogojevo	
JIMBOLIA (CFR)	Jimbolia (CFR SA)- Kikinda	if applicable
ZAJEČAR	Zaječar - Niš Marshalling Yard 4)	in approvers
2.102.01111	Zaječar - Prahovo pristanište	
	Zaječar - Bor freight station	
ZVORNIK NOVI (ŽRS)	Zvornik Novi (ŽRS) – Brasina	
ZRENJANIN	Zrenjanin – Kikinda	
	Zrenjanin - Pančevo Main St.	
	Zrenjanin - Novi Sad Marshalling Yard	
	Zrenjanin – Senta	
KELEBIA (MAV ZRT)	Kelebia (MAV ZRT) - Subotica	
KIKINDA	Kikinda – Zrenjanin	
	Kikinda – Senta	
	Kikinda - Jimbolia (CFR SA)	
KOSOVO POLJE	Traffic is temporarily regulated by	
FREIGHT STATION	UNMIK railways	
KRALJEVO	Kraljevo - Lapovo Marshalling Yard	
	Kraljevo – Požega	
	Kraljevo – Stalać	
	Kraljevo – Rudnica	for both directions
	Lapovo Marshalling Yard - Beograd Marshalling Yard	
	Lapovo Marshalling Yard – Smederevo	
* . DOTTO	Lapovo Marshalling Yard – Resavica	
LAPOVO	Lapovo Marshalling Yard - Niš Marshalling Yard	
MARSHALLING YARD	Lapovo Marshalling Yard - Kraljevo	
	Lapovo Marshalling Yard - Požarevac Lapovo Marshalling Yard - Ostružnica - (Ruma) ⁵⁾	
	Lapovo Marshalling Yard - Resnik-Pančevo Main St. 6)	
	Lapovo - Niš Marshalling Yard	for certain trains
LAPOVO	Lapovo - Ostružnica - (Ruma) 7)	Tor certain trains
2.11 8 7 8	Lapovo - Resnik - (Pančevo Main St.) 8)	
	Niš Marshalling Yard - Dimitrovgrad	
	Niš Marshalling Yard – Zaječar ⁴⁾	
NIŠ	Niš Marshalling Yard – Preševo	
MARSHALLING YARD	Niš Marshalling Yard - Kuršumlija	for both directions
	Niš Marshalling Yard - Lapovo Marshalling Yard	
	Niš Marshalling Yard - Lapovo	for certain trains
	Novi Sad Marshalling Yard -Beograd Marshalling Yard 1)	
NOTIFICAD	Novi Sad Marshalling Yard – Ruma ⁹⁾	
NOVI SAD	Novi Sad Marshalling Yard - Subotica freight station	
MARSHALLING YARD	Novi Sad Marshalling Yard - Bogojevo	
	Novi Sad Marshalling Yard - Pančevo Main St. Novi Sad Marshalling Yard - Zrenjanin	
	Novi Sad Marshalling Yard - Rimski Šančevi - Bečej	
PANČEVO	Pančevo Main St Beograd Marshalling Yard	
MAIN	Pančevo Main St Beograd Waishaning Tard Pančevo Main St Pančevo Vojlovica	
STATION	Pančevo Main St Novi Sad Marshalling Yard	
,	Pančevo Main St Zrenjanin	
	1	Į.



	Pančevo Main St. – Vršac		
	Pančevo Main St Ruma ¹⁰⁾		
	Pančevo Main St Resnik - (Lapovo Marshalling Yard) 6)		
	Pančevo Main St Resnik - (Lapovo) 8)		
	Pančevo Main St Resnik - (Požega) 11)		
	Pančevo Main St Beograd Dunav	if applicable, for both directions	
PEĆ	Traffic is temporarily regulated by UNMIK railways		
POŽAREVAC	Požarevac –Bor freight station		
	Požarevac – Smederevo		
	Požarevac - Lapovo Marshalling Yard		
	Požarevac - Beograd Marshalling Yard ²⁾		
POŽEGA	Požega – Kraljevo		
	Požega - Prijepolje freight station		
	Požega - Beograd Marshalling Yard		
	Požega - Resnik - (Pančevo Main St.) 11)		
	Požega - Ostružnica - (Ruma) 12)		
PRAHOVO	Prahovo pristanište - Zaječar		
PRISTANIŠTE	Prahovo pristanište - Bor freight station		
PREŠEVO	Preševo - Niš Marshalling Yard		
	Preševo - Tabanovci (IŽRSM)		
PRIJEPOLJE	Prijepolje freight station - Požega		
FREIGHT STATION	Prijepolje freight station - Vrbnica - Bijelo Polje (ŽICG)		
PRIZREN	Traffic is temporarily regulated by		
FRIZACI	UNMIK railways		
	Resnik - Lapovo Marshalling Yard ⁶⁾		
RESNIK	Resnik - Lapovo ⁸⁾		
KESIVIIX	Resnik - Pančevo Main St. 13)		
	Ruma - Pančevo Main St. 10)		
	Ruma - Ostružnica - Lapovo Marshalling Yard 5)		
	Ruma - Ostružnica - Lapovo ⁷⁾		
RUMA	Ruma - Beograd Marshalling Yard		
	Ruma - (Beograd Marshalling Yard) Ostružnica-Lapovo		
	Marshalling Yard ⁵⁾		
	Ruma – Novi Sad Marshalling Yard 9)		
	Ruma – Brasina Ruma – Šid		
	Ruma – Šabac		
	Ruma - Ostružnica - (Požega) 12)		
ROSKE (MAV ZRT)	Rozske (MAV ZRT) - Horgoš - Subotica	if applicable	
SENTA	Senta - Subotica freight station		
	Senta – Kikinda for both directi		
	Senta – Zrenjanin		
SMEDEREVO	Smederevo - Lapovo Marshalling Yard		
	Smederevo - Požarevac		
	Smederevo - Beograd Marshalling Yard ³⁾		
SOMBOR	Sombor - Subotica freight station	freight station	
	Sombor – Bogojevo		
		for both directions	
STALAĆ	Stalać - Kraljevo		
	-		



	Stalać - Kruševac	for both directions
SUBOTICA	Subotica freight station - Novi Sad Marshalling Yard	
FREIGHT STATION	Subotica freight station - Sombor	
	Subotica freight station-Horgoš - Roszke (MAV Zrt)	if applicable
	Subotica freight station-Subotica-Kelebia (MAV Zrt)	
	Subotica freight station – Senta	
STAMORA	Stamora Moravita (CFR SA) - Vršac	
MORAVITA (CFR SA)		
TABANOVCI (IŽRSM)	Tabanovci (IŽRSM) - Preševo	
TOVARNIK (HŽI) Tovarnik (HŽI) - Šid		
ÐENERAL	Traffic is temporarily regulated by	
JANKOVIĆ	UNMIK railways	
ŠABAC	ŠABAC Šabac - Ruma	
ŠID	Šid - Tovarnik (HŽI)	
	Šid - Ruma	

- 1) during permanent closure of part of the Stara Pazova Novi Sad, traffic of freight trains is organized by alternative transport way Beograd Marshalling Yard Pančevo Main st.- Tomaševac Novi Sad Marshalling Yard
- during permanent closure of part of the Jajinci Mala Krsna railway line, traffic of freight trains is organized by alternative transport way Beograd Marshalling Yard - Mladenovac - Velika Plana - Mala Krsna – Požarevac
- 3) during permanent closure of part of the Jajinci Mala Krsna railway line, traffic of freight trains is organized by alternative transport way Beograd Marshalling Yard Mladenovac Velika Plana Mala Krsna Smederevo
- 4) during permanent closure of part of the Crveni Krst Zaječar railway line, traffic of freight trains is organized by alternative transport way Zaječar Bor freight st. Požarevac Mala Krsna Velika Plana Niš Marshalling Yard
- 5) for trains in transit trough Belgrade Junction, that runs on Lapovo Marshalling Yard Ruma railway line
- 6) temporarily, during permanent closure of part of the Stara Pazova Novi Sad railway line, for freight trains in transit trough Belgrade Junction, that runs on Lapovo Marshalling Yard Pančevo Main st.
- 7) only for freight trains in transit trough Lapovo and Belgrade Junction, that runs on Lapovo Ruma railway line
- 8) temporarily, during permanent closure of part of the Stara Pazova Novi Sad railway line, for freight trains in transit trough Lapovo and Belgrade Junction, that runs on Lapovo Pančevo Main st. railway line
- 9) during permanent closure of part of the Indija Golubinci line, there is no organized traffic of freight trains
- 10) optionally, only for trains in transit trough Belgrade Junction, that runs on Pančevo Main st. Ruma railway line
- 11) temporarily, during permanent closure of part of the Stara Pazova Novi Sad railway line, for freight trains in transit trough Belgrade Junction, that runs on Pančevo Main st. Požega railway line
- 12) only for freight trains in transit trough Belgrade Junction, that runs on Požega Ruma railway line
- 13) temporarily, during permanent closure of part of the Stara Pazova Novi Sad railway line, for freight trains in transit trough Belgrade Junction, that runs on Požega Pančevo Main st., Lapovo Marshalling Yard Pančevo Main st. or Lapovo Pančevo Main st.

Passenger trains forming yards

All railway stations on the railway network on which passenger transport operations are taking place can be passenger train formation yards. For detailed information on the passenger train formation yards please contact IŽS.

"Infrastructure of Serbian Railways" JSC Traffic Department 6 Nemanjina Street 11000 Belgrade, Serbia

Tel.: +381 11 3618 214 Fax: +381 11 3616 814 sektor.sp@srbrail.rs



Overview of distribution stations-section for passengers trains operation

Distribution station	Distribution section	Comments
1	2	3
BEOGRAD CENTAR	Beograd Centar – Novi Sad ¹⁾	
	Beograd Centar - Ruma	
	Beograd Centar – Pančevo Main st.	
	Beograd Centar - Požega	
	Beograd Centar - Lapovo	
	Beograd Centar – Lapovo –Niš ²⁾	
	Beograd Centar – Požarevac ³⁾	
	Bijelo Polje (ЖИЦГ) - Vrbnica -	
BIJELO POLJE (ŽICG)	Prijepolje freight station	
	Bogojevo - Sombor	
BOGOJEVO	Bogojevo - Novi Sad	
	Bogojevo - Erdut (HŽI)	
VRŠAC	Vršac - Pančevo Main st.	
VRSAC	Vršac - Stamora Moravita (CFR SA)	
ERDUT (NŽI)	Erdut (NŽI) – Bogojevo	
DIMITROVGRAD	Dimitrovgrad – Niš	
JIMBOLIA (CFR SA)	Jimbolia (CFR SA) - Kikinda	if applicable
, ,	Zaječar – Niš ⁴⁾	11
ZAJEČAR	Zaječar - Prahovo pristanište	
	Zaječar – Požarevac	
ZVORNIK	Zvornik - Ruma	if applicable
ZVORVIII	Zrenjanin - Kikinda	п ирричино
	Zrenjanin - Novi Sad	if applicable
ZRENJANIN	Zrenjanin - Pančevo Main st.	if applicable
	Zrenjanin - Senta	паррпеавіс
KELEBIA (MAV ZRT)	Kelebia (MAV) - Subotica	
KELEDIA (WAV ZKI)	Kikinda - Jimbolia (CFR)	if applicable
KIKINDA	Kikinda - Zrenjanin	паррпсавіс
	Kikinda - Senta	
	Kraljevo - Kosovo Polje ⁵⁾	
	Kraljevo - Kosovo Folje Kraljevo - Lapovo	
KRALJEVO	Kraljevo - Lapovo Kraljevo - Požega	
	Kraljevo - Stalać	
	Kuršumlija - Kosovo Polje ⁶⁾	
KURŠUMLIJA	Kuršumlija - Kosovo Polje Kuršumlija - Niš	
	Lapovo - Kraljevo	
	Lapovo - Kraijevo Lapovo - Niš	
	Lapovo - Ris Lapovo - Beograd Centar	
LAPOVO	Lapovo - Beograd Centar Lapovo - Smederevo	
	Lapovo - Sincucievo Lapovo - Resavica	if applicable for both
	Lapovo - Resavica	directions
	Niš - Lapovo	
	Niš - Lapovo - Beograd Centar ²⁾	
	Niš - Preševo	
NIŠ	Niš - Dimitrovgrad	
	Niš – Zaječar ⁴⁾	
		1
	Niš - Kuršumlija	
	Niš - Kursumija Niš - Niš Marshalling Yard ⁷⁾ Novi Sad – Beograd Centar ¹⁾	



NOVI SAD PANČEVO MAIN STATION	Novi Sad - Subotica Novi Sad - Bogojevo Novi Sad - Vrbas Novi Sad - Zrenjanin Novi Sad - Pančevo Main st. Novi Sad - Ruma ⁸⁾ Pančevo Main st Zrenjanin Pančevo Main st Vršac Pančevo Main st Pančevo Vojlov. Pančevo Main st Beograd Centar Pančevo Main st Novi Sad	if applicable if applicable for both directions if applicable
POŽAREVAC	Požarevac - Lapovo Požarevac - Smederevo Požarevac - Zaječar Požarevac - Beograd Centar ³⁾	п аррисаоте
POŽEGA	Požega - Beograd Centar Požega - Kraljevo Požega - Prijepolje freight station Požega - Užice	for both directions
PRAHOVO PRISTANIŠTE PRIJEPOLJE FREIGHT STATION	Prahovo pristanište - Zaječar Prijepolje freight station - Vrbnica - Bijelo Polje (ŽICG) Prijepolje freight station - Požega	
PREŠEVO	Preševo - Niš Preševo – Tabanovci (IŽRSM)	
RUMA	Ruma - Šabac - Zvornik Ruma - Šid Ruma - Beograd Centar Ruma – Novi Sad ⁸⁾	
ROSZKE (MAV ZRT)	Roszke (MAV Zrt)-Horgoš- Subotica	if applicable
SENTA	Senta – Subotica Senta - Kikinda Senta - Zrenjanin	for both directions
SMEDEREVO	Smederevo - Lapovo Smederevo - Požarevac	
SOMBOR	Sombor - Subotica Sombor - Bogojevo Sombor - Vrbas	for both directions
STALAĆ	Stalać - Kraljevo Stalać - Jagodina	for both directions
STAMOR MORAVITA (CFR SA)	Stamora Moravita (CFR SA) - Vršac	
SUBOTICA	Subotica - Novi Sad Subotica - Senta Subotica - Sombor Subotica - Kelebia (MAV Zrt) Subotica - Horgoš - Roszke (MAV Zrt)	if applicable
TABANOVCI (IŽRSM)	Tabanovci (IŽRSM) - Preševo	
TOVARNIK (HŽI) Tovarnik (HŽI) - Šid		
ŠABAC		
ŠID	Šid - Ruma Šid – Tovarnik (HŽI)	

during permanent closure of part of the Stara Pazova – Novi Sad railway line there is no organized traffic of passenger trains

²⁾ for agency trains



- 3) during permanent closure of part of the Jajinci Mala Krsna railway line there is no organized traffic of passenger trains
- 4) during permanent closure of part of the Crveni Krst Zaječar railway line there is no organized traffic of passenger trains
- 5) to Zvečan, in both directiona
- 6) to Merdare, in both directions
- 7) for trains via station Crveni Krst or via Junction Most, in both directions
- 8) during permanent closure of the Stara Pazova Novi Sad railway line there is no organized traffic of passenger trains

3.6.4 Storage sidings

IŽS network has the capacities for storing of rolling stock. Rolling stock storing services are provided by the IŽS.

Storing of standard passenger train sets is usually carried out in departure stations for passenger service, on the tracks designated for that specific purpose.

Storing of DMUs, EMUs and locomotives is carried out in all depots for accommodation and storing of rolling stock of "Serbia Cargo" JSC and "Serbia Voz" JSC.

Storing of freight wagons is carried out mainly on special storage sidings for surplus freight wagons at marshalling yards and some other major stations.

IŽS is not responsible for any damage, which can occur on the rolling stock, that is, on the goods which is located in the stored wagons.

3.6.5 Maintenance facilities

There are rolling stock maintenance facilities on IŽS network, but the maintenance services are not provided by "Serbian Railways Infrastructure" JSC. Appendix 3.10. contains the details on the rolling stock maintenance facilities.

3.6.6 Other technical facilities including the cleaning and washing facilities

Wagon scales

The list of stations in which are located wagon scales is given in the Table 7.

Table No. 7: Wagon scales

No.	Station	Carrying Capacity (t)	Length of weigh bridge (m)	NOTE:
1	Sid	100	20	Wagon scale is electronic.
2	Novi Sad Marshalling Yard	100	20	Wagon scale is electronic.
3	Pancevo main st.	100	20	Wagon scale is electronic.
4	Vrsac	100	20	Wagon scale is electronic.
5	Zrenjanin Factory	100	20	Wagon scale is mechanic.
6	Subotica Freight St.	100	20	Wagon scale is electronic.
7	Sombor	100	20	Wagon scale is mechanic.
8	Nis Marshalling Yard	100	20	Wagon scale is electronic.
9	Pozega	100	20	Wagon scale is electronic.
10	Cacak	80	15.5	Wagon scale is electronic.
11	Lapovo Marshalling St.	100	20	Wagon scale is electronic.
12	Belgrade Marshalling Yard	100	18	Wagon scale is electronic.



13	Dimitrovgrad	100	20	Wagon scale is electronic.

Fixed installations for brake control

Fixed installations for brake control are located at Beograd Marshalling Yard.

Cleaning and washing facilities

IŽS does not have special facilities for cleaning and washing of railway vehicles. The type, volume and place of cleaning of railway vehicles for passenger service are determined by the railway undertaking.

Other technical facilities

- Ramps for loading and unloading of the load

"Serbian Railways Infrastructure" JSC will enable usage of the ramps for loading and unloading of the load to all railway undertakings on the non-discriminatory way and upon their request. The need for usage of the ramps for loading and unloading of the load must be shown by the railway undertakings' in the capacity allocation procedure.

- Ramps for loading and unloading of the accompanied vehicles

Loading/ unloading ramps for transport of accompanied vehicles are located in stations Topcider, Novi Sad, Subotica and Nis. In case of traffic interruption and need for unloading or reloading of the accompanied vehicles on the railway line (Belgrade) - Resnik - Vrbnica - State border, in railway stations/stops Valjevo, Požega, Užice freight and Prijepolje freight, there are ramps for reloading. The need for usage of the ramps for loading and unloading of the accompanied vehicles must be shown by the railway undertakings in the capacity allocation procedure.

- Loading gauge

Loading gauges are present at the following stations on the network: Novi Sad Marshalling Yard, Vrsac, Cacak, Pozega, Dimitrovgrad, Josanicka Banja and Kragujevac.

On IZS network there are more stations with loading gauge which are not in function currently. The correction of the list of loading gauges will be done upon putting malfunction loading gauges into the functional condition.

- Crane portal in Aleksinac

Transfer station of territory of IZS is Aleksinac. Mobile portable crane PD 86 with capacity up to 32 t is used for transhipment.

3.6.7 Inland waterways port facilities connected to railway activities

The following ports are connected to public railway network:

- Port area Belgrade

Operator: Port of Belgrade, www.lukabeograd.com

- Port area Novi Sad

Operator: DP World AD Novi Sad, www.lukanovisad.rs

NIS AD Novi Sad, www.nis.eu

Port area Smederevo

Operator: HBIS GROUP Serbia Iron & Steel d.o.o. Beograd, www.hbisserbia.rs

TOMI TRADE d.o.o. Smederevo, www.tomitrade.co.rs

NIS AD Novi Sad, <u>www.nis.eu</u> Mitan Oil d.o.o, <u>mitanoil.rs</u>

- Port area Pančevo

Operator: Port "Dunav" AD Pančevo

NIS AD Novi Sad, www.nis.eu

Granexport d.o.o.www.granexport.rs

Special port d.o.o.



- Port area Prahovo

Operator: PD Elixir Prahovo, https://www.elixirprahovo.rs

NIS AD Novi Sad, www.nis.eu

Port area Senta

Operator: Port Senta A.D., www.luka-senta.rs

Port area Sremska Mitrovica

Operator: RTC Port Leget AD, https://www.leget.rs

Port area Šabac

Operator: PD Elixir Zorka, https://www.elixirzorka.rs

Information on these ports operators can be found on their websites.

3.6.8 Facilities for provision of assistance

IŽS has on its disposal a mobile facility for provision of assistance – auxiliary train. Its use is enabled upon a special request. More detailed information are provided in para 5.3.8 of this document.

3.6.9 Refueling facilities

There are refueling facilities on IŽS network, and details about refueling facilities can be found in point 5.3.9.

3.7 **Infrastructure development projects**

Railway infrastructure, which is managed by IŽS, is constantly being renewed and modernized, in order to enable to the users the best possible service quality.

Development projects of the infrastructure are defined within Strategic plan of IŽS (Decision of the Assembly of Joint stock company for public railway infrastructure management "Infrastructure of Serbian Railways" JSC, Belgrade no. 5/2017-116-49 from June 29, 2017)", which is prepared on the base of the National program of the infrastructure ("The Official Gazette of RS", no. 53/17). Development of the railway infrastructure is directed towards the modernization of the lines which are part of the Pan-European corridor.

Possibility of the realization of the planned works depend upon the amount of the financial means, which are provided from the state budget of the Republic of Serbia and from the amount provided from the other sources of financing.

Appendix 3.11. contains a list of development projects.



4. PRINCIPLES, PRIORITIES AND CRITERIA FOR ALLOCATION OF INFRASTRUCTURE CAPACITY

4.1 Introduction

Pursuant to the Law on Railways and decision of the Government of the Republic of Serbia, "Infrastructure of Serbian Railways" JSC performs the activities of public railway infrastructure management, it is responsible for allocation of infrastructure capacities for the purposes of international and domestic transport in a transparent and non-discriminatory manner, provided that all legal provisions on the conditions for access and use of railway infrastructure set out in Chapter 2 of this Network Statement have been previously fulfilled.

4.2. Description of infrastructure capacity allocation procedure

The Infrastructure Manager normally allocates the train paths once a year, upon reconciling the train path allocation requests in the timetabling process, not exceeding the Timetable validity period.

Allocation of infrastructure capacities in the form of a train path is carried out in accordance with the procedures specified in this document for:

- infrastructure capacities allocation procedure for the new Timetable,
- infrastructure capacities allocation procedure during Timetable validity period (including train path allocation on ad hoc request).

A Railway Undertaking may not assign the allocated train path to another Railway Undertaking. Train path trading is prohibited. Train path user will pay a charge for the use of railway infrastructure and for railway traffic organization and control.

The Government of the Republic of Serbia sets out the Methodology for valuation of elements for determining the charges for the use of railway infrastructure. The Decree on methodology for valuation of elements for determining the charges for the use of railway infrastructure is published in the "Official Gazette of RS" No 122/14. For additional services, a train path user will pay a charge in accordance with the Infrastructure Manager's formal decision.

How to apply?

Request for infrastructure capacity allocation can be submitted by railway undertakings using the train path request form, which is available in Appendix 4.1, and published on IŽS website: www.infrazs.rs.

Requests are submitted according to procedures defined under section 4.3.

The request should contain the following data:

- Full registered name of the Railway Undertaking (TIN, company identification number),
- Train type (for passenger transport, freight, empty, locomotive, and similar),
- The desired time of train departure from the departure station and the time of train arrival to the terminal station,
- Traffic route and transport route,
- Necessary stops with minimum lengths of delays,
- Traffic period and days (traffic calendar),
- Series and number of wagons/series and number of train units,
- Train length and mass (length in meters, mass in tons),
- Type and serial number of the traction vehicle (traction passport),



- Additional locomotives (type and serial number) and on which section,
- Maximum train speed,
- Braking type,
- Special notes, such as vehicle shunting, change in train composition, implementation of connections, crew change, type of intermodal transport unit, type of dangerous goods (UN number, number for marking of danger or, for Class 1 dangerous goods, the subclass and compatibility group for substances and items, NHM code with minimum 6 digits and the name of dangerous goods based on RID), exceptional consignments, handover procedures on border crossings, technical hold ups (inspection, water supply, removing of waste and similar) and the required time period, the need for additional track capacities (storing, preheating/cooling, train formation and similar), the need for access to other facilities for provision of additional services and similar.

Upon the request of IŽS, a Railway Undertaking will be required to provide all the missing data within five working days, otherwise the request for capacity allocation will not be considered as submitted.

A request for capacity allocation submitted to IŽS on time and containing all the necessary elements makes a basis for timetabling and train path allocation. If a Railway Undertaking changes the request completely or partially after the determined deadlines for request submission it assumes the risk of not having the request granted.

After the annual timetable drafting process has been completed, the remaining available capacities will be allocated according to the deadlines defined in Appendix 4.3 according to the sequence of request submission.

Manner of capacity allocation

IŽS decides on capacity allocation taking into account all legally valid requests and legal provisions in force. In accordance with the Law on Railways, the procedures and deadlines in capacity allocation have been determined under point 4.3 of the present Network Statement.

Defining of procedures and deadlines in capacity allocation is harmonized with Directive 2012/34/EU and its appendices, RNE recommendations from "Procedures for International Path Requests" and Rulebook on time schedule for railway infrastructure capacity allocation ("Official Gazette of RS", No 140/14).

Relevant bodies involved in the capacity allocation process and their responsibility

Bodies participating in capacity allocation process:

- IŽS "Infrastructure of Serbian Railways" JSC as Infrastructure Manager and capacity allocation body
- Railway Undertakings railway undertakings submitting capacity allocation requests
- RNE RailNetEurope body coordinating the allocation of international train paths and determining processes and deadlines for submission of international train path requests
- FTE ForumTrainEurope European organization of railway undertakings representing the European Forum for technical planning of international passenger and freight transport.

IŽS, as Infrastructure Manager and capacity allocation body, is a member of RNE and is actively involved in the activities of FTE.

4.3 Schedule for path requests and allocation process

Each year IŽS prepares a schedule for path request submission and capacity allocation which is applied in the annual timetabling process and in the capacity allocation process outside the annual timetabling process published in the Network Statement.



Railway Undertakings allocation requests for the new Timetable and during Timetable validity period should be submitted in the form defined in Appendix 4.1, to the following address:

By mail, to the following address:
"Infrastructure of Serbian Railways" JSC
Department for access to railway infrastructure
6, Nemanjina St
11000 Belgrade, Serbia
By e-mail: sektor.pzi@srbrail.rs

4.3.1 Schedule of requests submission for new annual timetabling process

The Applicant (Railway Undertaking) submits a request for capacity allocation not later than 12 months before the new Timetable enters into force. Deadlines for requests submission regarding Timetable 2020/2021 which enters into force on December 13th 2020 with validity until December 11th 2021 are presented in Appendix 4.3.

4.3.2 Schedule of requests submission for train path allocation during annual Timetable validity period

For the needs of Railway Undertakings wishing to use additional capacities or to change parametres of already allocated train paths, the new capacity allocation during Timetable validity period is enabled by:

- Regular amendments of and supplements to the Timetable
- Special amendments of and supplements to the Timetable
- Train path allocation on ad hoc request

In the form defined by Articles 4.3.2.1 and 4.3.2.2 in this Network Statement.

4.3.2.1 Schedule of requests submission for train path allocation during annual Timetable validity period trough regular and special amendments of and supplements to the Timetable

During the Timetable validity period, there are regular amendments of and supplements to the Timetable 5 times a year, in accordance with internationally determined terms which are presented in Appendix 4.4. Deadlines for submission of requests for capacity allocation are presented in the column 1, Appendix 4.4.

Requests for regular amendments of and supplements to the Timetable that are submitted after deadlines specified in the column 1, Appendix 4.4, will be considered as special requests and shall be included in regular amendments of and supplements to only in case of existence of available infrastructure capacities and technical possibilities for their processing.

After the 5th regular amendments of and supplements to the 2020/2021 Timetable enter into force it will be only possible to submit ad hoc requests for capacity allocation.

Besides regular amendments of and supplements to the Timetable in accordance to the terms specified in the column 3, Appendix 4.4, Railway Undertakings may submit special request for infrastructure capacity allocation outside specified terms. If there is possibility for allocation of the requested capacities, consequent changes in the Timetable shall be considered as special amendments of and supplements to the Timetable.

4.3.2.2 Allocation of capacities during annual Timetable validity period on ad hoc request

Ad hoc requests for infrastructure capacity allocation are requests for allocation of single train path, which are submitted during annual Timetable validity period.

Infrastructure Manager is obliged to respond to ad hoc requests as soon as possible and not later than five working days upon receiving the request.



4.3.2.3 Transport of exceptional consignments

Deadline for submission of request for transport of exceptional consignments is not later than 15 days prior to service provision.

Depending on the type of exceptional consignment, request processing may require either a longer or shorter period for processing and for this reason railway undertakings should consult IŽS on the possibility of consignment transport and accordingly submit a request on time. Detailed information can be obtained at the below address. Deadline for capacity allocation will be as soon as possible. IŽS will decide whether it is possible to accept a certain transport and under which conditions.

Requests are submitted:

By mail:

"Infrastructure of Serbian Railways" JSC Traffic Department 6, Nemanjina St 11000 Belgrade, Serbia

Tel.: +381 11 3618 214 Fax: +381 11 3616 814 E-mail: sektor.sp@srbrail.rs

4.4 Allocation process (of train path)

IŽS will allocate the infrastructure capacity if the applicant fulfils the conditions for capacity allocation set out in the Network Statement and if the infrastructure capacity allows such allocation. IŽS will act in such a manner so as not to favour any applicant.

The following criteria will be applied in the path allocation process:

- Volume of service:
- Utilization of railway infrastructure;
- Volume of additional services provided by the IM in connection with the transport provided on the path;
- Business reputation;
- Public service obligation; and
- Quality of performed transport service in the previous period.

After the final deadline for submission of requests for the annual timetabling has expired, IŽS will initiate the capacity allocation process in a transparent and non-discriminatory manner. Requests obtained after the final deadline for request submission will not be considered.

Requests for capacity allocation received after the annual timetable drafting cannot affect draft alteration, except with the consent of the Railway Undertaking to whom the capacity has been originally allocated.

Allocated capacity can be used upon conclusion of Access Contract between IŽS and the Railway Undertaking submitting a request for capacity allocation.

Allocated capacity cannot be transferred onto another Railway Undertaking in accordance with the Law on Railways.

4.4.1 Coordination process

Every year at the beginning of the new annual timetabling process, IŽS will conduct consultations with railway undertakings on their plans for the timetable which will come into force in not less than 11 months (x-11). In the course of these consultations, IŽS will inform railway undertakings on major maintenance works, overhaul and modernization of railway infrastructure.



The coordination process is run by IŽS – Department for access to railway infrastructure, which is preparing and publishing the annual Timetable and preparing of all required working materials.

Upon the expiry of the final deadline for submission of requests for capacity allocation for the annual Timetable, IŽS – Department for access to railway infrastructure will start the coordination process, together with railway undertakings for the purposes of solving conflicting requests and their better harmonization, aiming to fulfil the needs of users as much as possible in a non-discriminatory and transparent way.

Timetable planning includes reviewing all received requests, including all restrictions imposed by IŽS and the scheduled infrastructure maintenance plans.

If the number of requests for allocation of the same infrastructure capacity exceeds the permitted capacity of the particular railway line, IŽS apply priority rules from 4.4.3.

Following the completion of the coordination procedure, IŽS will deliver the draft timetable to railway undertakings. Together with railway undertakings IŽS will perform the final consultations concerning the draft timetable. Railway undertakings must state, in written form, whether they accept, partially or completely, that is, do not accept, the Timetable.

Deadline for making the statement is one month from the day of the draft submission, at the latest.

After the expiry of the deadline for making the statement, IŽS will define the Timetable according to the requests submitted on time and it will be deemed that the train paths have been allocated.

IŽS will subsequently allocate the remaining available capacities according to requests received after the final deadline, in the order of their receipt.

4.4.2 Dispute resolution

IŽS will initiate the dispute resolution process upon delivery of written complaints by railway undertakings, relating to complete or partial acceptance/non-acceptance of the proposed Timetable.

Complaints are to be addressed to IŽS:

- By mail, to the following address:
- "Infrastructure of Serbian Railways" JSC

Department for access to railway infrastructure

6, Nemanjina St

11000 Belgrade, Serbia

- By e-mail: sektor.pzi@srbrail.rs

IŽS will evaluate all complaints and objections and conduct consultations with railway undertakings aiming to fulfil their requests.

If a mutual solution is not found, IŽS will determine the capacity and inform the railway undertakings of this. If after the request coordination it is still not possible to satisfy all the requests for capacity allocation, IŽS will be obliged to announce that the said line section is congested.

Railway undertakings can appeal to the Directorate for Railways with respect to IŽS decision.

A potential appeal of a Railway Undertaking cannot be the reason to delay the process of Timetable adoption and coming into force.

4.4.3 "Congested" Infrastructure

If in the coordination process IŽS is unable to adequately satisfy all railway undertaking requests due to capacity limitations, IŽS will declare the requested infrastructure capacity to be "congested".



In cases when IŽS declares infrastructure "congested", it will conduct an analysis of capacities on congested infrastructure and define limitations due to which it was not possible to satisfy capacity allocation requests as well as propose a plan to enhance the particular capacity.

Infrastructure capacity will not be considered congested if the infrastructure capacity cannot be allocated due to the execution of works on the infrastructure maintenance, modernization, construction and reconstruction.

If the number of requests for allocation of the same infrastructure capacity exceeds the permitted capacity of a specific railway line, and if congested infrastructure is declared regarding that line, i.e. the part of that line, IŽS will, in an effort to allocate the train paths, apply priority rules according to the following order:

- 1) BG: VOZ
- 2) passenger trains in international traffic
- 3) passenger trains in domestic traffic
- 4) international freight trains
- 5) other freight trains

Considering the above mentioned priorities, the train path allocation process will be carried out according to the following rules:

- Requests for train paths of regular trains have the priority over the requests for train paths of special trains and trains transporting exceptional consignments;
- Requests for train paths according to framework agreements have the priority over new requests;
- Requests for train paths for a longer time period of service have the priority over requests for train paths for a shorter time period;
- Requests for train paths for a longer route have the priority over train paths for a shorter route.

If a Railway Undertaking considers that its rights were withheld, it can appeal to the Directorate for Railways.

4.4.4. Impact of framework agreements

"Infrastructure of Serbian Railways" is currently not concluding framework agreements with interested applicants for allocation of infrastructure capacities.

4.5 Allocation of capacity for maintenance, including the allocation process

Allocation of infrastructure capacities for maintenance, renewal and modernization of railway infrastructure is an integral part of capacity allocation process. Aiming at maintaining a certain level of quality, safety and reliability of railway infrastructure, IŽS — Department for access to railway infrastructure will, during the timetabling process, reserve a part of infrastructure capacities for scheduled railway infrastructure maintenance, for specific time periods and specific line sections.

Periods reserved for scheduled railway infrastructure maintenance are published in the Timetable Booklet.

4.6 Cancellation rules / Non-usage of allocated train path

4.6.1 Non-usage of allocated train path

In cases when a Railway Undertaking is not using the allocated train path envisaged by the Timetable, IŽS will, depending upon the non-usage percentage, charge the reservation of train path, that is, IŽS will cancel the allocated train path.

IŽS is monitoring the realization of allocated train paths, in such a way that IŽS is calculating the train path utilization degree for all the allocated train paths.



The utilization degree is calculated by dividing the realized train path number of one train with the allocated train path number of the same train, and the result is shown in percentages.

The degree of utilization of allocated train paths is calculated monthly, for the calendar month.

IŽS reserves the right to cancel the allocated train path if a train path is utilized less than 25% of the monthly quota, that is, less than 50% of the monthly quota in case of congested infrastructure.

For the allocated train paths where the degree of utilization is less than the borderline degree of utilization, IŽS will charge the non-usage of the capacity.

The borderline degree of utilization, according to the type of the trains, is given in the below table 8.

Table No 8. Borderline degree of utilization

Train type	Borderline degree of utilization [%]
Passenger trains	80
Freight trains	40
Circuit-working and industrial trains	20
Locomotive and facultative trains	10

Facultative train is a train which uses the train path, allocated according to the annual request or extraordinary request for amendment of the Timetable, as necessary and in respect of which the borderline utilization degree is 10%.

Requests for train paths for all other trains will have priority over the request for train paths for facultative trains.

Infrastructure Manager will not grant facultative train paths on congested infrastructure.

In cases when the degree of utilization of the train path is below the borderline degree of utilization, the Infrastructure Manger will charge the full price of the train path for the used train paths, and for the non-used train paths, which represent the difference between the borderline degree of utilization and the degree of utilization of one train path, IM will charge for the reservation of the train path.

The charge for the reservation is 20% of the agreed train path price.

If the train path is not used in its entirety, as agreed in contract, the full price of the train path will be charged, according to the required elements.

4.6.2. Train path cancellation rules

A Railway Undertaking may cancel the allocated train path in the following deadlines:

- 30 days prior to service provision without charge,
- from 30 days up to 7 days prior to service provision with payment of 10% of the charge for the entire train path,
- less than 7 days prior to service provision with payment of the full charge for the entire train path.

Cancellation of allocated train path is done in writing, to the following address:



- By mail:

"Infrastructure of Serbian Railways" JSC

Department for access to the railway infrastructure

6, Nemanjina St

11000 Belgrade, Serbia

- By e-mail: sektor.pzi@srbrail.rs

A cancelled train path is also the one which has not been used by the Railway Undertaking and which had not been cancelled by the Railway Undertaking in the above mentioned manner. In such case, the full charge for the entire train path will be charged.

Cancelled train paths can be allocated to other railway undertakings by IŽS.

4.7. Exceptional transports and dangerous goods

4.7.1. Exceptional transports

Transport of exceptional consignments is transport in the course of which there is a deviation from at least one technical standard applied on the given infrastructure, such as for example, axle load, railway vehicle gauge, loading gauge and similar. Taking into account all the elements required for the transport of an exceptional consignment, IŽS will decide whether the requested infrastructure capacity will be allocated and under what conditions.

Allocation of capacities for the transport of exceptional consignments is carried out according to process described under 4.3.2.

In their request for capacity allocation, railway undertakings are required to list all the necessary information on the exceptional consignment which is being transported, regardless of whether it is a capacity allocation process for the annual Timetable or an ad hoc capacity allocation.

Further information can be obtained at the following address:

"Infrastructure of Serbian Railways" JSC
Traffic Department
6, Nemanjina St
11000 Belgrade, Serbia

- by e-mail: sektor.sp@srbrail.rs

4.7.2. Dangerous goods transport

Dangerous goods transport on railway infrastructure operated by IŽS is regulated by international and national regulations in the field of dangerous goods transport, in accordance with point 2.7 of the Network Statement.

Based on clauses 1.4.2.2.5 and 1.4.3.6 of *RID* and Article 23, para 4, item 2) and Article 29 para 2 of the Law on Transport of Dangerous Goods, a Railway Undertaking is obliged to report every consignment of dangerous goods to railway Infrastructure Manager.

Reporting of dangerous goods transport can be done by phone: +381 11 3618 288 and in writing to the below address. The below address can be also used for more detailed information:

"Infrastructure of Serbian Railways" JSC 6, Nemanjina St, 11000 Belgrade Central Operations Unit Main dispatcher for dangerous goods transport

Tel.: +381 11 3618 288

E-mail: rid1@srbrail.rs; glavni.riddisp@srbrail.rs



For the purposes of safe transport of dangerous goods on IŽS network, a Railway Undertaking is obliged to:

- Report each transport of dangerous goods consignment in real time i.e. immediately before the commencement of transport or at acceptance from the successive carrier.
- Report completion of transport of dangerous goods consignment in real time i.e. at the moment of
 completion of transport after the completed handover of consignment to the consignee at the
 destination station or upon handover of consignment to successive carrier.

Railway Undertakings are responsible for obtaining appropriate consents regarding the safety of dangerous goods transport.

Pursuant to clauses 1.4.2.3.1 of *RID* and Article 24 para 2 item 1) of the Law on Transport of Dangerous Goods, the consignee of dangerous goods in railway transport is obliged not to postpone the acceptance of dangerous goods consignment which is resulting in the railway undertaking's obligation not to postpone the handover of dangerous goods consignment after having performed the transport service.

Railway Undertaking is obliged to, after having accepted the dangerous goods consignment for transport at the forwarding station, immediately start the process of transporting the said consignment without any additional delays at the station, except for traffic reasons, accident or incident etc. Phased collecting of wagons loaded with dangerous goods (and non-cleaned empty wagons which were previously loaded with dangerous goods) in the forwarding station for the purposes of subsequent dispatching is prohibited due to the safety in transport of dangerous goods. The process of transport of dangerous goods (acceptance of consignment for transport from the consignor, dispatching, transport and handover of consignment to the consignee) must be performed in accordance with the technologically specified time in order to avoid the potential safety risks in transport.

After the customs clearing of consignment, it is exceptionally permitted for the consignment to remain on station sidings but only for a time period which is necessary to organize the dispatching and continuing of planned transport route, or handover to the consignee in accordance with the specified technological process for station operation i.e. Station Regulations, Part II.

Obligation to announce the transport of dangerous goods Class 1 and Class 7

Exceptionally in transport of dangerous goods Class 1 and Class 7, a Railway Undertaking is obliged to submit to the Infrastructure Manager, in writing (Central Operational Unit – Main dispatcher for transport of dangerous goods) an announcement for the said transport in the time period which is not less than 24 hours prior to the moment of acceptance for transport (entry onto IŽS network). Railway Undertaking may send the announcement of transport also in the form of an email with scanned documents to the following address: rid1@srbrail.rs.

The announcement should contain the following data and attachments:

- 1. Consignor
- 2. Forwarding station and country
- 3. Consignee
- 4. Destination station and country
- 5. Entry border station
- 6. Exit border station
- 7. Net quantity of dangerous goods and wagon number in the train loaded with dangerous goods
- 8. Name of goods (official name of the goods)
- 9. UN number, number for marking of danger (all, if there are several)
- 10. Data on persons hired according to the Decision of the Ministry of the Interior of the Republic of Serbia in the capacity of armed company (first and last name, ID document number, etc., from the Decision issued by the Ministry of the Interior of RS)
- 11. Buffer wagon
- 12. Number of the decision on transport and name of issuing state authority.

The announcement should also contain two appendices:



- Photocopy of the Decision on transport issued by a relevant state authority, and
- For Class 1 dangerous goods: Instructions on special safety measures (MSDS lists) from the manufacturer of Class 1 dangerous goods;
- For Class 7: instructions on measures that the Railway Undertaking should take in transport, restrictions and required data on planned transport route as well as measures in case of danger that are adequate in relation to the consignment in accordance with RID 5.4.1.2.5.2.

Permit for transport of Class 1 dangerous goods is issued by the ministry responsible for the interior affairs, and permit for transport of Class 7 dangerous goods is issued by the authority responsible for protection against ionizing radiation and nuclear safety in the Republic of Serbia (Article 7 of the Law on Transport of Dangerous Goods). The announcement of transport should also contain the basic data on the Railway Undertaking and the transport organizer if case of irregularities or emergency events in transport of dangerous goods. In terms of data it is mandatory to specify the first name, last name and mobile phone number of the person (employed with the Railway Undertaking and/or transport organizer) who is always available during the transport.

Allocation of capacities for transport of dangerous goods is performed according to the process defined under 4.3.

4.8. Special measures to be taken in the event of disturbance

In case of traffic disturbances, IŽS, together with Railway Undertakings, will undertake all necessary measures to restore normal operating conditions as soon as possible.

Traffic disturbance will mean congesting of some parts of the network or stations that may occur as a consequence of disturbances occurring in traffic due to any reason.

4.8.1. Principles

In order to solve the traffic disturbances, IŽS will undertake appropriate measures to restore the planned Timetable, while taking into consideration the needs of passengers and users of freight traffic, as well as traffic safety. Aiming to solve the traffic disturbances, IŽS may apply operation rules under 4.8.2., cancel some trains or assign another train path in agreement with a Railway Undertaking, depending on the type of disturbance and expected duration.

In case a longer traffic disruption is expected, IŽS will, in agreement with railway undertakings, prepare an interim timetable for the period until regular operation is restored. IŽS may seek railway undertakings' assistance with the aim of normalizing the traffic operating conditions, even when such railway undertakings are not directly causing the disturbances, which may include using their rolling stock and personnel in order to normalize the traffic.

4.8.2. Operational regulation

For the purposes of restoring the normal traffic flow, the operational rules for railway traffic management will apply as set out in the Law on Safety in Railway Traffic, Traffic Regulations (2), the Instructions on organization and work procedures of operational service in the area covered by "Infrastructure of Serbian Railways" JSC ("Official Gazette of Serbian Railways" No 21/17, 21/18 and 37/18) and other internal documents of IŽS.

In cases when traffic is interrupted on some part of the line due to a defect in the traction means of the RU in order to normalize traffic as soon as possible the IZS operational servise takes operational measures prescribed by article 34 of the internal act Instructions on organization and work procedures of operational service in the area covered by "Infrastructure of Serbian Railways" JSC ("Official Gazette of Serbian Railways" No 21/17, 21/18 and 37/18).

In case of delays and premature train dispatches, the rule applies that lower-ranking trains may not interfere with movements of higher-ranking trains. A lower-ranking train can be given the priority only if in such a



way increase in delays is avoided and the higher-ranking train can make up for the delay on its further route. With same rank trains, priority is given to that train whereof delay might cause it to lose connections in connecting stations. If the connections are not in question, priority is given to that train which has a longer route to its destination station, i.e. which is running on time. Necessary measures to be taken in case of accidents and incidents are defined in the Law on Safety in Railway Traffic, by the Regulations on investigating, recording, statistical monitoring and publishing of data on accidents and incidents ("Official Gazette of RS" No 4/16), Instructions on procedures in case of accidents and incidents (79) and Instructions on procedures in case of accidents and incidents in the area of "Infrastructure of Serbian Railways" JSC ("Official Gazette of ŽS" 52/18). Trains which are taking part in rectifying the disturbances caused as a result of accidents and incidents have the priority (ranking) over all other trains.

4.8.3. Foreseen problems

Necessary measures to be undertaken in cases of foreseen problems such as: technical disturbances of signalling & safety and telecommunication devices, strong wind, natural disasters, snow etc., are governed by Traffic Regulations (2) and other regulations governing the above mentioned.

4.8.4. Unforeseen problems

In very urgent cases, when railway infrastructure is temporarily rendered unavailable for use, IŽS may, without prior notice, cancel train paths for the time period necessary to put the system back in working order. IŽS will notify all interested parties of the resulting situation.

4.9. Allocation of capacity for service facilities

Railway Undertakings can submit requests to "Infrastructure of Serbian Railways" JSC for the use of only those facilities that are operated by IŽS on ownership basis.

Railway Undertakings can submit requests for the use of services facilities as follows:

- within requests for the train path;
- with special written request addressed to:

"Infrastructure of Serbian Railways" JSC
Department for access to the railway infrastructure
6 Nemanjina St
11000 Belgrade, Serbia
By e-mail: sektor.pzi@srbrail.rs

Requests for the use of facilities not operated by IŽS are to be submitted to legal persons who are the owners of such facilities.



5. TYPES OF SERVICES

5.1 Introduction

Serbian legislation defined four types of services which railway undertakings can use with the aim of performing of transport operations on the allocated infrastructure capacity.

Categories of services offered by "Infrastructure of Serbian Railways" JSC to railway undertakings on the network are in line with the provisions of the Law on Railways and defined by the following documents:

- Decision on establishing of Joint Stock Company for Public Railway Infrastructure Management ("Official Gazette of RS" No 60/2015);
- Rulebook on organization and systematization of jobs at Joint Stock Company for Public Railway Infrastructure Management "Infrastructure of Serbian Railways";
- Methodology for valuation of elements for determining the charges for the use of railway infrastructure ("Official Gazette of RS" No 122/14).

The services that can be provided to railway undertakings are the following ones:

- 1. Minimum access package of services (hereinafter: the minimum package of services);
- 2. Basic services in services facilities including the access tracks to such facilities;
- 3. Additional services; and
- 4. Ancillary services.

Until the Government determines the Methodology for determining the price for access and the price for services and, based on it, the specific rules for calculation of the price for access and the price for services provided by the Infrastructure Manager, "Infrastructure of Serbian Railways" will apply the valid Methodology for valuation of elements for determining the charges for the use of railway infrastructure ("Official Gazette of RS" No 122/14), and according to this Methodology, where necessary, classification to the following service categories:

- category I: minimum package of services
- category IIa: package for track access to service facilities
- category IIb: package for provision of services in service facilities
- category III: package for additional services
- category IV: package for ancillary services

IM – "Infrastructure of Serbian Railways" JSC will enable all interested railway undertakings to use the minimum access package of services and track access to services facilities, in a non-discriminatory manner, provided that railway undertakings have fulfilled the requirements for rail transport service in accordance with the provisions of the Law on Railways and the signed Contract for the use of railway infrastructure. Railway Undertaking's requests for the use of facilities and services provided in such facilities may be rejected only if there are realistic alternatives under market conditions. According to the nature of distinction and type of activity, the former notion of service facility can be aligned with the notion of services facility in the entire text.

The use of all services facilities, additional and ancillary services provided by the IM – "Infrastructure of Serbian Railways" JSC - will be enabled to all railway undertakings in a non-discriminatory manner and upon their request, and will be defined in a separate contract.

The use of services facilities not owned by the IM – "Infrastructure of Serbian Railways" JSC, as well as additional and ancillary services not provided by the IM – "Infrastructure of Serbian Railways" JSC, is subject to separate contracts with managers of the said facilities and service providers.

Based on the volume of services provided, as defined in items 5.2 to 5.5, Railway Undertaking pays a price for access and a price for the provided service to:



- "Infrastructure of Serbian Railways" JSC based on the Contract for the use of railway infrastructure and separate contracts;
- "Srbija Voz" JSC based on separate contracts;
- "Srbija Kargo" JSC based on separate contracts;
- Other service providers based on separate contracts.

5.2 Minimum package of services

Within the minimum package of services for the use of railway infrastructure, IŽS provides the following services:

- Handling of requests for capacity allocation;
- Right to use the allocated capacity;
- Use of infrastructure on the main running track (turnouts, tracks, railway nodes and lines),
- Train control including signalling, regulation of train movements, acceptance and dispatching of trains and communication regarding the train operations and provision of information on train movements;
- Use of electrical supply equipment, where available;
- Provision of all other information to implement or operate the service for which the capacity has been granted.

The access price includes the minimum access package of services. Railway Undertaking will pay an access price to "Infrastructure of Serbian Railways" JSC based on the Contract for the use of public railway infrastructure. The calculation method and the level of prices for the minimum package of services are presented in Chapter 6 of this document.

5.2.1. Handling of requests for infrastructure capacity

Handling of requests for infrastructure capacity allocation is a part of the capacity allocation process described in Chapter 4. Principles, priorities and criteria for allocation of infrastructure capacity. Requests for infrastructure capacity allocation which have been submitted by railway undertakings are processed in mutual cooperation with railway undertakings, implementation possibilities are examined, contradictions resolved and the train path offer is prepared, which ultimately results in a Timetable.

5.2.2. Right to use the allocated capacity

Provided that all necessary prerequisites for the train operation are in line with valid legal provisions on conditions for access to and use of railway infrastructure specified in Chapter 2 of the present Network Statement, the applicable legislation and the signed Contract for the use of railway infrastructure, Railway Undertaking is entitled to use the allocated capacity in the form of a train path.

5.2.3. Use of infrastructure on main running track (turnouts, tracks, railway nodes and lines)

Use of infrastructure on main running track (turnouts, tracks, railway nodes and lines) on the allocated capacity enables the Railway Undertaking to perform train operations.

5.2.4. Train control including signalling, regulation of train movements, acceptance and dispatching of trains and communication regarding the train operations and provision of information on train movements

Overall train traffic management, including signalling, train movement regulation, acceptance and dispatching of trains, communication regarding the train operations and provision of information on train movements using the telecommunication devices enables railway undertakings to perform train operations on the allocated train path.



5.2.5 Use of electrical supply equipment

On its electrified railway lines IŽS enables a Railway Undertaking to use the electrical supply equipment for traction (without electricity).

5.2.6. All other information to implement or operate the service for which the capacity has been granted

After the Timetable has been adopted and published, railway undertakings will be provided with all additional information required for the train operations within the minimum access package of services.

5.3 Access to services facilities and provision of basic services

Services facilities for provision of basic services include:

- 1) Station buildings, i.e. the part of station buildings and other facilities used for passenger traffic including travel information displays and adequate location for ticketing services;
- 2) Freight terminals;
- 3) Marshalling yards and train formation tracks including the shunting tracks;
- 4) Storage sidings intended for the rolling stock of railway undertakings used on the allocated infrastructure capacity;
- 5) Maintenance facilities, except for maintenance facilities dedicated to high speed trains or other types of rolling stock requiring specific facilities where the works performed are not a routine daily maintenance and require the vehicle to be withdrawn from service;
- 6) Other technical facilities including cleaning and washing facilities;
- 7) Inland port facilities which are connected to railway activities;
- 8) Relief facilities;
- 9) Facilities for storing and refueling in respect of which the prices are quoted separately.

IŽS will enable all the railway undertakings with minimum access package of services to have track access to all the above mentioned services facilities in a non-discriminatory manner and upon their request, provided that railway undertakings have previously entered into a contract on the use of these facilities with facility managers and service providers.

IŽS will enable all railway undertakings, which have been granted the minimum access package of services for the use of infrastructure, to use all the services facilities managed by it in a non-discriminatory manner and upon their request.

In order to use the above mentioned services facilities railway undertakings will conclude a contract with "Infrastructure of Serbian Railways" JSC and "Srbija Kargo" JSC, i.e. with the provider of the service in question.

Railway undertakings have to state the need to have track access to service facilities and to use them during the capacity allocation procedure, please refer to Chapter 4.

For the service of track access to service facilities, Railway Undertaking will be obliged to pay a charge to the IŽS based on the Contract for the use of infrastructure. The methodology for calculation as well as the level of the charge for such services are described in Chapter 6 of this document.

5.3.1 Use of services facilities

5.3.1.1 Basic service - use of station buildings for passenger traffic

"Infrastructure of Serbian Railways" will enable the use of station buildings, i.e. the part of station buildings, in passenger stations in the areas intended for railway passengers and of other facilities used for passenger traffic, including the travel information display and adequate location for ticketing services to all railway undertakings in a non-discriminatory manner and upon their request.



The use of parts of service points (station buildings, stops) and other facilities required for acceptance and dispatching of passengers also includes use of platforms and other surfaces required for access of passengers in them, as well as other areas enabling passenger movements between public road surfaces and the train.

The use of travel information displays includes the use of all existing visual information facilities already installed in individual stations.

Upon request of a Railway Undertaking IŽS will, where possible, provide a suitable area for the ticketing services.

5.3.1.2 Basic services in freight terminals

IŽS does not operate nor provide services in any freight terminal within the meaning of its definition of an arranged and organized area where the receiving, storage, preparation, transhipment and dispatching of various types of goods is carried out. The freight terminal service providers within this meaning are listed in paragraph 3 and paragraph 8 of point 3.7 of this document.

IŽS does not have the information on the services facility which, according to Article 18 of the Law on Railways, the freight terminal operator is obliged to publish and for more detailed information on the services provided by the freight terminal operator or the service provider, the following entities should be contacted:

1) Železnički integralni transport Beograd - ŽIT BEOGRAD d.o.o.

Addresses: Beograd Ranžirna (Belgrade Marshalling Yard), Lole Ribara 2 Železnik, Belgrade and Hajduk Velikov Venac 4/1

11000 Belgrade, Serbia

Tel: +381 (0)11 361-6844, +381 (0)11 361 - 6842, +381 (0)64 810-6640.

2) "Nelt Co." d.o.o. Beograd

Addressa: Maršala Tita 2016, 11272 Dobanovci, Belgrade Tel: +381 (0)11 3779-143, office@nelt.com, www.neltlsp.com

IŽS however provides the use of service points open for freight traffic, in accordance with Appendix 6 of this document, for loading, unloading and transhipment to all railway undertakings in a non-discriminatory manner and upon their request.

5.3.1.3 Basic service in marshalling yards and train formation tracks, including shunting tracks

"Infrastructure of Serbian Railways" will enable all railway undertakings to use the marshalling yards and train formation tracks, including shunting tracks, in a non-discriminatory manner and upon their request.

Their use means the use of track capacities and turnouts, including the signalling and interlocking equipment, as well as the use of catenary (when required) and any other special facilities according to local conditions.

IŽS provides the services of its shunting staff if such service is included in the special contract between IŽS and Railway Undertaking. The type and prices of services are defined in point 6.3.2.1.

The stations/yards providing the shunting services are: Novi Sad Ranžirna, Ruma, Beograd Ranžirna, Pančevo Glavna, Mala Krsna, Radinac and Nis Ranžirna. The shunting operations in these stations can be performed by IŽS shunting staff.

5.3.1.4 Basic service - storage sidings for rolling stock

"Infrastructure of Serbian Railways" provides the service of stabling of rolling stock to all interested railway undertakings which require stabling of rolling stock, in a non-discriminatory manner and upon their request, and to the extent permitted by the infrastructure capacities.



5.3.1.5 Basic service in maintenance facilities

Maintenance facilities, except for maintenance facilities dedicated to high speed trains or other types of rolling stock requiring specific facilities where the works performed are not a routine daily maintenance and require the vehicle to be withdrawn from service, exist on IŽS network but the basic maintenance service in such facilities is not provided by "Infrastructure of Serbian Railways" JSC. Information on facilities for rolling stock maintenance are provided in Appendix 3.10.

5.3.1.6 Basic services in other technical facilities including the cleaning and washing facilities

Other technical facilities are listed in point 3.6.6

"Infrastructure of Serbian Railways" provides the following basic services at technical facilities to railway undertakings in a non-discriminatory manner and upon their request:

- Use of wagon scales in stations, where available, according to table 5 of this document;
- Fixed facilities for test braking in station Beograd Ranžirna (Belgrade Marshalling Yard);
- Use of freight loading/unloading ramp;
- Use of ramp for loading and unloading of accompanied cars;
- Use of loading clearance;
- Use of portal crane in Aleksinac station;

The need for using the basic services listed in bullets 1, 3, 4 and 5 must be presented by railway undertakings in the capacity allocation process, whereas the need for other services can be presented in a separate request.

More detailed information on provision of the above stated basic services can be obtained at:

"Infrastructure of Serbian Railways" JSC

Traffic Department 6. Nemaniina St

11000 Belgrade, Serbia

Tel.: +381 11 3618 214 Fax: +381 11 3616 814 E-mail: sektor.sp@srbrail.rs

"Infrastructure of Serbian Railways" does not have the special facilities and does not provide the services of rolling stock cleaning and washing.

5.3.1.7 Basic services in inland port facilities connected to railway activities

Section 3.7 of this document lists inland ports that are connected to railway activities.

Detailed information on the services provided in these service facilities can be found on the website of the port operators. Information on the service facility managed by Special Port is given in Annex 3.10.a.

5.3.1.8 Basic services – relief services

IŽS has on its disposal a mobile relief facility – auxiliary train. The services of auxiliary train in cases of remedying the consequences of accidents or incidents are provided by IŽS, using its auxiliary trains and staff. In order to use the auxiliary train services, Railway Undertaking must address IŽS in writing:

Center for auxiliary train activities

6, Nemanjina St

11 000 Belgrade, Serbia Tel: +381 11 3620 899 Fax: +381 11 3620 899

Email: direktor.tkp@infrazs.rs

5.3.1.9 Basic services at fuel storage and refuelling facilities



Network Statement 2021

"Infrastructure of Serbian Railways" JSC is providing the services of fuel storing and issuing for refuelling of traction vehicles of all railway undertakings.

This relates to refuelling facilities at service points – stations and depots:

Pancevo main St., Lapovo, Kraljevo, Požarevac, Požega, Sombor, Kikinda, Belgrade Marshalling Yard, Crveni Krst, Ruma, Novi Sad teretna – ložionica, Zaječar, Zrenjanin, Vršac and Subotica.

Detailed information on the services of fuel storing and issuing for refuelling of traction vehicles are available at:

Department for Procurement and Central Warehousing 6, Nemanjina St 11 000 Belgrade, Serbia Tel: +381 11 3618 437

Email: nabavke.infra@srbrail.rs

5.3.2 Provision of basic services in services facilities

5.3.2.1 Shunting

Stations providing the shunting services are: Novi Sad Marshalling Yard, Ruma, Belgrade Marshalling Yard, Pancevo main St., Mala Krsna, Radinac and Niš Marshalling Yard. In the above stations shunting can be performed by IŽS shunting staff.

IŽS is providing the services of provision of shunting staff if this is envisaged by virtue of a special contract between IŽS and railway undertaking. The type and price of services are defined in item 6.3.3.1.

5.3.2.2 Other basic services

IŽS is providing other basic services if required by the railway undertaking and subject to a special contract. Other basic services that can be provided are:

• manning of facilities

Charging method and prices are provided in item 6.3.3.2.

5.4 Additional services

Additional services include:

- Supply of electricity for train traction;
- Preheating of the passenger trains, water supply, etc.;
- Modified contracts for the service:
 - (1) control of transport of dangerous goods,
 - (2) assistance in transport of special trains (exceptional consignments).

Use of the above mentioned services provided by IŽS will be enabled to all railway undertakings that have been allocated a minimum access package of services, in a non-discriminatory manner and upon their request.

Railway undertakings must present the request for the use of additional services in the capacity allocation process, please refer to Chapter 4.

In order to be able to use the above services a Railway Undertaking is obliged to conclude a separate contract with IŽS or with another service provider and pay the charge for provided service in accordance with the provisions of such contract.



More detailed information on provision of additional services can be obtained from IŽS.

"Infrastructure of Serbian Railways" JSC
Department for access to the railway infrastructure
6 Nemanjina St
11000 Belgrade, Serbia

Tel: +381 11 3618 214 Fax: +381 11 3616 814 sektor.pzi@srbrail.rs

5.4.1 Supply of electricity for traction

Methodology for charging of electricity for train traction is presented in Appendix 9.

For the service of supply of electricity for traction please refer to: Electrical Engineering Department

6, Nemanjina St 11000 Belgrade, Serbia

Tel: +381 11 3618 241 Fax: +381 11 3618 130 direktor.etp@infrazs.rs

5.4.2 Preheating of the passenger trains, water supply etc.

On IŽS network there is a device for preheating of passenger trains installed in Subotica station. Mandatory preheating operations include inspection of HV connecting devices prior to connecting to HV, turning on/off of high voltage connecting cable into the high voltage connecting box of passenger coach and connecting of HV to a fixed facility (or train locomotive), turning on of preheating and checking of electrical heating command and checking of train heating.

"Infrastructure of Serbian Railways" JSC is not providing services of preheating of passenger trains, water supply etc.

More information regarding the preheating of passenger trains are available at"

"Srbija Voz" a.d. 6, Nemanjina St. 11 000 Belgrade, Serbia

Tel: +381 11 3614 811 Fax: +381 11 3614 811 Email: putnik.info@srbvoz.rs

5.4.3. Services for transport of exceptional consignments and dangerous goods

5.4.3.1 Services for transport of exceptional consignments

IŽS provides the service of transport of exceptional consignments (vehicles or items) according to the provisions for transport of exceptional consignments prescribed under the Regulations on transport of exceptional consignments.

The service involves processing of railway undertaking's request to examine the possibilities for transport in terms of technical aspect and setting of other technical requirements and protective measures for transport of consignments that are not fulfilling the general technical standards for transport on the particular line section, e.g. loading gauge, axle loading etc. Any deviation from the standards is considered to be an exceptional consignment and a special procedure is required. The service involves additional engagement of IŽS's employees in preparation and carrying out of transport of exceptional consignments such as: defining of



transport conditions, possible engagement of additional staff for monitoring of transport and inspection of tracks after the transport, possible temporary re-location of trackside facilities and equipment etc.

IŽS is deciding whether it is possible to accept certain transport and under which conditions. It is necessary that for, every individual transport, IŽS and the Railway Undertaking define the scope and specification of needed services.

5.4.3.2 Services for dangerous goods transport

IŽS provides additional services to railway undertakings related to transport of dangerous goods. Control of dangerous goods transport for every individual transport is defined between IŽS and the Railway Undertaking, depending upon the specification of needed services. The availability and method of providing this service on IŽS network will be determined based on the decisions and procedures which will be subsequently prescribed by IŽS.

5.5 Ancillary services

Ancillary services include the following:

- 1) access to telecommunications network
- 2) provision of additional information
- 3) technical inspection of rolling stock
- 4) ticketing services in passenger stations
- 5) maintenance services provided in maintenance facilities dedicated to high speed trains or other types of rolling stock requiring specific facilities where the works performed are not a routine daily maintenance and require the vehicle to be withdrawn from service
- **6)** other ancillary services

IŽS reserves the right to decide which of the available ancillary services will be provided and under what conditions. If IŽS is providing a particular service, it will provide it to all railway undertakings under equal conditions in a non-discriminatory manner and upon their particular request.

5.5.1 Access to telecommunications network

IŽS provides railway undertakings with the service of access to the telecommunications network in accordance with the market conditions. Railway Undertaking should define, together with IŽS, the scope and specification of required services.

5.5.2 Provision of supplementary information

IŽS provides, if available, the following supplementary information on the use of railway infrastructure to the railway undertakings:

- Training and taking of exams in accordance with the internal rules and technological procedures of IŽS:
- Program of mandatory training from particular fields in accordance with the internal rules and technological procedures of IŽS;
- Provision of Timetable material (timetable graphs, timetable booklets) prepared and published by IŽS;
- Provision of online access to the Network Statement or submission of hard copy;
- Submission of excerpts from the local regulations of importance for railway transport or other documents.

For any further information the Railway Undertaking should define, together with IŽS, the scope and specification of required services.



5.5.3 Technical inspection of rolling stock

Technical inspection of rolling stock is performed upon obtaining of license for their use and prior to putting the vehicles into service.

Directorate for Railways prescribes the conditions to be fulfilled by the entities performing the technical inspection of vehicles and the manner for performing of technical inspection.

Only the rolling stock fulfilling the requirements prescribed by the Law on Safety can be included in the train and this is determined by means of a rolling stock inspection.

Railway Undertaking is responsible for proper composition of the train and it is obliged to check whether the train rolling stock is in a proper technical condition. Train composition and distribution of rolling stock in the train must ensure safe train movement and braking.

"Infrastructure of Serbian Railways" JSC is not providing the services of technical inspection of wagons and rolling stock.

5.5.4 Ticketing services in passenger stations

"Infrastructure of Serbian Railways" JSC is providing the ticketing services in passenger stations according to the special request of interested Railway Undertaking and according to its own capacities and assessment of impact on its staff's basic work process.

5.5.5 Maintenance services provided in maintenance facilities dedicated to high-speed trains or other types of rolling stock requiring specific facilities

The network operated by "Infrastructure of Serbian Railways" JSC currently does not have any maintenance facilities dedicated to high speed trains or other types of rolling stock requiring specific facilities providing the respective ancillary services.

5.5.6 Other ancillary services

IŽS provides other ancillary services:

Staff training and testing.



6. PRINCIPLES OF LEVYING CHARGES AND SERVICE PRICES, LEVEL OF CHARGES INCLUDING THE METHOD OF THEIR CALCULATION

The basic principles underpinning the charging regime for the use of infrastructure are set forth in the Methodology for valuation of elements for determining the charges for the use of railway infrastructure ("Official Gazette of RS" No 122/14, dated November 11, 2014). The Methodology is defining, in more detail, valuation of elements for determining the level of charge for minimum package of services and package for track access to service facilities and provision of services in service facilities.

The methodology is based on the principle that railway undertakings should only bear the justified cost of IM operations and the costs arising from the efficient provision of services requested by the users.

This methodology is based on the economic principle of valuation of elements for determining of charge level known as marginal cost plus (MC+). It is a charge setting principle based on marginal costs increased by the mark-up. The selected principle enables covering of justified costs arising in provision of requested services and is favourable for the so called "network systems" (systems that require major capital investments such as telecommunications, energy, natural gas transportation, road transport and other means of transport).

Marginal costs are estimated based on the variable costs which, within the Methodology, include:

short-term marginal costs: track wearing, train movement control and signalling, consumption of energy sources and overheads.

The charge is set based on the following elements: line category (main, regional or local) used by train, use of railway nodes, train category (passenger or freight) and traction type (electrical or diesel).

The components of the total charge include charge for the minimum package of services (category I), charge for track access to service facilities (category IIa), charge for providing the services in service facilities (category IIb), charge for providing the additional services in service facilities (category III) and charge for providing the ancillary services in service facilities (category IV).

6.1 Charing principles

6.1.1 Charge for the minimum package of services (category I)

Charges for the minimum package of services for infrastructure access are defined based on the costs of railway traffic management and infrastructure capacities maintenance.

The level of unit charges is determined in relation to line category (main, regional, local), train category (passenger trains, freight trains) and traction type (diesel, electrical).

The charging units are:

- 1) Train km;
- 2) Gross tonne km.

6.1.2 Charge for track access and use of service facilities (categories IIa and IIb)

Charges for track access and use of service facilities are defined based on the costs of railway traffic regulation and infrastructure capacities maintenance.

The level of unit charges is determined in relation to railway node (Subotica, Novi Sad, Beograd, Lapovo, Niš, Pančevo), train category (passenger trains, freight trains) and traction type (diesel, electrical).

The charging units are:

- 1) Number of trains;
- 2) Gross tonne km;
- 3) Number of serviced trains.



The charge is levied for the trains starting and finishing their running in the railway node, that is, transiting the railway nodes, as well as for the trains in railway nodes.

Serviced train is a train to which a service of using the service facilities in a railway node has been provided aiming to use the services of technical-wagon unit in train inspection, maintenance of wagons, railway vehicles and machinery.

6.1.3 Charge for additional services (category III)

The level of charges for additional services provided by Infrastructure Manager is determined based on the costs incurred during the provision of these services.

Charges for using the additional services are applied in a non-discriminatory manner for all the railway undertakings, that is, service users.

6.1.4 Charge for ancillary services (category IV)

The level of charges for ancillary services provided by Infrastructure Manager is determined based on the costs incurred during the provision of these services.

Charges for using the ancillary services are applied in a non-discriminatory manner for all the railway undertakings, that is, service users.

6.2 Charging system

Charging system for the use of railway infrastructure is determined in accordance with the provisions of the Law on the Railways; the detailed description of the method of calculation of charges and parameters required for the calculation, depending on the type of service, is presented in item 6.3 of this document.

6.3 Tariff system

IŽS charges fee for the train path allocation procedure costs as follows:

- for the allocation of annual train paths for the 2020/2021 Timetable nor for the allocation of train paths under the requests for amendment of annual 2020/2021 Timetable performed within the deadlines prescribed in Appendix 4.4, IŽS will not charge procedure costs.
- for allocation of train path under the extraordinary request for amendment of the annual timetable amount to 17.137,00 RSD per train path.
- for allocation of ad-hoc train path amount to 12.213,00 RSD per train path.

6.3.1. Minimum package of services (category I)

Charge for minimum package of services (NKI) is determined according to the following formula:

$$NKI = (\sum VKM_{ijk} \cdot C_{VKM_{ijk}}) + F \cdot (\sum BRTKM_{ij} \cdot C_{BRTKM_{ij}})$$

Key:

- i Line category (main, regional, local)
- j Train category (passenger trains, freight trains)
- k Traction type (diesel, electrical)



 $(\sum VKM_{ijk} \cdot C_{VKM_{ijk}})$ - charge for the use of infrastructure capacities for the minimum package of services in relation to line category (i), train category (j) and traction type (k)

 VKM_{ijk} - number of train km on the network in relation to line category (i), train category (j) and traction type (k)

 C_{VKM} - charge per one train km in relation to line category (i), train category (j) and traction type (k)

F - factor depending on the train category (factor level depends on the train category impact on the level of infrastructure maintenance costs or the applied strategy for development of a particular segment of railway market)

 $(\sum BRTKM_{ij} \cdot C_{BRTKM_{ij}})$ - charge for wearing out of line and tracks during train passing in relation to line category (i) and train category (j)

 $^{BRTKM}_{ij}$ - number of gross-tonne km on the network in relation to line category (i) and category of the train (j)

 $C_{\it BRTKM_{ij}}$ - charge per one gross-tone km in the function from the line category (i) and train category (j)

The level of charge for the path of one train depends on the train gross mass. Gross-tonne km, in the sense of the calculation of the level of charge for the path of one train, is defined as a product of train km and train gross mass, which implies the total mass of all working locomotives and the total mass of all hauled stock.

Freight trains with electrical traction

Line category	Charge per one train km [RSD/TKM]	Charge per one gross-tonne km [RSD/GTKM]
Main line	93,50	0,0858
Regional line	63,77	0,0781
Local line	10,53	0,0361

Freight trains with diesel traction

Line category	Charge per one train km [RSD/TKM]	Charge per one gross-tone km [RSD/GTKM]
Main line	79,04	0,0858
Regional line	51,24	0,0781
Local line	10,07	0,0361

Passenger trains with electrical traction

Line category	Charge per one train km [RSD/TKM]	Charge per one gross-tone km [RSD/GTKM]
Main line	62,33	0,0686
Regional line	42,51	0,0625
Local line	7,02	0,0289



Passenger trains with diesel traction

Line category	Charge per one train km [RSD/TKM]	Charge per one gross-tone km [RSD/GTKM]
Main line	52,69	0,0686
Regional line	34,16	0,0625
Local line	6,71	0,0289

Factor depending on the train category [F] – applied to all types of freight trains and passenger trains and it amounts to 1.0.

6.3.2. Track access and use of service facilities (categories IIa and IIb)

Charge for use of infrastructure when the trains are starting and finishing their running in the node, that is, when they are transiting railway nodes (NKIIa), as well as for servicing of the trains in the railway nodes (NKIIb) is determined as follows:

$$NKII = NKIIa + NKIIb$$

Key:

$$NKIIa = (\sum Va_{lmn} \cdot C_{Va_{lmn}}) + (\sum BRTKM_{lm} \cdot C_{BRTKM_{lm}})$$

$$NKIIb = \sum Vb_{lm} \cdot C_{Vb_{lm}}$$

1 - Node (Subotica (1), Novi Sad (2), Beograd (3), Lapovo (4), Niš (5), Pančevo (6))

m – Train category (passenger trains, freight trains)

n – Traction type (diesel, electrical)

 $(\sum Va_{lmn} \cdot C_{Valmn})$ - charge for the use of infrastructure capacities in the node for the package of services IIa in relation to node (l), train category (m) and traction type (n)

 Va_{lmn} - number of trains in the node in relation to node (1), train category (m) and traction type (n)

 C_{Valmn} - charge per one train of used infrastructure capacities in the node, in relation to node (1), train category (m) and traction type (n)

 $(\sum BRTKM_{lm} \cdot C_{BRTKM_{lm}})$ - charge for wearing out of railway line and railway track when using the infrastructure capacities in the node, for package of the services IIa in relation to node (l) and train category (m)

 $\mathit{BRTKM}_{\mathit{lm}}$ - number of gross-tonne km in the node, in relation to node (l) and train category (m)

 C_{BRTKM} - charge per one gross-tonne km in the node in relation to node (l) and train category (m)

 $\sum_{lm} C_{Vb_{lm}} \cdot C_{Vb_{lm}}$ - charge for providing the services of train "servicing" in the node, for package of services IIb, in relation to node (l) and train category (m)

 Vb_{lm} - the number of trains which were provided the service (which were "serviced") in the node, in relation to node (l) and train category (m)

 $C_{v_{b_{lm}}}$ - charge per one train, "serviced" in the node, in relation to node (1) and train category (m)



Freight trains with electrical traction

Node	Charge for the use of infrastructure capacities in the node per one train [RSD/train]	Charge per one gross-tonne km in the node [RSD/GTKM]
Novi Sad	3.658,76	0,0801
Beograd	4.302,04	0,0894
Lapovo	4.987,87	0,0744
Niš	5.422,50	0,1171
Pančevo	3.257,01	0,0911
Subotica	4.097,11	0,0497

Freight trains with diesel traction

Node	Charge for the use of infrastructure capacities in the node per one train [RSD/train]	Charge per one gross-tonne km in the node [RSD/GTKM]
Novi Sad	3.607,21	0,0801
Beograd	4.145,57	0,0894
Lapovo	4.935,40	0,0744
Niš	5.293,94	0,1171
Pančevo	3.196,24	0,0911
Subotica	3.944,07	0,0497

Passenger trains with electrical traction

Node	Charge for the use of infrastructure capacities in the node per one train [RSD/train]	Charge per one gross-tone km in the node [RSD/GTKM]
Novi Sad	2.439,17	0,0534
Beograd	2.868,03	0,0596
Lapovo	3.325,25	0,0496
Niš	3.615,00	0,0781
Pančevo	2.171,34	0,0607
Subotica	2.731,41	0,0332

Passenger trains with diesel traction

Node	Charge for the use of infrastructure capacities in the node per one train [RSD/train]	Charge per one gross-tone km in the node [RSD/GTKM]
Novi Sad	2.404,81	0,0534
Beograd	2.763,71	0,0596
Lapovo	3.290,27	0,0496
Niš	3.529,29	0,0781
Pančevo	2.130,82	0,0607
Subotica	2.629,38	0,0332



6.3.2.1 Prices for basic services in services facilities

The price for provision of basic services in services facilities is set forth based on actual costs incurred in provision of such service and it is applied in a non-discriminatory manner to all railway undertakings.

A) Service for using of wagon scales

"Infrastructure of Serbian Railways" JSC is providing the service of using the wagon scales. The amount of the price depends on whose shunting staff is hired during the use of wagon scales.

Station (wagon scales location)	Hiring of shunting staff	Price for the use of wagon scales [RSD/wagon VAT exclusive]
Beograd ranžirna, Novi Sad ranžirna, Niš ranžirna and Pančevo Glavna	From Infrastructure Manager	4.426,00
Šid, Vršac, Zrenjanin fabrika, Subotica teretna, Sombor, Požega, Čačak, Lapovo ranžirna and Dimitrovgrad	From Railway Undertaking	3.309,00

B) Service of loading and unloading using the portal crane in Aleksinac station

The service of loading and unloading using the portal crane together with the staff of public railway Infrastructure Manager is defined by means of a separate contract concluded between the public railway Infrastructure Manager and the Railway Undertaking, i.e. the user of the said service.

Unit price for the use of portal crane for loading and unloading amounts to 150,00 RSD/net tonne of goods VAT exclusive.

6.3.2.2 Price of services regarding the provision of relief

The price for providing the basic service regarding the provision of relief is determined based on the actual costs incurred during the provision of such service and it is applied in a non-discriminatory manner for all railway undertakings.

The price of transporting the auxiliary train from the domicile station to the place of work and return to the domicile

No	Means of transport	Measuring unit	Price in RSD, VAT exclusive
1	Traction vehicle - locomotive of the operator – in operation, maneuver or expectation of operation		According to the operators bill
2	Vehicle of the working unit (ZOP, ETP, SP,) within "IŽS" – trolley, truck, etc.		According to the account of the working unit "IŽS" which performed transport
3	GEISMAR road-rail vehicle type V2R-730-S – road driving	hour	15.156,00
4	GEISMAR road-rail vehicle type V2R-730-S – railway driving	hour	18.156,00
5	Traction vehicle – locomotive "IŽS" or locomotive leased (locomotive operation + staff operation + energy) -in operation	hour	41.000,00
	-in expectation of operation	hour	15.000,00



Price for equipment and tools for the operation of auxiliary train

No	Asset description	Type of work	Measu ring unit	Price in RSD, VAT exclusive
1	Auxiliary train	Expecting of work	hour	2.000,00
2	Auxiliary train	Work on preparation and retrieval of intervention equipment	hour	4.000,00
3	GEISMAR road-rail vehicle type V2R-730- S	Work during intervetion	hour	15.156,00
4	Jack EDK 1000 (99 72 9 471 001-4)	Expecting of work	hour	5.000,00
5	Jack EDK 300 (99 72 9 471 101-2)	Expecting of work	hour	5.000,00
6	Jack DHPD 65 (99 72 9 571 001-3)	Expecting of work	hour	5.000,00
7	Jack EDK 1000 (99 72 9 471 001-4)	Preparation, Work, Retrieval	hour	56.970,00
8	Jack EDK 300 (99 72 9 471 101-2)	Preparation, Work, Retrieval	hour	27.248,00
9	Jack DHPD 65 (99 72 9 571 001-3)	Preparation, Work, Retrieval	hour	30.146,00
10	LUKAS equipment	Preparation, Work, Retrieval	hour	7.066,00
11	WALTER trolley	Installation and removal	hour	6.000,00
12	WALTER trolley	Transport	hour	3.320,00
13	WALTER trolley	Remaining of trolley under the rolling stock – lump sum	hour	600,00
14	Stable power generation unit	Work	hour	2.400,00

Labour costs for auxiliary train's staff

No	Type of work	Measur ing unit	Price in RSD VAT exclusive
1	Assistant on auxiliary train	hour	704,00
2	Electromechanic	hour	981,00
3	Driver and operator of a two-way motor vehicle	hour	1.016,00
4	Rail crane operator	hour	1.027,00
5	Hydraulic equipment operator	hour	1.027,00
6	Locksmith on the auxiliary train	hour	1.027,00
7	Rail vehicle mechanic	hour	1.027,00
8	Auxiliary train manager	hour	1.126,00
9	Expert associate for circuit inspection	hour	1.175,00
10	Assistant auxiliary train chief	hour	1.282,00
11	Auxiliary train chief	hour	1.605,00
12	Employees participating in the work of auxiliary train	pcs	1.800,00

Note: operating time is calculated in full hours – each started working hour is counted as a full working hour.



6.3.2.3 Price for the service of storing and refuelling

The price for the service of fuel storing and issuing for the purposes of refuelling of traction vehicles of all railway undertakings is determined based on the actual costs incurred during the provision of this service and is applied in a non-discriminatory manner for all railway undertakings.

The service of fuel storing and issuing for the purposes of refuelling of traction vehicles amounts to 5.43 RSD per stored litre of diesel fuel VAT exclusive.

6.3.3. Prices for provision of basic services referred to in item 5.3.2

6.3.3.1 Price of shunting services and other related services

Unit price for the service for provision of shunting staff is set forth based on the actual costs incurred based on the necessary technological process of shunting upon the railway undertaking's request and according to unit prices of staff hired from the public railway infrastructure manager in line with the price schedule No 4/2019-1328-305 dated 20.02.2019 which is applied in a non-discriminatory manner to all railway undertakings.

Shunting by means of shunting or train locomotive

Type of operation and hired shunting team	Measuring Unit	Price in RSD/MU VAT exclusive	
Shunting of wagons without special shunting conditi	ons		
1 shunting operator from RU + 1 shunter	1 wagon	74,00	
1 shunting operator from RU + 2 shunters	1 wagon	148,00	
1 shunting operator+ 1 shunter	1 wagon	152,00	
1 shunting operator+ 2 shunters	1 wagon	226,00	
shunting of wagons with special shunting conditions for the respective service point (cautious, repairs, exceptional consignments, military transports)			
1 shunting operator from RU + 1 shunter	1 wagon	163,00	
1 shunting operator from RU + 2 shunters	1 wagon	299,00	
1 shunting operator+ 1 shunter	1 wagon	335,00	
1 shunting operator+ 2 shunters	1 wagon	457,00	

Shunting operations in marshalling and train formation in stations

Operation type	Traffic staff work by operations	Measuring unit	Price in RSD, VAT exclusive
Prior operations	 uncoupling of train locomotive from the train preparation of shunting composition for marshalling (air discharge, decoupling of semicouplings and coupling loosening) 	1 train (in arrival)	598,00
Main and final operations	 transferring of shunting locomotive to shunting composition and coupling pushing and marshalling of shunting composition via the processing facility (hump/shunting track) closing up and coupling of wagons 	1 train/composition (marshalled via processing facility)	1.733,00

Remark: Removal of tail light from trains in arrival i.e. coupling of train locomotive and placing of tail light to trains in dispatching is performed by the qualified staff from the railway undertaking at train formation stations.



6.3.3.2 Prices for provision of other services

Поседање непоседнутих службених места

Manning of unmanned service points

Structure of manning of non-manned service points, upon the railway undertaking's request, consists of:

- manning of service points of public railway infrastructure manager upon the railway undertaking's request in function of traffic management or shunting movements in such service points outside the working hours for such service point, and
- manning of service points of the railway undertaking upon its request in function of traffic management or shunting movements in such service points because the railway undertaking does not possess adequate traffic staff.

Charge for manning of service points by traffic staff amounts to:

Work place	Train dispatcher	Switch operator
Price in RSD/hour VAT exclusive	1.236,00	955,00

Calculation for periods of manning of non-manned service points starts from the moment of takeover of service at the service point until the moment of handover of service for the purposes of train operation i.e. shunting movement of railway undertaking's train set, and in case of temporarily manned stations (station working hours with interruption) not taking into account the period when the station is manned during the working hours according to the timetable booklet.

In the stations where it is necessary to perform manning with the train dispatcher and the switch operator, the manning period is the same for both employees given the responsibility of both worker during the setting up of a train route.

The price for provision of basic services in other technical facilities is determined based on the actual costs incurred during the provision of such service and is applied in a non-discriminatory manner for all railway undertakings.

6.3.4. Additional services (category III)

When determining the level of prices the time norms for performing of tasks were used in accordance with the Methodology for determining the required number of workers for performing the planned scope of work ("Official Gazette of ŽTP Beograd" 10/85) and the price for hiring of staff according to the Methodology for calculation of labour sales price per effective hour for the employees of "Infrastructure of Serbian Railways" (Decision of the Board of Directors 4/2015-53-17 dated 29.12.2015) and other valid railway regulations and documents.

The prices of additional services are determined in accordance with the Methodology for valuation of elements for determining the charges for the use of railway infrastructure. The levels of prices for additional services are determined as a product of standardized period for service performing and price of effective working hour of staff hired to provide the service, and they are solely based on the actual cost of work incurred during the provision of the particular service or directly determined by means of the Infrastructure Manager's separate decision.

Additional services are provided upon the Railway Undertaking's request, and the prices are applied in a non-discriminatory manner for all railway undertakings. Railway Undertakings will pay such prices according to the actual level of use.



6.3.4.1 Prices of traction electricity

The prices of traction electricity depend on the prices of electricity determined by the supplier (currently JP Elektroprivreda Srbije), actual consumption costs, gross tonne km and train type. The calculation method is provided in Appendix 9.

6.3.4.2. Preheating of passenger trains

The service of preheating of passenger trains is provided by "Srbija Voz" a.d.

More information regarding the preheating of passenger trains are available at:

"Srbija Voz" a.d. 6, Nemanjina St. 11 000 Belgrade, Serbia Tel: +381 11 3614 811 Fax: +381 11 3614 811

Email: putnik.info@srbvoz.rs

6.3.4.3 Services of transport of exceptional consignments and dangerous goods

The unit price of additional services regarding the transport of exceptional consignments and dangerous goods is determined based on the actual costs incurred in provision of such service and unit prices of staff hired from the public railway infrastructure manager according to the price schedule No 4/2019-1328-305 dated 20.02.2019 which is applied in a non-discriminatory manner to all railway undertakings.

Issuing of approvals for transport of exceptional consignments

Operation	Measuring unit	Price in RSD VAT exclusive
Processing of request, issuing of conditions and informing by means of telegramme for the purposes transport of exceptional consignments	Request for transport of exceptional consignment	12.976,00

Accompanying the trains with exceptional consignments:

Accompanying the consignments by professional railway staff, as necessary, according to type and complexity of exceptional consignment transport as set out in the Regulations on transport of exceptional consignments.

Unit price for this service is determined according to effective working hours of hiring of the employee and number of persons accompanying the exceptional consignment.

Operation - operators	Measuring unit	Price in RSD VAT exclusive
Accompanying performed by an employee from traffic department	Effective hour of accompanying	1.844,00
Accompanying performed by an employee from civil engineering department	Effective hour of accompanying	1.339,00
Accompanying performed by an employee from electrical engineering department	Effective hour of accompanying	1.453,00



If the employee accompanying the consignment is entitled to daily allowance for the business trip in the country, the service price should also include the cost of realized daily allowances. The amount of daily allowances is determined in the Collective Agreement of the public railway Infrastructure Manger.

Transport of exceptional consignments with exceeded axle-loading

The unit price for approving the transport of exceptional consignment with exceeded axle-loading is 59,00 RSD/net tonnes VAT exclusive.

6.3.5. Ancillary services (category IV)

Ancillary services can be the ones according to point 5.5 of this Network Statement. Given that the Infrastructure Manager is not obliged to provide these services, the prices for ancillary services provided by "Infrastructure of Serbian Railways" JSC will be determined based on the actual costs incurred during the provision of the said service and will be a subject to a separate contract concluded between the interested parties.

6.3.5.1 Prices for other accompanying services

Staff training and testing

This additional service is provided in case of a request for training and testing of knowledge of the staff of the user of services provided by public railway Infrastructure Manager. The price for training and testing of interested users is determined as follows:

$$Cpp = Tpo + Tto + Tpz + Tos$$

This price includes:

- cost of practical training Tpo performed by minimum one expert from the Infrastructure Manager (familiarizing the candidates with the local conditions and technical capacities);
- cost of theoretical training Tto performed by minimum two lecturers (familiarizing with signalling and traffic regulations, special measures for occupational safety and protection as well as all important normative acts provisions of station regulations, technological work process etc., and if necessary provisions in connection to the transport of dangerous goods);
- cost of testing Tpz taking of expert exam regarding the familiarity with railway infrastructure performed by minimum four members of expert committee (president, 2 examiners from the expert field and 1 examiner on the provisions of measures for occupational safety and protection);
- cost of staff Tos hired for the provision of respective service according to the actual level of realization (daily allowances, travelling expenses, submission of required materials etc.)

The price for this service is determined in accordance with the separate Contract between IŽS and the interested party and specification of costs is provided in a descriptive manner and expressed according to the number of candidates and hired experts from the Infrastructure Manager involved in provision of this service.

6.4 Efficiency scheme

One of the most important indicators of efficient network operations, both for Railway Undertaking and Infrastructure Manager, is train delay.

Train delays are monitored related to the causes of delays. Accordingly, the delays can be primary and secondary.

Primary delays are all train delays caused by interference or disturbance which led to the delay and that were not caused by delay or cancellation of other train.



Secondary delays are train delays caused by already existing earlier delay.

Overview of primary and secondary causes of train delays is presented in Appendix 7 of the Network Statement.

IŽS keeps a record of movements of all trains on its network and determines the causes of delay.

Delays can be caused by the following:

- Infrastructure Manager,
- Railway Undertaking,
- external factor.

Number of minutes of train delay is determined on the basis of deviation of train actual running time compared to the train running time envisaged by the Timetable.

The compensation for all primary train delays is calculated on the basis of the number of minutes of train delay and charged between IŽS and RU, if agreed under the Contract for the use of railway infrastructure. The reason for this is to motivate the Railway Undertaking and the Infrastructure Manager to minimize the Timetable deviations on the network and to increase the quality of transport service offered to the end users.

The compensation for delay is 0.1% of the charge for the entire train path, for every minute of delay. The total amount of the delay compensation for every individual train can be maximally up to 5% of the charge for the entire train path, for each party responsible.

For the delays of passenger trains less than 10 min per 100 km of allocated train path, that is, for the delays of freight trains of less than 40 min per 100 km of allocated train path, the charging between IŽS and RU is not performed. Calculation is performed solely for the entire train path, not for the particular parts of the path.

For the train paths shorter than 100 km the permitted delay is determined proportionally to the actual path length.

If the Railway Undertaking does not start the train 300 minutes after the prescribed departure according to the Timetable, it will be deemed that the train path of that train has been automatically cancelled for that day.

Train delays, caused by accidents or incidents, in respect of which the responsibility for the delay cannot be determined with certainty without the investigation procedure, will be calculated subsequently.

Delays caused by the external factor arise from the circumstances which are not under influence of the Infrastructure Manager or the Railway Undertaking. Delays caused by the external factor are the delays caused by the force majeure, or the delays caused by the third parties.

6.5 Modification of charges for the use of infrastructure

Charges for the minimum package of services and track access to service facilities, as well as charges for additional and ancillary services, can be modified depending on the conditions on the market of the railway services, in which case it must be published at least six months in advance.

6.6 Discounts

"Infrastructure of Serbian Railways" JSC is not approving quantity discounts.

6.7 Billing arrangements

Method and time schedule for calculation and payment of charges, as well as instruments for securing the payment, will be determined in detail in the contract between the Infrastructure Manager and the Railway Undertaking.

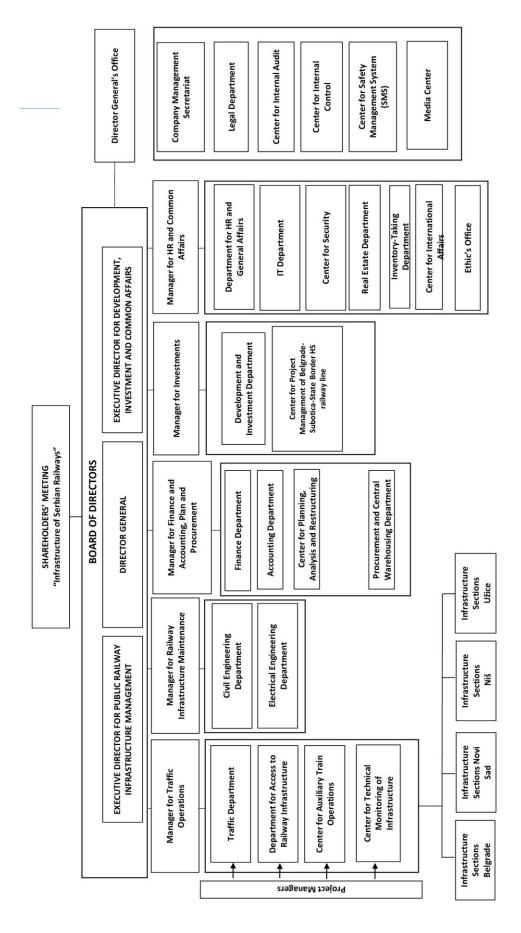


APPENDICES

- 1. Organizational chart of "Infrastructure of Serbian Railways" JSC
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- 3.10 Facilities for rolling stock maintenance
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- 5.3. Geometry of pantograph (current collector) TYPE POS 254/III used on IŽS network
- 6. Register of infrastructure data
- 7. Overview of primary train delay causes
- 8. Overview of platforms and arranged surfaces in service points
- 9. Method for calculation of electricity consumption for train traction
- 10. Railway node boundaries



Appendix 1: Organizational chart of "Infrastructure of Serbian Railways" JSC





Appendix 2: List of internal regulations (documents) and technological procedures:

Internal documents – regulations taken over in accordance with the Law on Safety and Interoperability of Railways – Article 152 para 2

- 1) Regulations on special train operations ("Official Gazette of ZJŽ", No 9/78);
- 2) Instructions for control of Timetable implementation and applying of traffic-technical regulations ("Official Gazette of ZJŽ", No 3/84 and 2/87);
- 3) Regulations on parlour car operations ("Official Gazette of ZJŽ", No 2/80);
- 4) Instructions on technical norms and data for drafting and implementation of Timetable with appendices 1, 2 and 3 ("Official Gazette or ZJŽ No 9/89, 6/91, 8-9/91, 4/92 and 9/92);
- 5) Instructions for preparation of technological process for operation of marshalling and distribution yards ("Official Gazette or ZJŽ, No 6/72);
- 6) Guidelines for sending of telegrams on JŽ in domestic and international railway telecommunication traffic ("Official Gazette of ZJŽ", No 11/93 and 4/96);
- 7) Instructions for wagon inventory taking on JŽ lines ("Official Gazette of ZJŽ", No 3/85, 2/89, 14/90 and 8/94);
- 8) Instructions for processing of data obtained in wagon inventory taking on JŽ lines ("Official Gazette of ZJŽ", No 7/85, 2/89, 14/90 and 8/94);
- 9) Instructions on the use of wagons and loading tackle ("Official Gazette of ZJŽ", No 3/97);
- 10) Regulations on the method for equipping the wagons with fire extinguishers containing chemical fire extinguishing agents ("Official Gazette of ZJŽ", No 6/92);
- 11) Regulations on the compensation of damages occurring on transport means in railway traffic ("Official Gazette of ZJŽ", No 2/96);
- 12) Regulations on welding works performed on rolling stock ("Official Gazette of ZJŽ", No 5/81);
- 13) Regulations on use of electric traction stable facilities on JŽ ("Official Gazette of ZJŽ", No 2/85);
- 14) Instructions on operation of JŽ controlling and acceptance bodies ("Official Gazette of ZJŽ", No 1/03);
- 15) Instructions on safety measures on JŽ electrified lines ("Official Gazette of ZJŽ", No 8/88);
- 16) Regulations for applying the electricity safety measures on OCL single phase system 25 kV, 50Hz of JŽ ("Official Gazette of ZJŽ", No 5/79);
- 17) Instructions for performing the operations on JŽ electrified lines equipped with single phase system 25 kV, 50Hz ("Official Gazette of ZJŽ", No 4/90);
- 18) Instructions on operating the speedometers on traction and other stock and processing of recording tape ("Official Gazette of ZJŽ", No 6/80 and 8/90);
- 19) Regulations on technical and wagon operations ("Official Gazette of ZJŽ", No 6/88);
- 20) Instructions for measurement of ohm resistance on railway vehicle wheel-set ("Official Gazette of ZJŽ", No 4/78);
- 21) Instructions for operation and maintenance of bogies type Y-25 and Y-27 adopted on Yugoslav Railways ("Official Gazette of ZJŽ", No 2/87);
- 22) Instructions for operation and inspection of electrical devices on coaches ("Official Gazette of ZJŽ", No 3/02);



- 23) Instructions for repairing of wheel-sets and axle bearings for JŽ wagons ("Official Gazette of ZJŽ", No 2/00);
- 24) Instructions for operation of motor trains ("Official Gazette of ZJŽ", No 6/82 and 10/82);
- 25) Instructions for wagon lubricating operations ("Official Gazette of ZJŽ", No 1/55);
- 26) Instructions for wagon inspectors ("Official Gazette of ZJŽ", No 2/06);
- 27) Instructions for technical-wagon service record taking and technical data on JŽ wagons (with collection of TK forms) ("Official Gazette of ZJŽ", No 3/02);
- 28) Regulations on cleaning of coaches/wagons and motor trains ("Official Gazette of ZJŽ", No 6/88);
- 29) Interim special conditions on inclusion of wagons for transport of passenger cars in passenger and high speed trains on JŽ lines ("Official Gazette of ZJŽ", No 6/70, 8/71);
- 30) Instructions on transport of M-84 tank and its modifications ("Official Gazette of ZJŽ", No 1/88);
- 31) Instructions on quality guarantee for repairs performed on rolling stock ("Official Gazette of ZJŽ", No 7/79);
- 32) Instructions for regular repair of buffing and draw gear ("Official Gazette of ZJŽ", No 10/92);
- 33) Instructions for the use of Soviet (SŽD) tank wagons on JŽ lines ("Official Gazette of ZJŽ", No 6/88);
- 34) Instructions on storing of technical documents on JŽ ("Official Gazette of ZJŽ", No 3/88);
- 35) Instructions on the procedure in case of damaging of foreign wagons on JŽ lines ("Official Gazette of ZJŽ", No 5/03);
- 36) Regulations for thermic processing of turnout elements and rail ends for insulated rail joints ("Official Gazette of ZJŽ", No 4/86);
- 37) Regulations on the measures for traffic safety and safety of workers performing the trackside works ("Official Gazette of ZJŽ", No 6/92);
- 38) Instructions for securing of traffic in winter conditions ("Official Gazette of ZJŽ", No 1/04);
- 39) Instructions for welding of railway rails in aluminum-thermic procedure ("Official Gazette of ZJŽ", No 10/86);
- 40) Instructions for controlling the compacting degree of railway line substructure applying the dynamic method on JŽ network ("Official Gazette of ZJŽ", No 1/06);
- 41) Instructions for uniform criteria for controlling the line condition on JŽ network ("Official Gazette of ZJŽ", No 6/01 and 4/04);
- 42) Instructions for delivery, installation and maintenance of *Kraiburg* rubber panels for level crossings on JŽ network ("Official Gazette of ZJŽ", No 4/03);
- 43) Instructions for delivery, installation and maintenance of *Pandroll k-lock* track fastening on JŽ network ("Official Gazette of ZJŽ". No 3/04):
- 44) Instructions for delivery, installation and maintenance of *Pandrol-Fastclip* fastenings on JŽ network ("Official Gazette of ZJŽ", No 1/03);
- 45) Instructions for delivery, installation and maintenance of *Pandroll* elastic fastenings on JŽ network ("Official Gazette of ZJŽ", No 8-9/87);
- 46) Instructions for delivery, installation and maintenance of SKL-2 elastic clamp on JŽ network ("Official Gazette of ZJŽ", No 8-9/87);
- 47) Instructions on technological procedure for protection against corrosion of rails, turnouts, bridges, jack and W-shape supports ("Official Gazette of ZJŽ", No 11/87);



- 48) Instructions for manufacturing, control and acceptance of *Walter BAU-AG* single unit pre-stressed concrete sleepers on JŽ network ("Official Gazette of ZJŽ", No 5/04);
- 49) Instructions for delivery, installation and maintenance of turnouts on concrete sleepers manufactured by *Walter BAU-AG* on JŽ network ("Official Gazette of ZJŽ", No 2/05);
- 50) Instructions for manufacturing, control and acceptance of *PFLEIDERER* pre-stressed concrete sleepers for turnouts and crossings on JŽ network ("Official Gazette of ZJŽ", No 4/05);
- 51) Instructions for delivery, installation and maintenance of *Tensar* two-axle geonet on JŽ network ("Official Gazette of ZJŽ", No 5/05);
- 52) Instructions for manufacturing and implementation of clamps for S-49 and UIC 60 rails on JŽ network ("Official Gazette of ZJŽ", No 1/06);
- 53) Instructions for operation of inductive auto-stop device I 60 ("Official Gazette of ZJŽ", No 2/75, 7/78, 8/81 and 8/89);
- 54) Instructions on technical inspection of signalling and safety devices ("Official Gazette of ZJŽ", No 10/78);
- 55) Instructions on the types and use of telecommunication devices and connections (1977);
- 56) Regulations on company clothing on Yugoslav Railways ("Official Gazette of ZJŽ", No 4/88, 13/89, 6/92 and 6/93);
- 57) Instructions for proving the presence of alcohol in the employee's organism during the work on JŽ ("Official Gazette of ZJŽ", No 5/67);
- 58) Regulations for calculation and determination of train running duration (1956);

The company is also applying other internal documents – Regulations, Instructions, Permanent Orders, General Orders and other orders

- 1) Internal Rules of Procedure of Company's Shareholders Meeting ("Official Gazette of Serbian Railways" No 28/15);
- 2) Internal Rules of Procedure of Company's Board of Directors ("Official Gazette of Serbian Railways" No 15/15);
- 3) Regulations on organization and systematization of jobs in Joint Stock Company for Public Railway Infrastructure Management "Infrastructure of Serbian Railways", Belgrade ("Official Gazette of Serbian Railways" No 55/18, 67/18, 9/19, 10/19, 11/19, 12/19, 14/19, 16/19, 23/19, 25/19, 30/19, 33/19, 39/19, 43/19, 46/19, 48/19);
- 4) Instructions on organization and work procedures of operational service in the area covered by "Infrastructure of Serbian Railways" JSC ("Official Gazette of Serbian Railways" No 21/17, 21/18 and 37/18);
- 5) Instructions for restricted speed running procedures in the area covered by "Infrastructure of Serbian Railways" JSC ("Official Gazette of Serbian Railways" No 21/2017);
- 6) Instructions for the preparation of Station Regulations in the area covered by "Infrastructure of Serbian Railways" JSC ("Official Gazette of Serbian Railways" No 21/2017, 7/18);
- 7) Instructions on procedures in case of incidents and accidents in the area covered by "Infrastructure of Serbian Railways" JSC ("Official Gazette of Serbian Railways" No 52/18);
- 8) Instructions for regulation and management of train movements on lines equipped with traffic remote control as well as for operation of FLEXICODE 560/I system remote control devices;
- 9) Instructions for traffic organization, performing of traffic operations and operating of traffic remote control devices on Batajnica Stara Pazova Ruma Šid railway line;



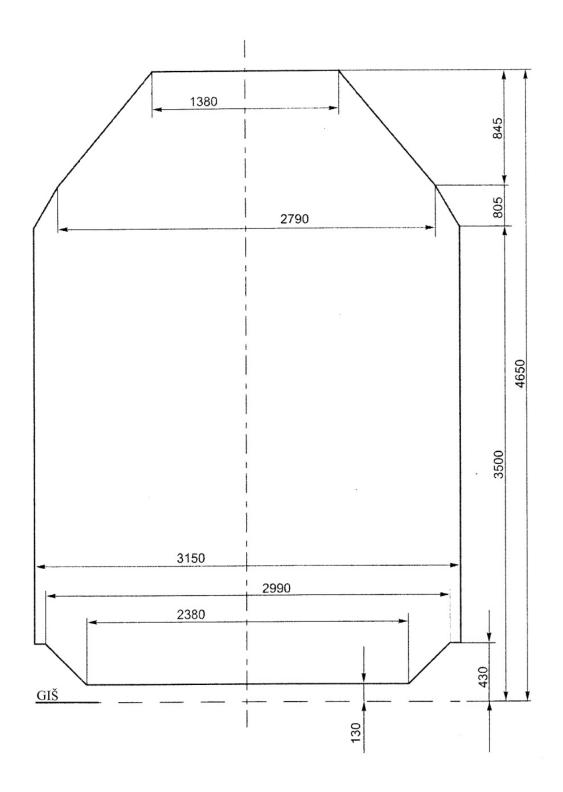
- 10) Instructions on traffic organization, performing of traffic operations and operating of traffic remote control devices on Belgrade (Resnik) Požega Vrbnica railway line and on the (Belgrade) Resnik-Požega-Vrbnica-State Border (Bijelo Polje) railway line ("Official Gazette of Serbian Railways" No 53/18);
- 11) Several instructions for use of radio connection on particular railway lines (Lapovo-Kraljevo, Crveni Krst-Zaječar and other railway lines);
- 12) Regulations on organization and performing of internal control and monitoring operations in Joint Stock Company for Public Railway Infrastructure Management "Infrastructure of Serbian Railways", Belgrade ("Official Gazette of Serbian Railways" No 13/2017);
- 13) Rules on office and archive administration in Joint Stock Company for Public Railway Infrastructure Management "Infrastructure of Serbian Railways", Belgrade ("Official Gazette of Serbian Railways" No 34/19);
- 14) Regulations on fire protection of public company "Serbian Railways" ("Official Gazette of Serbian Railways" No 4/2007);
- 15) Collective agreement for "Serbian Railways" Joint Stock Company ("Official Gazette of Serbian Railways" No 25/18);
- 16) Instructions for implementation of employee rights to compensation of costs for arriving to work and returning from work ("Official Gazette of Serbian Railways" No 7/15);
- 17) Regulations on scholarships ("Official Gazette of Serbian Railways" No 7/15);
- 18) Regulations on operation of fund for allocation of funds for preserving of work and health capacities of employees ("Official Gazette of Serbian Railways" No 8/15);
- 19) Instructions on the procedures for determining the responsibility for occurrence of damages inflicted by employees, while deciding on the rights, obligations and responsibilities, to other employees ("Official Gazette of Serbian Railways" No 10/15);
- 20) Regulations on the procedure for internal whistle blowing with the employer Joint Stock Company for Public Railway Infrastructure Management "Infrastructure of Serbian Railways", Belgrade ("Official Gazette of Serbian Railways" No 30/15);
- 21) Regulations on leasing of business premises, advertising space and space for accommodation of devices for telecommunication operators by "Infrastructure of Serbian Railways" JSC ("Official Gazette of Serbian Railways" No 12/16);
- 22) Internal Audit Charter for "Infrastructure of Serbian Railways" JSC ("Official Gazette of Serbian Railways" No 2/18);
- 23) Regulations on inventory taking and reconciliation of accounting condition with the actual condition ("Official Gazette of Serbian Railways" No 25/17);
- 24) Plan for optimization of staff numbers with the employer Joint Stock Company for Public Railway Infrastructure Management "Infrastructure of Serbian Railways", Belgrade ("Official Gazette of Serbian Railways" No 29/17);
- 25) Instructions for classification of used wooden railway sleepers of "Infrastructure of Serbian Railways" JSC ("Official Gazette of Serbian Railways" No 32/17);
- 26) Instructions for organization and recording of working hours ("Official Gazette of Serbian Railways" No 35/17);
- 27) Regulations on conditions for the use and maintenance of company vehicles of "Infrastructure of Serbian Railways" JSC ("Official Gazette of Serbian Railways" No 38/17);



- 28) Statutes of Joint Stock Company for Public Railway Infrastructure Management "Infrastructure of Serbian Railways", Belgrade ("Official Gazette of RS" No 60/15, 73/15 and "Official Gazette of Serbian Railways" No 14/17);
- 29) Long-term and medium-term plan for business strategy and development adopted by the Government of the Republic of Serbia ("Official Gazette of RS" No 82/17);
- 30) Regulations for more detailed regulation of public procurement procedure ("Official Gazette of Serbian Railways" No 16/16 and 66/17);
- 31) Internal plan for prevention of corruption in public procurements ("Official Gazette of Serbian Railways" No 16/16);
- 32) Regulations on recording, storing, movement and sales of inactive stocks and material obtained in the work process ("Official Gazette of Serbian Railways" No 16/16);
- 33) Instructions on the method for handling, warehousing, sales and handover of dangerous waste material ("Official Gazette of Serbian Railways" No 16/16);
- 34) Act on safety of ICT system of "Infrastructure of Serbian Railways" ("Official Gazette of Serbian Railways" No 18/18);
- 35) Instructions for safe and healthy work of employees with another employer, pupils and students in manufacturing work, professional practice, practical education and persons attending professional training at Joint Stock Company for Public Railway Infrastructure Management "Infrastructure of Serbian Railways", Belgrade ("Official Gazette of Serbian Railways" No 12/18);
- 36) Instructions for maintenance of rolling stock operated by "Infrastructure of Serbian Railways" JSC ("Official Gazette of Serbian Railways" No 7/18);
- 37) Instructions for drafting, adopting and publishing of internal documents ("Official Gazette of Serbian Railways" No 35/18);
- 38) Regulations on applying fire protection measures at locations of temporary welding, cutting and soldering at "Infrastructure of Serbian Railways" JSC ("Official Gazette of Serbian Railways" No 35/18);
- 39) Regulations on combined transport terminals on railway network and road routes for transport to and from combined transport terminals ("Official Gazette of RS" No 26/2018);
- 40) Regulations on types, marking method and more detailed technical conditions to be fulfilled by loading units, rolling stock and railway infrastructure in combined transport ("Official Gazette of RS" No 70/2018).

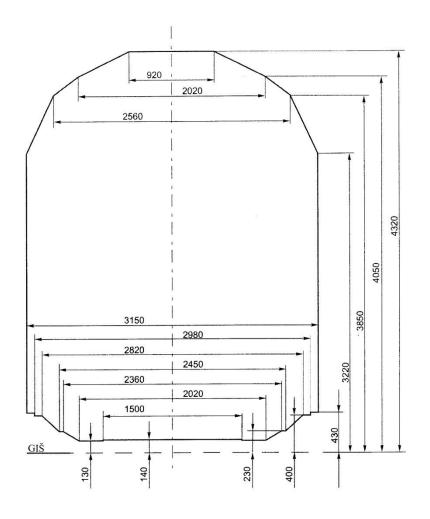


Appendix 3.1. Loading Gauge ZS I



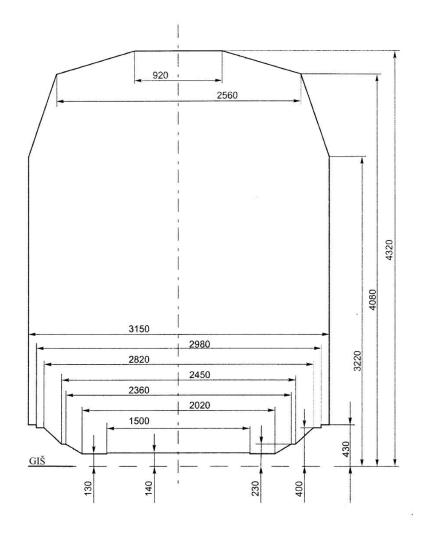


Appendix 3.2. Loading Gauge UIC-GA





Appendix 3.3. Loading Gauge UIC-GB





Appendix 3.4. Electrified lines

Main lines:

- 1. Beograd Centar Stara Pazova Šid State Border (Tovarnik)
- 2. Beograd Centar Rasputnica G Rakovica Mladenovac Lapovo Niš Preševo State Border (Tabanovce)
- 3. (Beograd Centar) Rakovica Jajinci Mala Krsna Velika Plana
- 4. (Jagodina) Rasputnica Ćuprija Ćuprija Paraćin
- 5. (Beograd Centar) Stara Pazova Novi Sad Subotica State Border (Kelebia)
- 6. Niš Dimitrovgrad State Border (Dragoman):
 - > electrified on section Dimitrovgrad State Border
- 7. Beograd Centar Pančevo glavna stanica Vršac State Border (Stamora Moravita):
 - electrified on section Beograd Centar Pančevo varoš
- 8. (Beograd Centar) Resnik Požega Vrbnica State Border (Bijelo Polje)
- 9. Beograd Ranžirna "A" Ostružnica Batajnica
- 10. Beograd Ranžirna "B" Ostružnica
- 11. Beograd Ranžirna "A" Rasputnica "B" Rasputnica "K/K1" Resnik
- 12. Ostružnica Rasputnica "B" (Rasputnica "K/K1")
- 13. Beograd Ranžirna "B" Rasputnica "R" Rasputnica "A" (Resnik)
- 14. (Beograd Ranžirna "B") Rasputnica "R" Rakovica
- 15. Beograd Ranžirna "A" Rasputnica "T" Rakovica
- 16. Beograd Ranžirna "B" Rasputnica "T" (Rakovica)
- 17. connecting track in the area of Rasputnica "K/K1": (Rasputnica "B") skretica "K" skretnica "K1" (Jajinci)
- 18. (Rasputnica Pančevački most) Rasputnica Karađorđev park Rasputnica Dedinje (Rasputnica G)
- 19. Inđija Golubinci
- 20. Novi Sad Novi Sad Ranžirna Rasputnica Sajlovo
- 21. bypass track of station Mala Krsna: (Kolari) branching turnout 1 branching turnout 28 (Osipaonica)
- 22. Rasputnica Lapovo Varoš Lapovo ranžirna Lapovo
- 23. Trupale Niš ranžirna Međurovo
- 24. Crveni krst Niš ranžirna
- 25. Niš Rasputnica most (Niš ranžirna)

Regional lines:

- 1. Topčider Putnička (4+195) Rasputnica G Rakovica
- 2. Novi Sad Odžaci Bogojevo:
 - electrified on section Novi Sad Sailovo
- 3. Stalać Kraljevo Požega:
 - electrified on section Kraljevo Požega
- 4. connecting track to station Požega: (Uzići) branching turnout No 53 branching turnout No 54 (Dragačevo)
- 5. Smederevo Rasputnica Jezava Radinac Mala Krsna
- 6. Mala Krsna Bor Rasputnica 2 (Vražogrnac):
 - electrified on section Mala Krsna Požarevac

Local lines:

- 1. Novi Sad Novi Sad ložionica:
 - electrified on section Novi Sad Blok 3 Novi Sad
- 2. Pančevo Varoš Pančevo Vojlovica



Appendix 3.5 Power supply facilities

No	Facilities	Chainage
	Line 1. Beograd Centar – Stara Pazova – Šid – State Border– (Tovarnik)	
1.	EVP Zemun	009+671
2.	PSN Batajnica	021+735
3.	PS Stara Pazova	035+000
4.	EVP Inđija	043+015
5.	PS Putinci	053+600
6.	PSN Ruma	066+245
7.	PS Sremska Mitrovica	081+700
8.	EVP Martinci	094+200
9.	PS Kukujevci	105+000
10.	PS Šid	116+400
Main 1	Line 2. Beograd Centar – Mladenovac – Lapovo – Niš – Preševo – State 3	Border– (Tabanovce)
11.	PSN Košutnjak	007+726
12.	PS Rakovica	008+656
13.	PS Kijevo	010+128
14.	EVP Resnik	014+020
15.	PS Klenje	024+800
16.	PSN Ralja	032+340
17.	PS Sopot Kosmajski	041+565
18.	EVP Mladenovac	053+100
19.	PS Glibovac	074+000
20.	PSN Mala Plana	084+350
21.	PS Plana	089+700
22.	EVP Markovac	099+345
23.	PS Lapovo Varoš	106+309
24.	PS Lapovo Putnička	109+207
25.	PSN Bagrdan	119+122
26.	EVP Jagodina	136+262
27.	PS Ćuprija	148+200
28.	PS Paraćin	154+971
29.	PSN Sikirica	165+025
30.	PS Stalać	176+154
31.	PS Braljina	186+600
32.	EVP Đunis	195+130
33.	PS Korman	205+540
34.	PS Aleksinac	214+077
35.	PSN Grejač	223+479
36.	PS Trupale	234+104
37.	PS Niš	243+287
38.	EVP Niš	248+755
39.	PS Doljevac	261+410
40.	PSN Pečenjevce	276+752
41.	PS Leskovac	287+910
42.	EVP Grdelica	300+580
43.		319+561
	PS Džep	
44.	PSN Suva Morava	332+860
45.	PS Vranjska Banja	347+765
46.	EVP Ristovac	365+370
47.	PS Bukarevac	386+617
48.	PSN Tabanovci	400+060



Main L	ne3. (Beograd Centar) – Rakovica – Jajinci – Mala Krsna – Velika Plana	
49.	PS Beli Potok	017+800
50.	PSN Vrčin	026+400
51.	PSMali Požarevac	042+800
52.	EVP Vodanj	056+700
53.	PS Mala Krsna	070+600
54.	PSN Lozovik	086+000
Main Li	ne 4. (Beograd Centar) – Stara Pazova – Novi Sad – Subotica – State Bor	der– (Kelebia)
55.	PS Inđija	042+230
56.	PSN Beška	051+880
57.	PS Sremski Karlovci	066+480
58.	PS Novi Sad	077+670
59.	EVP Novi Sad	081+0209
60.	PS Kisač	091+602
61.	PSN Zmajevo	105+045
62.	EVP Vrbas	120+135
63.	PS Lovćenac	127+824
64.	PSN Bačka Topola	142+745
65.	PS Žednik	157+926
66.	EVP Naumovićevo	168+590
67.	PS Subotica	177+262
68.	PSN Kelebija	184+398
Main L	ne 6. Beograd Centar – Pančevo glavna stanica – Vršac – State Border – (Stamora Moravita)
69.	PS Beograd Centar	000+000
70.	PS Pančevački Most	004+687
Main Li	ne 7. (Beograd Centar) – Resnik – Požega – Vrbnica – State Border– (Bij	jelo Polje)
71.	PS Barajevo	015+420
72.	PSN Stepojevac	029+610
73.	PS Lazarevac	045+310
74.	EVP Slovac	059+248
75.	PS Valjevo	077+905
76.	PSN Lastra	093+056
77.	PS Ražana	111+239
78.	EVP Kosjerić	118+229
79.	PS Požega	140+420
80.	PSN Uzići	150+295
81.	PS Užice – teretna	162+319
82.	EVP Sušica	178+379
83.	PS Zlatibor	193+407
84.	PSN Jablanica	206+350
85.	PS Priboj	225+338
86.	EVP Pribojska Banja	232+750
87.	PS Bistrica	241+248
88.	PSN Prijepolje	257+226
89.	PS Lučica	264+695
90.	EVP Brodarevo	273+360
91.	PS Vrbnica	285+096
Main L	ne 12. Beograd Ranžirna "A" – Ostružnica – Batajnica	
92.	PS Železnik – ulaz	001+290
93.	PS Železnik – izlaz	002+615
94.	PSN Surčin	013+485



Regiona	Line 11. Stalać – Kraljevo – Požega	
95.	EVP Kraljevo	080+565
96.	PSN Ovčar Banja	120+900

Remote	control centers	
97.	Centar DU Beograd	M2: 005+145
98.	Centar DU Niš	M2: 243+560
99.	Centar DU Novi Sad	M4: 078+038

Abbreviations:

EVP - Electric traction substation

 $\ensuremath{\mathbf{PSN}}$ - Track sectioning post with neutral line

PS - Track sectioning post

CDU - Remote control center



Appendix 3.6 Overview of signaling & safety devices equipping level

	Stuomut To gainotitized family of fund of the dampt and for the da	24													I																						I					
g yards	Ccentral positioning of turnout on the hump	23																																	- 3876							
Devices in marshalling yards	To gainoitized altsamotuA quand adt no tuomut	22	77													33	cc																									
Devices	Marshalling yards without automatic marshalling	21	177								Ī					-	-												-													
	Marshalling yards with automatic marshalling	00	0.7																																							
Signal equipped	Mechanicalsignal	10	Ŷ.																																							
Signal	S Light signal	18	16	200	363	170	187		111	203			9	10	٦ ,	4	,	7	2	2	9	9	2			4		2	± -	4												
Other	Mechanical signal	17	7.7				2	20			30	30	OI IO																			4	20	5	×	=	1		6	==		
21	- Jo	16	217	100	196	66	73	3	103	177	-	+	2 2	9	-		† (4	-	- -	1		Н		m	4	- 4		28	2	m		Π	S	7	4	+		14	43		+
Main	S S S S S S S S S S S S S S S S S S S	15	-		_	_	2	20	9 19	-	7.5	+	4	Н	+	╀	+	+	4	+	1		Н		L		H	-	\coprod		+	=	26	7	×	=	ĝ		10	=		\perp
	Z Ispa signal	14	182		419	160	292	25	113	307	0,0	01	6 6	10	21	1	0 (3 1	2	2	9	9	2		9	4	- 4	. 2	48	1	7	+	17	16	15	00	-		23	64		╀
mout heating	Gas	_			9	_	,-			+		+	<u> </u>		+			-	+		<u> </u>																\downarrow			\downarrow		
T In	means of tumout lock	17	6 40	H	180	75	138 85		7 79	104					+	-	-	1	+	+	<u> </u>	6	H		39+6	2			36 3		6	7	23	2	0		-		2	52		-
Δ	On-site control and interlocking by	-	70	,	- 18	1	13		87		217	2 0	ró	Н	-	-	+	1	_	+	-				39-		i		36		-	2,	253	32	00	73	- 2		92	19		Ļ
9	On-site control and interlocking by means of electrical controller	10	10				25																						\prod								\perp			\perp		
Tuniour micro	Central control desk and interlocking by means of mechanical devices	0					4		∞			63	60																			4		7		∞	į.					
I	Central control desk and interlocking by means of electrical positioning devices	×	341	200	639	151	171		116	306	91	01	61		32	4				- "	132	3				4			4 5	001	4		7	19	6	,	T		∞	22		
1	Mechanical devices without signal furmout dependence	7		l	1	+	1	9	5		4	C.	\dagger	H	+		+	+	\dagger		t		H				\dagger		\parallel	\parallel		-	6	9			+	\parallel	2	-		t
	Electrical devices without signal- furnout dependence	9	-		-	+	2	12	1		-	+ -	+	H	+		+	+	+	+					-		-		$\dagger \dagger$				е	-	2	-		H	7	-		T
ч	Electrical-mechanical devices with gignstein against a signal-turnout dependence	5	,	,	1			27	1		,	- 0													2			2	-			-		-		2	1		2	7		Ī
	gnizoonatui yalar atalquiooni	4	-																															-			_			<u> </u>		I
10	Complete interlocking with relay of electronic devices		15		55	15	17	2	5	34	·	4	-		2	-	-			-	-	-							2		-		1	-	-	1			1	×		
	RAILWAY LINES	·	Beograd - Stara Pazova - Šid - State Border - (Tovamik)		Tabanovce)	Beograd) - Rakovica - Jajinci - Mala Krsna - Velika Plana	Beograd) - Stara Pazova - Novi Sad - Subotica - State Border -	Niš - Dimitrovgrad - State Border - (Dragoman)	Beograd Centar - Pančevo glavna stanica - Vršac - State Border - Stanora Moravita)	(Bijelo Polje) - State Border - (Bijelo Polje)	Lapovo - Kraljevo - Lešak - Kosovo Polje - Beneral Janković - State	Border - (Volkovo)	Subolica - Bogojevo - State Border - (Erdut) Beograd Centar - Novi Beograd	Beograd Centar - Rasputnica G - (Rakovica)	Beograd Ranžirna "A" - Ostružnica - Batajnica	Ogiau Nanzinia D - Osiuzinea	Deograd Kalizinia A - Kasputinica D - Kasputinica K/K1 - Kesilik	Ostruzinca - Kaspitinca B - (Kaspitinca KALI)	Beograd Ranzirna "В" - Rasputmea "R" - Rasputmea "A" - (Resmk)	Beograd Ranžirna "B") - Rasputnica "R" - Rakovica	Beograd Ranžima "B" - Raspunica "T" - (Rakovica)	vezni kolosek na području Rasputnice "K/K1"; (Rasputnica "B") - skretnica "K" - skretnica "K1" - (Jajinci)	Forcinga Parentinga Savski most - (Novi Beograd)	Topčider - Beograd spoljna - Beograd Dunav - Rasputnica Pančevački most	Politarii kolosek stanice Beograd Spoljna: (Topčider) - Blok 1 "Obala" - Blok 2 "Prelaz" , Beograd donij grad)	(Rasputnica Pančevački most) - Rasputnica Karadordev park - Rasputnica Dedinie - (Rasputnica G)	India - Golubinci Novi Sad - Novi Sad Bamžirna - Basmunica Sailovo	obilazni kolosek stanice Mala Krsna; (Kolari) - odvojna skretnica 1 -	Resputing Lapovo Varios provo ranžima - Lapovo Trumba - Nië rapovo - Modurovo	Civeni kıst - Niš ranžima	Nis - Kasputnica most - (Nis ranžirna) Spojni kolosek stanice Niš; (Crveni krst) - odvojna skretnica 2 - odvojna	Skretinca 4 - (Cele kula). Subotica - Horgoš - State Border - (Roszke)	Pančevo Glavna stanica - Zrenjanin - Kikinda - State Border - (Jimbolia)	Banatsko Miloševo - Senta - Subotica	Pančevo Varoš - Rasputnica 2a - (Jabuka) Novi Sad - Odžaci - Bogojevo	(Novi Sad) - Rasputnica Sailovo - Rimski šančevi - Orlovat stajalište	Novi Sad Ranžirra - Sailovo Rasputnica	dovat - Rasputnica 1a - (Lukićevo)		(Platičevo) - Rasputnica 1 - Rasputnica 3 - (Štitar) Stalać - Kralievo - Požega	spojni kolosek stanice Kraljevo: (Mataruška Banja) - odvojna skretnica hroj 72 - odvojna skretnica broj 73 - (Adrani)	spojni kolosek stanice Požega: (Uziči) - odvojna skretnica broj 53 -
_	Railway Line No	10		_	102 (Ta	(B)	104 (K	105 Nis	106 Be	107 (Bc	100 Laj		07 Be	08 Be	13 Bc	9 9	$\overline{}$	_	116 Be	12 (B	19 Be	120 vez	121 To	122 To	28 obj	31 (Ra	125 Ind	$\overline{}$	128 Ra	1	131 Sp	S	202 Par		204 Par	1	-	20	$\overline{}$	210 (PL 211 Sta	212 spc	313 Spc
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		Manual positioning of turnouts on the hump	2	24											L																							\perp	\downarrow			Ц			0
	g yards	Decentral positioning of turnout for grain of turnout for the formul and the form	umber of turns	23																																									0
	Devices in marshalling yards	No gainoitise positioning of quant off no hooring	Z.	22																						- 34																		Ī	32
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Turnout interlocking	am morning	Central control desk and interlocking by means of mechanical devices	Number of t	6	-	∞																																							103
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ľ	-le	Mechanical devices without signa turnout dependence		۲,	5	14	İ	-	1					-	T				8	-		,	9			-			1	·	4				1	,	7	T	T	Ī		-	1	T	94
ŀ		Electrical devices without signal- turnout dependence	OIIS	9	0	-						-			Ī				1	-	-			1		-	-		1		+					1		T	T			П	Ť	T	55
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	10 /	Complete interlocking with relay electronic devices	,	3	10	2	4	-										2																											187
		RAILWAY LINES		2	Maia Krsna - Bor - Kaspurnica 2 - (Vrazogrnac)	Crveni krst - Zaječar - Prahovo pristanište	Oplievac - Kastrat - Kosovo Polie	Kuršumlija - Kastrat	(Barlovo) - Rasputnica 1 - Kuršumlija	Kosovo Polje - Metohija - Peć	Kosovo Polje Teretna - Rasputnica 1 - (Drenica).	Subotica - Subotica fabrika	Subotica - Subotica bolnica	Novi Sad - Novi Sad Iožionica	(Podbara) - Rasputnica 3 - Rasputnica 2 - (Kać)	Rimski šančevi) - Rasputnica 1 - Rasputnica 3 - (Podbara)	Rimski šančevi - Bečej	Vrbas - Sombor	Petrovaradin - Beočin	Apatin Fabrika - Strilić - Sombor	Date - Natavinovo Davie Belenter Goldeben	Backa Fatalika - Oajuobia Brasina) - Rasmitnica Donia Borina - Zvornik Grad	Šid - Sremska Rača Nova - State Border - (Bijeljina)	Kikinda - Banatsko Arandelovo	Sečanj - Jaša Tomić	Zrenjanin Fabrika - Vršac - Bela Crkva	Pančevo Varoš - Pančevo Vojlovica	spojni kolosek stanice Senta: (Čoka) - odvojna skretnica 22 - odvojna	skretnica 23 - (Orom)	(Pozarevac) - Kasputnica Sopot Pozarevacki - Kostolac	Ovča - Padinska Skela	Metohija - Prizren.	Bečej - Vrbas	Vršac - Vršac Vašarište	Alibunar - Seleuš	Vladimirovac - Kovin	Coka - Novi Knezevac Kibinda - Motanoleko einkotni kommloke (km 6±413)	Kikinda - Metanoisko sircetin kompieks (km 0+413) Bogojevo - Dunavska obala	Bogojevo - Dunavska obata Sombor) - Rasputnica Strilić - Bački breg	Sombor - Ridica	(Višnjićevo) - Rasputnica Rača - Sremska Rača	Paraćin - Stari Popovac	Surčin - Jakovo Bečmen	(Beograd spoljna) - km 2+290 odvojna skretnica - Fabrika secera Šarganska osmica	Total:
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1	la	2	kı 3	n 4	kom 5	6 k	m 7	8	9	10	- 11	12	pcs 13	14	15	16	17	18	19	m 20	21	pcs 22	23
	101	Beograd - Stara Pazova - Šid - državna granica -						61	120	120	14	12								97+918	1	5	6
1		(Tovarnik) Beograd - Mladenovac - Lapovo - Niš - Preševo -	£ 1000		٠,		11.150			200										200000000000000000000000000000000000000			1.5
2	102	državna granica - (Tabanovce)	6+000		1		14+150	195	443	289	37	53	1	1	2		8	4			2	38	15
3	103	(Beograd) - Rakovica - Jajinci - Mala Krsna - Velika Plana				93+143		41	81	81	11	3					1				1	12	4
4	104	(Beograd) - Stara Pazova - Novi Sad - Subotica - državna granica - (Kelebia)	15+020		4	133+722		61	121	121	15	8			2	1	1	2					
5	105	Niš - Dimitrovgrad - državna granica - (Dragoman				16+100		6	11		5	7			3	4	7	4					
6	106	Beograd Centar - Pančevo glavna stanica - Vršac - državna granica - (Stamora Moravita)	82+200	19+070	14		19+600	10	26	26	4	2					8	1					
	107	(Beograd) - Resnik - Požega - Vrbnica - državna	287+013		33						3	9	1	15					287+013		1	26	9
7		granica - (Bijelo Polje) Lapovo - Kraljevo - Lešak - Kosovo Polje - Đeneral												••			_						**
8	108	Janković - državna granica - (Volkovo	(0.000		47						3		2		1		7	4				Ц	\vdash
9	109 110	Subotica - Bogojevo - državna granica - (Erdut Beograd Centar - Novi Beograd	69+820		11		2+887	2	4	4	1	5	1				11	10					
11 12	111	Beograd Centar - Rasputnica G - (Rakovica Beograd Ranžima "A" - Ostružnica - Batajnica				25+658	4+416	4 14	8 26	8 26	1	1									1	П	2
13		Beograd Ranžima "B" - Ostružnica				5+902		2	2	20	1	1									1		
14	114	Beograd Ranžima "A" - Rasputnica "B" - Rasputnica "K/K1" - Resnik				10+419		4	8	8	1						1					1	1
15	115	Ostružnica - Rasputnica "B" - (Rasputnica "K/K1")				2+121		1	2	2													
16	116	Beograd Ranžirna "B" - Rasputnica "R" - Rasputnica "A" - (Resnik)				4+538		2	2	2													
17		(Beograd Ranžirna "B") - Rasputnica "R" - Rakovica				1+149																	
18 19		Beograd Ranžima "A" - Rasputnica "T" - Rakovica Beograd Ranžima "B" - Rasputnica "T" - (Rakovica)				0+709 8+379		3	5	5													
		vezni kolosek na području Rasputnice "K/K1": (Rasputnica "B") - skretnica "K" - skretnica "K1" -				0+463																	
20		(Jajinci)																					
21		Topčider - Rasputnica Savski most - (Novi Beograd Topčider - Beograd spoljna - Beograd Dunav -				3+578		1	1		-											\vdash	
22	122	Rasputnica Pančevački mos				6+257	4+519									1	0	0					
23	123	obilazni kolosek stanice Beograd Spoljna: (Topčider) - Blok 1 "Obala" - Blok 2 "Prelaz" - (Beograd donji grad)				1+757											1						
	124	(Rasputnica Pančevački most) - Rasputnica Karadorđev					1+591												0				
24	19991	park - Rasputnica Dedinje - (Rasputnica G)					1,371																
25 26		Indija - Golubinci Novi Sad - Novi Sad Ranžima - Rasputnica Sajlovo	4+020 3+749		2	4+020		2	4	4									4				
27	127	obilazni kolosek stanice Mala Krsna: (Kolari) - odvojna skretnica 1 - odvojna skretnica 28 - (Osipaonica)				2+387					1												
	128	Rasputnica Lapovo Varoš - Lapovo ranžirna - Lapovo					3+788																
28 29	129	Trupale - Niš ranžirna - Međurovo				1+220		2	3	1													
30 31		Crveni krst - Niš ranžirna Niš - Rasputnica most - (Niš ranžirna)				17+100 4+990	1	1 4	7		1	1											F
	131	Spojni kolosek stanice Niš: (Crveni krst) - odvojna				0+500		1	1		1	2											
32	0	skretnica 2 - odvojna skretnica 4 - (Ćele kula) Subotica - Horgoš - državna granica - (Roszke)	24+351		5	5.500					3	-					2	2					\vdash
	202	Pančevo Glavna stanica - Zrenjanin - Kikinda - državna			14						4	10			1		11	4					П
34 35		granica - (Jimbolia) Banatsko Miloševo - Senta - Subotica	80+264		14							1					2	2					
36 37	204	Pančevo Varoš - Rasputnica 2a - (Jabuka)	1+600		1										1		7					П	
	205	Novi Sad - Odžaci - Bogojevc (Novi Sad) - Rasputnica Sajlovo - Rimski šančevi -	89+457 65+405		10							1			1		4	3				Н	
38	206	Orlovat stajalište Novi Sad Ranžirna - Sajlovo Rasputnica	2+502		1				-			1					+	3				Н	
40		Orlovat - Rasputnica 1a - (Lukićevo)	0+630		1																		
41	209	Ruma - Šabac - Rasputnica Donja Borina - državna granica - (Zvornik Novi)				101+951						3			4	3	3	6					
42	210	(Platičevo) - Rasputnica 1 - Rasputnica 3 - (Štitar)																					
43	211	Stalać - Kraljevo - Požega				135+733						2	1		2		4	5					
44	212	spojni kolosek stanice Kraljevo: (Mataruška Banja) - odvojna skretnica broj 72 - odvojna skretnica broj 73 - (Adrani)																					
45	213	spojni kolosek stanice Požega: (Uzići) - odvojna skretnica broj 53 - odvojna skretnica broj 54 -																					
46		(Dragačevo) Smederevo - Mala Krsna				11+742					1		1		1		2	2					
47 48	215	Mala Krsna - Bor - Rasputnica 2 - (Vražogrnac) Crveni krst - Zaječar - Prahovo pristanište										1			1		7	1				П	
49	217	(Rgotina) - Rasputnica 3 - Rasputnica 1 - (Trnavac)										1					1	1					
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		RAILWAY LINE	line	cline	etween	line	Lline	ts		ipped with	ba	arrier or rier udinal		colour	elect	rical ices		anical ices	line	. line	trol centers	trol stations	ontrolled
	Railway Line No		Length of single track line	Length of double track line	Number of distances between stations	Length of signle track line	Length of double track line	Number of block points	Number of signals	Number of signals equipped with auto-stop devices	ın station	on track	in station	on track	ın station	on track	in station	on track	Length of signle track line	Length of double track line	Number of remote control centers	Number of remote control stations	Number of remotely controlled stations
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52	220	(Barlovo) - Rasputnica 1 - Kuršumlija		-	-		-			10	11	12	1.0	1.7	13	10	17	10	17	20	21		20
53		Kosovo Polje - Metohija - Peć																			\Box	\Box	
54												8										\sqcap	
55		Subotica - Subotica fabrika	4+100		1									1				4				\Box	\Box
56	302	Subotica - Subotica bolnica	2+745		1																	П	
57		Kanjiža - Horgoš										0											
58		Novi Sad - Novi Sad ložionica	2+870		1										2			1					
59	305	(Podbara) - Rasputnica 3 - Rasputnica 2 - (Kać)	3+659		2																		
60	306	(Rimski šančevi) - Rasputnica 1 - Rasputnica 3 - (Podbara)	0+910		1																		
61	307	Rimski šančevi - Bečej										0			1		9						
62	308	Vrbas - Sombor									1	1			2		1	1					
63		Petrovaradin - Beočir	17+035		3												2	2				\Box	
64		Apatin Fabrika - Strilić - Sombor	38+304		4							-					1	2				\sqcup	
65		Bač - Karavukovo	13+420		2										1		1					\Box	
66		Bačka Palanka - Gajdobra	14+422		2												2	4			Ш	\vdash	-
67	313	(Brasina) - Rasputnica Donja Borina - Zvornik Grac				6+818						-									Ш	\vdash	-
68	314	Šid - Sremska Rača Nova - državna granica - (Bijeljina)				25+612												2					
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70		Sečanj - Jaša Tomić	10+363	_	1																Ш	\vdash	
71		Zrenjanin Fabrika - Vršac - Bela Crkvε	65+3348		4	2 1						1					4	-				\vdash	_
72		Pančevo Varoš - Pančevo Vojlovica	2+907 0+488	-	2				-			1			1	3		-			-	\vdash	-
73	319	(Uljma) - Rasputnica A - Rasputnica B - (Jasenovo)		_	1						_		_								Н	\vdash	-
74	320	spojni kolosek stanice Senta: (Čoka) - odvojna skretnica 22 - odvojna skretnica 23 - (Orom)																					
75		(Požarevac) - Rasputnica Sopot Požarevački - Kostolac				9+900																	
76 77		Markovac - Resavica	10.500			53+250		-	-			1		1	1		3	4			\vdash	\vdash	-
78		Ovča - Padinska Skela	18+580		1	18+580		\vdash				3									\vdash	\vdash	
79		Metohija - Prizren. Bečej - Vrbas						\vdash									1				\vdash	\vdash	-
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83		Čoka - Novi Kneževac	12+300		2			\Box									1	-			\vdash	\vdash	\neg
84	406	Kikinda - Metanolsko sirćetni kompleks (km 6+413	7+255		1																П	П	
85	407	Bogojevo - Dunavska obala	2+733		1																П	\Box	
86	408	(Sombor) - Rasputnica Strilić - Bački breg	28+090		1							2											
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90	412	Surčin - Jakovo Bečmei				4+400																\square	\Box
91	413	(Beograd spoljna) - km 2+290 odvojna skretnica - Fabrika šećera				0+600																	
92	501	Šarganska osmica																					
1		Total			161			416	876	699	107	127	7	18	28	12	115	76			6	82	37



Appendix 3.7 Overview of telecommunication devices equipping

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	aph			Telefaxes	bcs	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	=
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				Others	bcs	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	126
			nes	At automatic block (APB)	bcs	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	397
			Trackside telephones	At level crossings (PP)	bcs	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0 0	0	0	0	0	0	0	0	0	0	0	284
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FINAL	Tele	Traff		PA telephones	cs bc	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	8
				PPA telephones			0 0	-	+	+	-	+	+		+	0	+	0 0	-	-	0	200	+	\vdash	0	0 0	0 0	0	0 0	0 0	0 0		0	
			_		H	7		_	+	+	-	+	+	+	+					1	-	+	+										+	22 96
				Secretary sets		9	0		+	+	+	+	+	0	+	0		0		+	+		+	H	0	0	0	0	0	0	0		0	182
				Automatic telephone devices	_		0	-	+	+	+	+	+	0	+	0	0	-	+	+	0	4 0	+	H	0	0	0	0	0	0	0		0	4598
				CB telephone devices	-	4	0	+	+	+	-	+	+	0	+	0	+	0	+	+	+		+	\vdash	0	0	0	0	0	0	0	H	0	797
L				LB telephone devices	bcs	3	0	0	٥	0	0	0	0	0	0	0	0	3	0	٥	0	2	0	0	0	0	0	0	0	0	0	0	0	880
				RAILWAY LINE	Кат	2	306 (Rim. Šančevi)-Rasput "1"-Rasput. "3"-(Podb.)	308 Vrbas-Sombor	309 Petrovaradin-Beočin		311 Bač-Karavukovo						317 (Zrenjanin)-Zrenjanin fabr.Vršac-Bela Crkva	318 Pančevo Varoš-Pančevo Vojlovica	319 (Uljma)-RaspA-RaspB-(Jasenovo)	320 Senta-Odvojna skr. 22 Senta	321 (Požarevac)-Rasput.Sopot PožKostolac	522 Markovac-Resavica	403 Alibinar-Selenš	Vladimirovac-Kovin	405 Čoka-Novi Kneževac	406 Kikinda-MKS (ind.kolosek)	407 Bogojevo-Dunavska obala	408 Sombor-Bački Breg	409 Sombor-Ridica	410 (Višnjićevo)-Rasput.Rača-Sremska Rača	411 Paračin-Stari Popovac	412 Surčin-Jakovo-Bečmen-(Boljevci)	413 (Bgd spoljna)-km 2+290-Fabrika šećera	Total:
					οN	1	45	-	-	-	-	-	+	-		7.1		67	-	-	-	60	+	+	65	19	88	72	7.3	62	Н	\rightarrow	22	



Particular property of the particular property												OTHER	OTHER TELECOMMUNICATION DEVICES	AMUNIC	ATION D	SVICES									
Part All Market		Devic	ses for re	atements	f transmitte	Þ	Devices d	isplaying a	ccurate tin	20		PA devi	ices			Interphone	s		Power st	ıpply devic	sac	Passer	nger visual	informati	on display
	oV ənii yawlıs	8 channels	12 channels					Master clocks	siobrianagai asluqml	Auxiliary clocks	Number of statons	sıəililqmA											Control desks	sysiqsib noitsmroini	Information kiosks
		pcs 33	34 pc	+	+	1	+	36	pcs 40	pcs 41	pcs 42	pcs 43			+		+	70 -		-		pcs 54	pcs	pcs 56	pcs 57
18 District Control Contro		1	1		0	\vdash	Н	1	13	5	13	22	H	H	H	H	H	_	İ		H	10	0	0	0
11		9	2	0	-	9	2	21	78	323	20	50		20	9	4 3	8 I.	7 72		1 0	1	1	1	4	0
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No. No. No. No. No. No. No. No. No. No.	106	1 2	0 0		0 0	34	0 3	34	34	92	7	52	_	9	+						+	0 5	e 0	0 93	0 0
11	108	-	0	+	0	6	0	8	0	18	8	6	+	0	+	+		+		9	0	0	0	0	0
11	108	0 0	0 0	0 0	0 0	0 0	0 0	0 -	0 -	0 6	0 4	0 1	0 22	0 9	0 0					0 0	0 0	0 0	0 0	0 0	0 0
11 12 12 12 12 12 12 12	Ξ	0	0	+	0	0	0	0	0	0	0	0	0	0	0	+	0	0		0	0	0	0	0	0
11 11 11 11 11 11 11 1	112	0 0	0		0 0	0	0	0	0	4 0	0	0 0	0	0	0		0	3		0 0	0 0	0 0	0 0	0 0	0
11	1114	0	0		0	0	0	0	0	0	0	0	0	0	0	H	0				0	0	0	0	0
11.11	115	0 0	0 0		0 0	0 0	0 0	0 -	0 0	000	0 0	0 4	0 00	0 -	0 0		0 0	0 -	- "	0 0	0 0	0 0	0 0	0 0	0 0
10	117	0	0		0	0	0	0	0	0	0	0	0	0	0		0	0	3	0	0	0	0	0	0
11	118	0 0	0 0	+	0 0	0 0	0 0	0	0 0	13	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		0 0	0 0	0 0	0 0	0 0	0 0
13.1	120	0	0	0	0	0 00	0	3	0	10	0	4	31	2	0	0	0		12		0	0	0	0	0
11.11 Michaely Signational Activity Signature Michaely Signature Micha	121	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	2		0	0	0	0	0	0
151 Michael September 152 Michael September 153 Michael September 154 Michael September 154 Michael September 154 Michael September 155 Michael Se	122	0 0	0 0	+	0 0	0 0	0 0	0 0	0 0	6	0 0	- 0	0 0	- 0	0 0	0 0	0 0	0 0		0 0	0 0	0 0	0 0	0 0	0 0
1 1 1 1 1 1 1 1 1 1	124	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0
123. Displace Missing M	125	0 0	0 0	+	0 0	0 0	0 0	0 0	0 -	0 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 -		0 0	0 0	0 0	0 0	0 0	0 0
121 Patrola Vinochi Lapovo 121 Patrola Vinochi Lapovo	127	0	0	H	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	3	00	0	0	0	0	0
131 Contact Recommendation 132 Contact Recommendation 133 Contact Recommendation 134 Contact Recommendation 134 Contact Recommendation 134 Contact Recommendation 135 Contact Recommendation	128	0	0	Н	0	0	0	2	2	3		1	2		0	0	0	ε (0	0	0	0	0	0
131 (Schrick-Schrick	130	0	0		0	0	0	0	0 0	0	0	0 0	0 0	0	0 0	00	0 0	0	, 3	0 0	0 0	0	0 0	0	0
Note Note	131	0 0	0	Н	0 0	0	0 0	0	0 0	0	0 0	0	0 0	0 0	0 0	0 0	0	0		000	0	0 0	0 0	0	0
No. No. No. No. No. No. No. No. No. No.	201	0	0		0	0	0	-	0	3 0	0	1	3 0	1	0	0	0	2	2	0 0	0	0	0	0	0
3.14 Interval of Interval Control Contr	202	- 0	0	+	0 0	0 0	0 0	0	0	0	2	2	7	2	0		0 0	2		0 0	0 0	0 0	0	0 0	0 0
200 Column Column <td>204</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>9</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	204	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0
2.0. N. Sad Barkerian-Salvane Parametria protestate Portain Parametria protestate Portain Parametria protestate Portain Parametria Parametr	205	0	0		0	0	0	0	0	0	0 0	0	0	0	0		0 0	0		0 0	0	0 0	0	0	0
208 Choice-Resignation: **I****-Luskécvo) 0	207	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0
2.11 Stark-K-Keljev-Pokoga 1.1 Stark-K-Keljev-Pokoga 1.1 Stark-K-Keljev-Pokoga 1.1 Stark-K-Keljev-Pokoga 1.1 Stark-K-Keljev-Pokoga 1.1 Stark-K-Keljev-Pokoga 1.1 Stark-K-Keljev-Pokoga 1.1 Stark-K-Keljev-Pokoga 1.1 Stark-K-Keljev-Pokoga 1.1 Stark-K-Keljev-Pokoga 1.1 Stark-K-Keljev-Pokoga 1.1 Stark-K-Keljev-Pokoga 1.1 Stark-Keljev-Pokoga	208	0 0	0	0 0	0 0	0 0	0 0	0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0	0 0	0 0		0 0	0 0	0 0	0 0	0 0	0 0
2.13 Mixture Mi	211	0	0	Н	0 0	2	0	2		41 6	. 3	2	20		0	0 0	0	17	2	0	0 0	0	0	0	0
210 Misk-Zajgezer Pathovo pristantiste 0	215	0	0		0	7 8	0	2	7	10	3	4	22	3	0	0	0	18		0	0	0	0	0	0
2.19 (Kankmilds)-Karkert Kantan-Norsky Polys 2.19 (Kankmilds)-Karkert Kantan-Norsky Polys 2.19 (Kankmilds)-Karkert Kantan-Norsky Polys 2.19 (Kankmilds)-Karkert Kantan-Norsky Polys 2.19 (Kankmilds)-Karkert Kantan-Norsky Polys 2.19 (Kankmilds)-Karkert Kantan-Norsky Polys 2.19 (Kankmilds)-Karkert Kantan-Norsky Polys 2.10 (Kankmilds)-Karkert Kantan-Norsky	216	0	0		0	1	0	- 0	0	0	1	2	20	1 0	0	0	0	5		0	0	0	0	0	0
230 (Barktov-D-Agagantica "1"-Kargantija" 0	218	0 0	0 0	+	0 0	0	0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0			0 0				0 0	0 0	0 0	0 0
301 Subtotes-Subtotice flathkish 0 <	220	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
343 National Assignation Standing	301	0	0		0	0	0	0	0	0	0	0	0	0	0) 0	0	0	5	0	0	0	0	0	0
304 Novi Skal-Novi Skal	303	0	0	+	0	0	0	0	0	0	0 0	0	0 0	00	0	0	0	0			0	0	0	0	0
306 (Rinkmarkshaptu."3"-Rhaptu."3	304	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	1		0	0	0	0	0	0
308 Vriess-Sombor Vriess-Sombor 0	305	0 0	0 0	+	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		0 0	0 0	0 0	0 0	0 0	0 0
310 South-exametin-Bockin. 0 </td <td>308</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	308	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
310 Solution Human-Sammed-Solution 2	309	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0 0				+		0 0	0	0	0
312 Backa Palanka-Gajdobra 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	311	0	0		0	0	0	0	0	0 0	0 0	0 0	0 0	0 0	0 0	0		<u> </u>				0	0	0	0
	312	0	0	-	+	0	0	0	0	0	0	0	0	0	0	0	0	0		-	0	0	0	0	0



	lays		ş	7	_															-			ner.		_	П	121
	tion disp.	Information kiosks		57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Passenger visual information displays	sysiqsib noitsmrolni	bcs	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97
	ger visual	Control desks	bcs	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
	Passeng	Number of stations	bcs	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
		Motor electric generator units	bcs	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
	devices	Сопуенега	bcs	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
	Power supply devices	Rctifiers	bcs	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	379
	Pov	Acummulator batteries	bcs	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	328
		For outdoor installation	bcs	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
S	ones	For indoor installation	bcs	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
DEVICE	Interphones	Іпетрһопе ехећапве units	bcs	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
OTHER TELECOMMUNICATION DEVICES		Number of stations	bcs	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
NUMMC		Microphone console	bcs	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
Y TELEC	rices	Speakers	bcs	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1886
ОТНЕ	PA devices	zrəñilqmA	bcs	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	183
		Number of statons	bcs	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	9	Auxiliary clocks	bcs	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	941
	curate tim	Impulse regenerators	bcs	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	178
	Devices displaying accurate time	Master clocks	bcs	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101
	vices disp	Clock exchange units	bcs	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
	De	Number of stations	bcs	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94
	smitted	24 channels	bcs	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
	ng of tran	16 channels	bcs	35	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	vo
	Devices for recording of transmitted statements	12 channels	bcs	34	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	vo
	Devices f	8 channels	bcs	33	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
		RAILWAY LINE		2	3 (Ruma)-Rasp. Donja Borina-Zvornik Grad	4 Šid-Sremska Rača Nova-State Border.	5 Kikinda-Banatsko Arandelovo	316 Sečanj-Jaša Tomić	7 (Zrenjanin)-Zrenjanin fabr. Vršac-Bela Crkva	8 Pančevo Varoš-Pančevo Vojlovica		.0 Senta-Odvojna skr. 22 Senta	1. (Požarevac)-Rasput.Sopot PožKostolac	2.2 Markovac-Resavica	3 Ovča-Padinska Skela	3 Alibunar-Seleuš	4 Vladimirovac-Kovin	5 Čoka-Novi Kneževac	6 Kikinda-MKS (ind.kolosek)		8 Sombor-Bački Breg	9 Sombor-Ridica	0 (Višnjićevo)-Rasput.Rača-Sremska Rača	1 Paraćin-Stari Popovac	2 Surčin-Jakovo-Bečmen-(Boljevci)	413 (Bgd spoljna)-km 2+290-Fabrika šećera	Total:
		oV anil yewli			313	314	315	316	317	318	319	320	321	322	323	403	404	405	406	407	804	409	410	411	412	Н	
			οN	-	46	52	09	71	81	67	78	48	70	63	99	53	80	59	61	58	72	73	79	89	17	57	



Г		In-ground amplifiers	bcs	27	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0 0	0	0	0 0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0
		Above ground amplifiers	pcs p	26 2	0	0	0	0	0	0	0	+	+	Н	0 0	0	0	0	0 0	0	0	0 0	0	0	0 0	+	0	0 0	0	0	0 0	-	0	+	0	0	Н	+	0 0	+	+	0	0	0	0	\vdash
				25	0	0	0	0	0	0	Н	+	0	Н	0 0	+	0	0	+	+	0	0 0	0	0	+	+	H	0 0	0	0	+		Н	+	0	0	0	+	+	0	+	0	0	+	+	0
	Digital telephone	s/iqW sst	type	24		KeymileUMUX STM-1				KeymileUMUX STM-1																																				
	Digital	s\tidM 8	type pcs	22 23	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0 0	0	0	0 0	0	0	0 0	0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0 0	0
			pcs ty	21 2	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0 0	0	0	0 0	0	0	0	0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0 0	0
VICES		s\ridM \(\(\zeta \)	type	20		siemens				siemens																			3																	
L DE	Γ		bcs	19	0	15	3	4	0	0	9	0	0	0	0	0	0	0	5 -	0	0	0 0	0	0	0	0	0	- 0	0	0	0	0	0	0	0	0	0	0	0 -	. 0	0	0	0	0	0	0
MULTI-CHANNEL DEVICE		fqsigələT	type	18	iskra	iskra	iskra	AUSO UTB ISKRA		iskra	siemens-WT100 EI		iskra	iskra		iskra												iskra											iskra	iskra						
		In-ground amplifiers	bcs	17	0	16	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0
		Above ground amplifiers	bcs	16	0	28	5	Ξ	0	0	4	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	7	0 0	0	0	0	0	0	0	0
	91	CIANUMIA ZI IALO	bcs	15	0	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0
	lephor	Over 12 channels	type	14	V300	V300					V300																																			
	gue te		bcs	13	0	91	3	4	0	0	2	- <	0	0	0 0	0	0	0	0 0	0	0	0 0	0	0	0	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0 0	0
	Analogue telephone	Up to 12 channels	type	12	Z 12	Z12	Z 12	FPD12 Z12	VZ12k	Ausso	Z 12	Z 12																										Z12							I	
		nb to 3 channels	type pcs	10 11	0	z 3 0	0	0	0	Z3F 0	EI 1	23f 1	0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0 0	0	0	0 0	0	0	0	Kt3-1 0	0	0	0 0	0	Н	Z3F 2	0 0	Z3F 0	+	0	0	0 0	0	0
		Local		6	0	111,88	0	71,00	3,67	10,000	63,144	+	0	0		0	0	0	22 559	0	0	0 0	0	0	0 2000	0 0	0	0 0	1,500	0	4,451		0	14,5	0 0	0	H	93	0 0	98	÷	0	0	0	0 0	0
		Fiber optic	km	8	0	0	0	0	0	0	H	0 0	t	0	0 0	0	0	0	0 0		0	0 0	0		†	t	0	0 0	0 3	0			0	0	0 0	0	H	2	0 0	t		0	0	0	0 0	0
	Cable lines	ATZ	m	7	0	162,917	105,043	15,878	0	26,000	0	350	3,648	0	11.755	34,460	0	250		0	2,130	0 0	0	0	536	0	0	0 0	257	0	0 0	0	0	0	0 0	0	Н		26,4		0	0	0	0	0 0	0
SYSTEMS					190	168 162	105	,857 15,	621	26,	388	5,	3,		=	34		10			2,				9,				17.									2/	2						$\frac{1}{1}$	
CABLES		STKA	km	9	135,0	384,1	0	135,8	12,4	0	370,	0	0	0		0	0	0		0	0	0 0	0	0	0 0	5 0	0	0 0	0	0	1.5	0	0	0	0 0	0	0	0	0 0		0	0	0	0	0	0
	lines	Overhead cables	km	5	0	0	0	0	74,00	13,00	0	90,34	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0 0	0	0	0 0	0	0	41,2	0	0	0	0 0	0	0	14,6	0 0	0	0	0	0	0	0	0
	Overhead lines	Two wire overhead lines iron	km	4	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0 0	0	0	0 0	0	0	0	0	0	0 0	0	0	2,65	0	0	29	0 0	0	0	0	0 0	0	0	0	0	0	0	0
		Two-wire overhead lines SiBr	km	3	0	0	0	0	0	2,00	0	0	0	0	0	0	0	0		0	0	0	0	0	٥	0	0	0 0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0
		RAILWAY LINE		2	BGD-Šid-State Border	BGD-Mladenovac-Niš-Preševo-State Border.	(BGD)-Rakovica-Jajinci-M.Krsna-V.Plana	(BGD)-S.Pazova-Indija-Subotica-State Border.	Niš-Dimitrovgrad-State Border.	BGD Centar-Pančevo-Vršac-State Border.	(BGD)-Resnik-Podgorica-Bar	Lapovo-Kraljevo-Đ.Janković-State Border.	Beograd Centar-Novi Beograd	BGD Centar-Rasputnica"G"-(Rakovica)	BGD Ranzima "A"-Ostružnica-Batajnica	BGD Ranžirna "A"-Rasp."B"-Rasp."K"-Resnik	Ostružnica-Rasp."B"-(Rasp."K"-Resnik)	BGD Ranzirna "B"-Rasp."R"-Rasp."A"	(BGD) Ranžima B J-Kasp. K -Kakovica	BGD Ranžima "B"-Rasputnica "T"-(Rakovica)	(BGD Ranz."A"-Ras.B)-Ras.K-Ras.K1-Jajinci	Foperder-Rasp.Savski Most-(Novi BGD) Tone-Blok 1Ohala-Blok 2 prel -Ras.Pan Most	(Topč)-Blok 1Obala-BGD Spoljna-Blok 2 prel	Vukov Sp.)-Ras.K.Park-Ras.Dedinje-(Rakov.)	Indija-Golubinci N Sad N Sad Danžima, Sailono Daen	Obilazni kolosek Mala Krsna	Lapovo Varoš-Lapovo Ranžirna-Lapovo	Trupale-Niš Ranžima-Međurovo	Niš-Rasputnica Most-(Niš Ranžirna)	(Cr.Krst-Skr.2)-Skr.3-Skr.4-(Cele Kula)	Subotica-Horgos-State Border. Pančevo Glavna-Zrenjanin-Kikinda-State Border.	Banatsko Miloševo-Senta-Subotica	Pančevo Varoš-Rasputnica "2a"-(Jabuka)	N.Sad-Sajlovo Rasputnica-Bogojevo	(N.Sad)-Sajl.RaspR.SančOrl.staj(Tomaš)	Orlovat-Rasputnica "1a"-(Lukićevo)	Ruma-Šabac-Rasp.Donja Borina-State Border.	Stalać-Kraljevo-Požega	Smederevo-Mala Krsna M Krsna-Bor-Rasputnica "2"-(Vražoornac)	Niš-Zaiečar- Prahovo pristanište	(Niš)-Doljevac-Kastrat-Rosovo Polje	Kuršumlija-Kastrat	(Barlovo)-Rasputnica "1"-Kuršumlija	Subotica-Subotica fabrika	Subotica-Subotica boinica Kanjiža-Horgoš	36 304 Novi Sad-Novi Sad Iožionica
r		lway line No	Rai		101	102 E	103 (104	105 1	106 E	-	108			113			116 E	_	_	$\overline{}$	121	+-	-	125 1		1	130		132 (_	203 E	204 F			208			214 3				_	301		304
r			oN	-	5	ю	4	2	22	9	+	_	7	\vdash	C 4	+	25	+	= 0		\vdash	+	27	+	19	+	+	30	+		43		44	$\overline{}$	36		+	$^{+}$	34	+	+	т,	\rightarrow	\neg	65	36
					<u> </u>		Щ				ш	1	_	ш		_	Ш	_			ш		1	ш						\perp							\perp			1	_		1	-1	_	1



Column C	Г	П	In-ground amplificrs	bcs	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥
Configure Conf				-	26 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Control March Control Marc				-	Н	H	Н			Н	Н	_	\vdash	Н	Н				H			Н	Н	Н	_	_		Н	Н	Н	0	0	0	0	0
Part Part		I telephone	sylidM 221																																
Column C		Digita	s/iidM 8			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Control lines Control line					21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cohe lines Coh	SVICES		s\idM 2	-	20																														
Cohe lines Coh	EL DE			bcs	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
CABILE SYSTEMS Cable lines	MULTI-CHANN		Теведар	type	18																20. 77														
Cable lines Cable lines			In-ground amplifiers	bcs	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Cable ENVINDAME ENVINDAME ENVINDAME ENVINDAME ENVINDAME ENVINDAME ENVINDAME ENVINDAME ENVINDAME ENVINDAME ENVINDAME ENVINDAME ENVINDAME ENVINDAME ENVINDAME ENVINDAME ENVINDAME ENVINDAME			Above ground amplifiers	bcs	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
CABLE SYSTEMS CABLE INCRETAIN CABLE INCREDITION		e		bcs	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
CABLE SYSTEMS CABLE INCRETAIN CABLE INCREDITION		nohqa	Over 12 channels	type	14																														
CABLE SYSTEMS CABLE INCRETAIN CABLE INCREDITION		ue tel		_	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
CABLE SYSTEMS Cable lines		Analog	Up to 12 channels																																5.5
CABLE SYSTEMS			siannina c ai dn	bcs	Ξ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
CABLE SY STEMS Cable lines CABLE SY STEMS			slameda 6 ot mi	type	10																														
Particle Particle			Госа	km	6	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	427,07
String Petrovaradir-Beocin 13 Returnal-Carpainin fibritist-Strange 14 Returnal-Carpainin fibritist-Strange 15 Returnal-Carpainin fibritist-Strange 15 Returnal-Carpainin fibritist-Strange 16 Returnal-Carpainin fibritist-Strange 17 Returnal-Carpainin fibritist		lines	Fiber optic	km	∞	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72,950
Note Part	LEMS	Cable	ATZ	km	7	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	507,024
Sombor-Result Reduces Scalar Scal			STKA	km	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1041,453
RAILWAY LINE End	S	100	Overhead cables	km	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	263,142
Particular Particular Particular Particular		Overhead I	Two wire overhead lines	km	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31,650
1			Two-wire overhead lines SiBr	km	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,000
					2	'5 Podbara-Rasput. "3"-Rasput. "2"-(Kać)	6 (Rim.Šančevi)-Rasput "1"-Rasput. "3"-(Podb.)	8 Vrbas-Sombor		0 Sonta-Apatin fabrika-Strilić-(Sombor)		2 Bačka Palanka-Gajdobra			5 Kikinda-Banatsko Arandelovo			8 Pančevo Varoš-Pančevo Vojlovica				2 Markovac-Resavica		3 Alibunar-Seleuš	4 Vladimirovac-Kovin	5 Čoka-Novi Kneževac	6 Kikinda-MKS (ind.kolosek)					1 Paraćin-Stari Popovac	2 Surčin-Jakovo-Bečmen-(Boljevci)	3 (Bgd spoljna)-km 2+290-Fabrika šećera	Total
8 2 3 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	L		oV sinc No	Rai		305	306	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	403	404	405	406	407	408	409	410	411	412	413	
	L			οN	-	37	45	33	69	74	54	55	46	52	09	71	81	29	78	48	20	63	99	53	80	59	19	28	72	73	42	89	22	57	



		7						RAD	OIO DE	VICE						
		Loc	omotive radio c		ching		Traffic	running	netwo	rks (2m	1)	Sta	tion rad	io netw	orks (0	,7m)
No Dailtean line No	RAILWAY LINE	Exchange units (with railway line splitter)	ength of covered railway line	Frackside stations	Locomotive stations	Number of networks	Radio link	Repeaters	Fixed stations	Mobile stations	Movable stations	Number of networks	Repeaters	Fixed stations	Mobile stations	Movable stations
No Pailur	NATION OF THE PROPERTY OF THE	pcs	년 km	pcs	pcs	pcs	pcs	pcs pcs	pcs	pcs	o W pcs	pcs	pcs	pcs	oW pcs	pcs
1	2	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
	01 BGD-Šid-State Border 02 BGD-Mladenovac-Niš-Preševo-State Border.	3	100 377	8 42	8	0	0	0	0	0	0	8 17	0	8	3	21 53
4 10	33 (BGD)-Rakovica-Jajinci-M.Krsna-V.Plana 34 (BGD)-S.Pazova-Indija-Subotica-State Border.	1	100	12 10	0	0	0	0	0	0	0	7	0	1	0	3
	04 (BGD)-S.Pazova-Inđija-Subotica-State Border. 05 Niš-Dimitrovgrad-State Border.	0	155	0	0	0	0	0	0	0	0	3	0	3	0	74 12
6 10	De BGD Centar-Pančevo-Vršac-State Border. De BGD)-Resnik-Podgorica-Bar	0	20 176	4 35	0	0	0	0	13	0	4	4 14	0	4	0	11 35
20 10	08 Lapovo-Kraljevo-Đ.Janković-State Border.	0	0	0	0	1	0	1	16	4	0	0	0	0	0	0
	9 Subotica-Bogojevo-State Border. 10 Beograd Centar-Novi Beograd	0	10	0	0 164	0	0	0	0	0	0	0	0	0	10	0
8 11	11 BGD Centar-Rasputnica"G"-(Rakovica)	0	10	2	0	0	0	0	0	0	0	0	0	0	0	0
	13 BGD Ranžirna."B"-Ostružnica	0	20 0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4 BGD Ranžirna "A"-Rasp."B"-Rasp."K"-Resnik 5 Ostružnica-Rasp."B"-(Rasp."K"-Resnik)	1	20 0	3	0	0	0	0	0	0	0	0	0	0	0	0
10 11	16 BGD Ranžirna "B"-Rasp."R"-Rasp."A"	0	8	4	0	0	0	0	0	0	0	6	1	3	0	19
	17 (BGD Ranžirna "B")-Rasp."R"-Rakovica 18 (BGD)-BGD Ranžirna "A"-Rasp."T"-Rakovica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9 BGD Ranžirna "B"-Rasputnica "T"-(Rakovica)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 12
29 12	21 Topčider-Rasp.Savski Most-(Novi BGD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 12 27 12	22 TopčBlok 1Obala-Blok 2 prelRas.Pan.Most 23 (Topč)-Blok 1Obala-BGD Spoljna-Blok 2 prel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 12	24 (Vukov Sp.)-Ras.K.Park-Ras.Dedinje-(Rakov.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 Indija-Golubinci 26 N.Sad-N.Sad Ranžirna-Sajlovo Rasp.	0	0	0	0	0	0	0	0	0	0	0 4	0	0 4	0	0 11
41 12 21 12	Obilazni kolosek Mala Krsna Lapovo Varoš-Lapovo Ranžirna-Lapovo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 12	29 Trupale-Niš Ranžirna-Međurovo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-	80 Crveni Krst-Niš Ranžirna 31 Niš-Rasputnica Most-(Niš Ranžirna)	0	0	0	0	0	0	0	0	0	0	5	0	8	0	19
18 13 51 20	32 (Cr.Krst-Skr.2)-Skr.3-Skr.4-(Ćele Kula) 01 Subotica-Horgoš-State Border.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 20	2 Pančevo Glavna-Zrenjanin-Kikinda-State Border.	0	0	0	0	1	0	2	11	0	2	0	0	0	0	0
32 20 44 20	33 Banatsko Miloševo-Senta-Subotica 34 Pančevo Varoš-Rasputnica "2a"-(Jabuka)	0	0	0	0	0	0	0	8	0	6	0	0	0	0	0
39 20 40 20	05 N.Sad-Sajlovo Rasputnica-Bogojevo 06 (N.Sad)-Sajl.RaspR.ŠančOrl.staj(Tomaš)	0	0	0	0	0	0	0 2	0 18	0	0	0	0	1	0	2
38 20	07 N.Sad Ranžirna-Sajlovo Rasputnica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 20 47 20		0	0	0	0	1	0	0	8	0	0	2	0	2	0	5
50 21	11 Stalać-Kraljevo-Požega 14 Smederevo-Mala Krsna	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 12
34 21	15 M.Krsna-Bor-Rasputnica "2"-(Vražogrnac)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16 Niš-Zaječar- Prahovo pristanište 18 (Niš)-Doljevac-Kastrat-Kosovo Polje	0	0	0	0	0	0	0	14 0	0	4	0	0	0	0	5
62 21	19 Kuršumlija-Kastrat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 30		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22 Subotica-Subotica bolnica 33 Kanjiža-Horgoš	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 30	04 Novi Sad-Novi Sad ložionica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 30	05 Podbara-Rasput. "3"-Rasput. "2"-(Kać) 06 (Rim.Šančevi)-Rasput "1"-Rasput. "3"-(Podb.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 30 69 30	08 Vrbas-Sombor 09 Petrovaradin-Beočin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 31	0 Sonta-Apatin fabrika-Strilić-(Sombor)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11 Bač-Karavukovo 12 Bačka Palanka-Gajdobra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(Ruma)-Rasp.Donja Borina-Zvornik Grad Šid-Sremska Rača Nova-State Border.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 31	5 Kikinda-Banatsko Aranđelovo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16 Sečanj-Jaša Tomić 17 (Zrenjanin)-Zrenjanin fabr.Vršac-Bela Crkva	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0 4
	18 Pančevo Varoš-Pančevo Vojlovica 19 (Uljma)-RaspA-RaspB-(Jasenovo)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 32	20 Senta-Odvojna skr. 22 Senta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 32 63 32	21 (Požarevac)-Rasput.Sopot PožKostolac 22 Markovac-Resavica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 32 53 40	23 Ovča-Padinska Skela	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 40	04 Vladimirovac-Kovin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	05 Čoka-Novi Kneževac 06 Kikinda-MKS (ind.kolosek)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 40 72 40	07 Bogojevo-Dunavska obala	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 40	99 Sombor-Riđica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 41 68 41		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 41	2 Surčin-Jakovo-Bečmen-(Boljevci)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/ 41	13 (Bgd spoljna)-km 2+290-Fabrika šećera Total:	9	996	122	176	8	2	11	89	4	27	83	6	95	20	298
	100000000000000									1000						



Appendix 3.8. List of stations with industrial sidings on which it is possible to handle dangerous goods (RID goods)

This appendix contains the list of industrial sidings where it is possible to handle dangerous goods in case the conditions stipulated by law are met (licenses issued by competent bodies and institutions are mandatory).

The table contains the names and codes of the stations that industrial sidings are connected to, the names of the owners and co-users of industrial sidings as well as the names of dangerous goods under RID with UN number.

No	Name and code of the station	Name of industrial siding	Type of goods under RID
1	2	3	4
1	Beograd Dunav	IBL "Duga" JSC	• TURPENTINE OIL, REPLACEMENT, UN 1300/30-CLASS 3 • XYLENES UN 1307/30 - CLASS 3
		TP "Tehnohemija" DD	* The table of RID goods, which manipulation is possible on this track, is on the end of the list
2	Bor Freight	RTB Bor - Group	SULPHURIC ACID WITH MORE THAN 51% OF ACID, UN 1830/80 - CLASS 8 AMMONIUM NITRATE FERTILIZERS, UN 2067/50 - CLASS 5.1 AMMONIUM NITRATE, UN 1942/50 - CLASS 5.1
3	Vrbas	Sugar Factory "Bačka" Sunoko ltd.	◆ SULPHUR DIOXIDE, UN 1079/268 – CLASS 2 ◆ FORMALDEHYDE SOLUTION WITH AT LEAST 25% OF FORMALDEHYDE, UN 2209/80 - CLASS 8 ◆ DIESEL FUEL, UN 1202/30 - CLASS 3
4	Vreoci	PE TE "Nikola Tesla"	HEATING OIL, UN 1202/30 – CLASS 3 SUBSTANCES THAT ENDANGER ENVIRONMENT, FLUIDAL, IF NOT STATED OTHERWISE (E.G. OIL FUEL), UN 3082/90-CLASS 9 HYDROSHLORIC ACID, UN 1789/80 – CLASS 8
5	Vršac	JSC "VIK"	AMMONIUM NITRATE FERTILIZERS, UN 2067/50- CLASS 5.1 AMMONIUM NITRATE, UN 1942/50 - CLASS 5.1
6	Dedina	"BIN Commerce"d.o.o. Belgrade"	 CHLORINE, UN 1017/265 - Class 2 SULPHURIC ACID with more than 51% of acid, UN 1830/80 - Class 8 ISOBUTANOL (ISOBUTYL ALCOHOL), UN 1212/30 - Class 3 HYDROSHLORIC ACID, UN 1789/80 - Class 8 SODIUM HYDROXIDE, SOLUTION, UN 1824/80- Class 8 CARBONILE SULPHIDE, UN 2204/263 - Class 2 AMMONIUM NITRATE, UN 1942/50 - Class 5.1 CARBON DISULFIDE, UN 1131/336 - Class 3 FERTILIZERS BASED ON AMMONIUM NITRATE, UN 2067/50- Class 5.1 SODIUM CYANIDE, UN 1689, Class 6.1 POTASSIUM HYDROXIDE, SOLID, UN 1813/80 Class 8 POTASSIUM HYDROXIDE, SOLUTION, UN 1814/80, Class 8 PENTANOLS, UN 1105, Class 5
		JSC "Henkel-Merima"	• SODIUM HYDROXIDE, SOLUTION, UN 1824/80 - Class 8
		TRAYAL Corporation	• PENTA ERITRIT TETRANITRATE, UN 0150/1.1D - Class 1
7	Doljevac	JSC "Beopetrol" (Lukoil – Beograd)	• DIESEL FUEL (euro diesel), UN 1202/30 - Class 3



8	Dragačevo	"Milan Blagojević" Namenska - Lučani	 SULPHURIC ACID, SMOKY, UN 1831/X 886 - Class 8 NITRIC ACID, SMOKY, UN 2032/856 - Class 8 ETHANOL, SOLUTION (ETHYL ALCOHOL, SOLUTION), UN 1170/33 - Class 3 NITRIC ACID, UN 2031/8856- Class 8
9	Elemir	NIS-TNG RC Zrenjanin	 MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2 PETROL UN 1203/33 - Class 3
		HIP "Petrohemija" FSK Elemir	 BUTADIENE, STABILIZED, OR MIXTURE OF BUTADIENE AND HYDROCARBONS, STABILIZED, UN 1010/239 - Class 2 METHANOL, UN 1230/336 - Class 3 STYRENE, MONOMER, STABILIZED, UN 2055/39- Class 3 MIXTURE OF HYDROCARBONS, TRANSFORMED INTO LIQUID CONDITION; if not stated otherwise, UN 1965/23 - Class 2 SULPHURIC ACID, UN 1830/80 - Class 8 PHOSPHORIC ACID, SOLUTION, UN 1805/80 - Class 8
10	Zrenjanin Factory	PE "TE-TO"	• SUBSTANCES THAT ENDANGER ENVIRONMENT, FLUIDAL, if not stated otherwise., (e.g. oil fuel) UN 3082/90- Class 9
	y y	JSC "Dijamant"	• SULPHURIC ACID with more than 51% of acid, UN 1830/80 - Class 8
11	Jagodina	JSC "Beopetrol"(Lukoil – Beograd)	• Oil and oil derivatives— Class 2 and 3
12	Bagrdan	Company Milojević PP "Gile gas", co-user: "EURO GAS", JSC	MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23- Class 2 PROPANE, UN 1978, Class 2 BUTANE, UN 1011, Class 2 ISOBUTANE, UN 1969, Class 2 PROPYLENE, UN 1077, Class 2
		Company Milojević PP "Gile gas"	• CALCIUM CARBIDE UN 1402/423 - Class 4.3
13	Kaona	US Steel "Serbia" "Balkan" (Branch Kučevo)	• DIESEL FUEL, UN 1202/30 - Class 3
14	Kikinda	JSC "MSK"	 ACETIC ACID, GLACIAL, UN 2789/83 - Class 8 METHANOL, UN 1230/336 - Class 3
15	Kovačica	T.P. "ATAKO" ltd.	• MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2
16	Kosjerić	Cement factory JSC "Titan – Kosjerić"	• SUBSTANCES THAT ENDANGER ENVIRONMENT, FLUIDAL, if not stated otherwise (e.g. heavy fuel oil), UN 3082/90 – Class 9
17	Kragujevac	"ZASTAVA Energetika" Ltd. (Energetika Ltd. in the process of restructuring) Žitoprodukt JSC	 SULPHURIC ACID with more than 51% of acid, UN 1830/80 - Class 8 HYDROCOLIC ACID, UN 1789/80 - Class 8 SODIUM HYDROXIDE, SOLUTION, UN 1824/80 - Class 8 SUBSTANCES THAT ENDANGER ENVIRONMENT, FLUIDAL, if not stated otherwise, UN 3082/90 - Class 9 FLAMMABLE LIQUIDS, if not stated otherwise, UN 1933/33 - Class 3 TYPE OF GOODS UNDER RID, Class 3, Class 6.1, Class 8, Class 9, Class 5.1
18	Guberevac	Guberevac - Column code 01 (Tariff Spt 37. Part 6a)	 PETROL, UN 1203/33 - Class 3 DIESEL FUEL, UN 1202/30 - Class 3 KEROSENE, UN 1223/30 - Class 3
19	Kruševac	NIS Lubricants factory	 DIESEL FUEL, UN 1202/30 - Class 3 CRUDE OIL DISTILLATES, if not stated otherwise, UN 1268/33 - Class 3



		T	
			 CHLORINE, UN 1017/265 - Class 2 SULPHURIC ACID with more than 51% of acid, UN 1830/80 - Class 8
			• ISOBUTANOL (ISOBUTYL ALCOHOL),UN 1212/30 - Class 3
			• HYDROSHLORIC ACID, UN 1789/80 - Class 8
		"BIN Commerce"d.o.o. Belgrade	• SODIUM HYDROXIDE, SOLUTION, UN 1824/80- Class 8
			●CARBONILE SULPHIDE, UN 2204/263 - Class 2
			AMMONIUM NITRATE, UN 1942/50 - Class 5.1
			• CARBON DOSULFIDE, UN 1131/336 – Class 3
			e. Into en la describat, en l'il vioco emissio
			• AMMONIUM NITRATE BASED FERTILIZERS, UN 2067/50- Class 5.1
			 SODIUM CYANIDE, UN 1689, Class 6.1 POTASSIUM-HYDROXIDE, SOLID, UN 1813/80, Class 8 POTASSIUM-HYDROXIDE, SOLUTION, UN 1814/80, Class 8 PENTANOLS, UN 1105, Class 5"
		JSC "Henkel-Merima"	• SODIUM HYDROXIDE, SOLUTION, UN 1824/80 - Class 8
		TRAYAL Corporation	• PENTA ERITRIT TETRANITRATE, UN 0150/1.1D - Class 1
			• AMMONIUM NITRATE BASED FERTILIZERS, UN 2067/50- Class
		"Metalpromet" JSC	5.1
		DD O'I E (/DI' 14)	AMMONIUM NITRATE, UN 1942/50 - Class 5.1
20	Koševi	DP Oil Factory (Plima M)	CRUDE OIL DISTILLATES, if not stated otherwise, UN 1268/33 - Class 3
21	Majdanpek	RTB Bor, Rudnik Majdanpek (RBM Majdanpek)	•AMMONIUM NITRATE BASED FERTILIZERS, UN 2067/50 - Class 5.1 • AMMONIUM NITRATE, UN 1942/50 - Class 5.1
22	Mladenovac	DP "Keramika", co-user "Inter gas" Ltd	MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - CLASS 2
	Naumovićevo	DP "Azotara"	 AMMONIUM NITRATE, UN 1942/50 – Class 5.1 HYDROSHLORIC ACID, UN 1789/80 - Class 8
23			• SODIUM HYDROXIDE, SOLUTION, UN 1824/80- Class 8
			• AMMONIA, WATERLESS, UN 1005/268 - Class 2
24	Ćele Kula	EI-KKC Ltd	 SUBSTANCES THAT ENDANGER ENVIRONMENT, FLUIDAL, if not stated otherwise (e.g. fuel oil), UN 3082/90 - Class 9 MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2
25	Novi Sad Marshalling Yard		, , , , , , , , , , , , , , , , , , , ,
		SARTID Limprodukt (Limprodukt)	MANAGE OF GARDONS INDEED STORY TO ANGED TO THE
			MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2
		Port of Novi Sad JSC	• Class 2 until 9, except Class 7



26	Podbara	NIS-TNG RC Novi Sad	 Oil and oil derivatives- Class 2 and 3 MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2 SUBSTANCES THAT ENDANGER ENVIRONMENT, FLUIDAL, if not stated otherwise, (e.g. heavy fuel oil), UN 3082/90 - Class 9
27	Ovča	 NIS -TNG, RC Beograd Sugar Factory "Dimitrije Tucović" 	MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2
28	Odzaci	JSC "HIPOL"	 PROPYLENE, UN 1077/23 - Class 2 MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2 BUTANE, UN 1011/23 - Class 2 PROPANE, UN 1978/23 - Class 2
329	Pančevo Varoš	JSC "Graneksport"	• AMMONIUM NITRATE FERTILIZERS, UN 2067/50 - Class 5.1 • AMMONIUM NITRATE, UN 1942/50 - Class 5.1
		DD "Port of Danube"	 AMMONIUM NITRATE FERTILIZERS, UN 2067/50 - Class 5.1 AMMONIUM NITRATE, UN 1942/50 - Class 5.1 CRUDE OIL, UN 1267/33 - Class 3 DIESEL FUEL, UN 1202/30 - Class 3 SUBSTANCES THAT ENDANGER ENVIRONMENT, FLUIDAL, if not stated otherwise (e.g. heavy fuel oil), UN 3082/90- Class 9 dangerous substances, that remain in any packaging form, during handling (bottles, barrels, etc.) possible transhipment of loaded containers: AMMONIUM NITRATE FERTILIZERS, in bags, UN 2067/50 - Class 5.1 PATRONES FOR WEAPONS WITH INTERNAL MISSILE, in boxes, UN 0012/1.4S - Class 1
		HIP "Azotara" and co- user: HIP "Petrohemija"	 AMMONIUM NITRATE FERTILIZERS, UN 2067/50 - Class 5.1 AMMONIUM NITRATE, UN 1942/50 - Class 5.1 CRUDE OIL, UN 1267/33 - Class 3 DIESEL FUEL, UN 1202/30 - Class 3 AMMONIA, WATERLESS, UN 1005/268 - Class 2



		"Utva"	 SODIUM HYDROXIDE, SOLUTION UN 1824/80- Class 8 SODIUM HYDROXIDE, SOLID UN 1823/80- Class 8 PHOSPHORIC ACID, SOLUTION, UN 1805/80- Class 8 HYDROCHLORIC ACID, UN 1789/80 - Class 8 POTASSIUM HYDROXIDE, SOLID UN 1813/80- Class 8 POTASSIUM HYDROXIDE, SOLUTION, UN 1814/80- Class 8 TRICHLOROETHYLENE, UN 1710/60 - Class 6.1 TETRACHLORETHYLENE, UN 1897/60 - Class 6.1 HYDROGEN PEROXIDE, UN 1490/50 - Class 5.1 IRON (III) CLASS (FERICHLORIDE), SOLUTION, UN 2582/80 - Class 8 HYPOCHLORITE, SOLUTION UN 1791/80 - Class 8 NITRIC ACID, UN 2031/80 - Class 8
		NIG ((C))	NITRIC ACID, UN 2031/885 - Class 8 NITRIC ACID, UN 2031/85 - Class 8
		NIS "Oil Rafinery"- Pančevo	• Class 2 and 3
30	Paraćin	JSC "SFS" (for "Euro gas")	MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2
		on "Triangla" for VRP "Company"	• MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2
31	Petrovaradin	MK Komerc "Pobeda"	AMMONIUM NITRATE FERTILIZERS, UN 2067/50- Class 5.1 AMMONIUM NITRATE, UN 1942/50 - Class 5.1
32	Pirot	JSC "Tigar"	• SUBSTANCES THAT ENDANGER ENVIRONMENT, FLUIDAL, if not stated otherwise (e.g. fuel oil), UN 3082/90 - Class 9
33	Požega		 PETROL OR FUEL FOR OTTO ENGINES, UN 1203/33 - Class 3 DIESEL FUEL, UN 1202/30 - Class 3
34	Prahovo	IHP Holding "Prahovo"	SULPHURIC ACID with more than 51% of acid, UN 1830/80 - Class 8 PHOSPHORIC ACID, SOLUTION, UN 1805/80 - Class 8 SODIUM HYDROXIDE, SOLID, UN 1823/80 - Class 8 SODIUM HYDROXIDE, SOLUTION UN 1824/80 - Class 8 FLUOROSILICIC ACID, UN 1778/80 - Class 8 AMMONIA, WATERLESS, UN 1005/268 - Class 2 AMMONIUM NITRATE FERTILIZERS, UN 2067/50 - Class 5.1
35	Prahovo Port	"Jugopetrol", Oil Industry of Serbia	• oil and oil derivatives - Class 2 and 3
36	Prijepolje Freight	JSC "Elan"	 ETHYL METHYL KETONE , (methyl ethyl ketone), UN 1193/33 - Class 3 METHYL ACETATE, UN 1231/33 - Class 3
37	Prokuplje	DP "Topličanka" (Topličanka - MB Gas)	MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2
38	Radinac	U.S. Steel "Srbija" Ltd.	• HYDROSHLORIC ACID, UN 1789/80 - Class 8 • AMMONIA, WATERLESS,UN 1005/268 - Class 2



39	Senta	Sugar Factory "Kristal" (co-user: "Potisje")	 AMMONIUM NITRATE, UN 1942/50 - Class 5.1 MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2 AMMONIUM NITRATE FERTILIZERS, UN 2067/50 - Class 5.1
		DP Public Warehouses	 AMMONIUM NITRATE, UN 1942/50 - Class 5.1 AMMONIUM NITRATE FERTILIZERS, UN 2067/50 - Class 5.1 MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2 BUTANE, UN 1011/23 - Class 2 ISOBUTANE, UN 1969/23 - Class 2 PROPANE, UN 1978/23 - Class 2 DIESEL FUEL (EURO DIESEL), UN 1202/30- Class 3
40	Subotica	"Ingrad" Ltd.	 AMMONIUM NITRATE, UN 1942/50 - Class 5.1 AMMONIUM NITRATE FERTILIZERS, UN 2067/50 - Class 5.1 MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2 BUTANE, UN 1011/23 - Class 2 ISOBUTANE, UN 1969/23 - Class 2 PROPANE, UN 1978/23 - Class 2 DIESEL FUEL (EURO DIESEL), UN 1202/30- Class 3
		"Integral - Betonirci"JSC. (co-user EURO GAS)	 AMMONIUM NITRATE, UN 1942/50 - Class 5.1 AMMONIUM NITRATE FERTILIZERS, UN 2067/50 - Class 5.1 MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2 BUTANE, UN 1011/23 - Class 2 ISOBUTANE, UN 1969/23 - Class 2 PROPANE, UN 1978/23 - Class 2 DIESEL FUEL (EURO DIESEL), UN 1202/30- Class 9 EXPENDED POLYMER PALLETS, UN 2211/90- Class 9 PROPYLENE UN 1077/23 - Class 2
		NIS TNG RC (Branch NIS TNG RC Subotica)	 MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2 BUTANE, UN 1011/23 - Class 2 ISOBUTANE, UN 1969/23 - Class 2 PROPANE, UN 1978/23 - Class 2
		"C - Market" ("Centroprom" lessee Belhatrade)	• MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2
41	Surčin	Jakovo – VML / Co-user EURO GAS	• oil and oil derivatives - Class 2 and 3
42	Ćićevac	DP for impregnation and wood processing - Ćićevac	• SUBSTANCES THAT ENDANGER ENVIRONMENT, FLUIDAL, if not stated otherwise, (e.g. creosote oil) UN 3082/90 - Class 9
,-		"Jugopetrol", Oil Industry of Serbia	 PETROL, UN 1203/33 - Class 3 DIESEL FUEL, UN 1202/30 - Class 3
43	Crveni Krst	NIS TNG RC Niš	• MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2
44	Čačak	NIS TNG RC Čačak	 MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2 PROPANE, UN 1978/23 - Class 2 BUTANE, UN 1011/23 - Class 2 PROPYLENE UN 1077/23 - Class 2 HEATING OIL, LIGHT, UN 1202/30 - Class 3



45	Šabac	HK "ZORKA" JSC ("Zorka transport" Šabac)	 SULPHURIC ACID with more than 51% of acid, UN 1830/80 - Class 8 SODIUM HYDROXIDE, SOLUTION UN 1824/80 - Class 8 MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2 LEADSULPHATE, UN 1794/80 - Class 8 (WASTE) PHOSPHORIC ACID, SOLUTION, UN 1805/80 - Class 8 AMMONIUM NITRATE FERTILIZERS, UN 2067/50 - Class 5.1 AMMONIUM NITRATE, UN 1942/50 - Class 5.1 AMMONIA, WATERLESS, UN 1005/268 -Class 2 AMMONIA, SOLUTION, UN 2672/80 - Class 8
		Oil Factory "Mladost" (JSC "Mladost" Šid)	• METHANOL, UN 1230/336 - Class 3
46	Šid	(Hempro - Color doo Šid)	 AMMONIUM NITRATE, UN 1942/50 - Class 5.1 AMMONIUM NITRATE FERTILIZERS, UN 2067/50- Class 5.1 hazardous material- Class 3 XANTHATES, UN 3342 - Class 4.2 LIGHTERS OR LIGHTER FLUIDS, UN 1057/23 - Class 2; SAFE MATCHES, UN 1944/40 - Class 4.1; WAX MATCHES, UN 1945/40 - Class 4.1; PARFUME PRODUCTS, UN 1266/33 - Class 3; PARFUME PRODUCTS, UN 1266/30 - Class 3; ETHANOL (ETHYL ALCOHOL) or ETHANOL, SOLUTION (ETHYL ALCOHOL, SOLUTION), UN 1170/30 - Class 3; COLOURS or ADDITIONAL MATERIALS FOR THE COLOURS, UN 1263/33 - Class 3; COLOURS or ADDITIONAL MATERIALS FOR THE COLOURS, UN 1263/30 - Class 3; GLACIAL ACETIC ACID or SOLUTION OF ACETIC ACID UN 2789/83 - Class 8 PYRETHRIN BASED INSECTICIDE, POISONOUS, SOLID, UN 3349 - Class 6.1 ORGANIC POISONOUS SOLID MATTERS H.J.H., UN 2811 - Class 6.1 TRICHLOROETHYLENE, UN 1710 - Class 6.1 SUBSTANCES THAT ENDANGER ENVIRONMENT, FLUIDAL, if not stated otherwise, UN 3082/90 - Class 9 SUBSTANCES THAT ENDANGER ENVIRONMENT, FLUIDAL, if not stated otherwise, UN 3077- Class 9
		Mlintest Port Holding	AMMONIUM NITRATE FERTILIZERS, UN 2067, Class 5.1 MIXTURE OF GASEOUS HYDROCARBONS TRANSFORMED
47	Zaječar	"Kristal" JSC Industry of glass and crystal	INTO LIQUID CONDITION, if not stated otherwise, UN 1965/23 - Class 2
48	Sremska Mitrovica	RTC "LUKA LEGET"	 Class 2 (gases) and Class 3 (flammable fluid materials) AMMONIUM NITRATE FERTILIZERS, UN 2067/50 - Class 5.1 AMMONIUM NITRATE, UN 1942/50 - Class 5.1 Corrosive materials - Class 8 CELLULOID, WASTE, UN 2002/40 - Class 4.2 Class 9 TRICHLOROETHYLENE, UN 1710 - Class 6.1



			• AMMONIUM NITRATE FERTILIZERS, UN 2067/50 -
		"Agrium d.o.o."	Class 5.1
			• AMMONIUM NITRATE, UN 1942/50 - Class 5.1
			• DIESEL FUEL or HEATING OIL, LIGHT, UN 1202/30 - Class 3
49	Valjevo	"Pubilk" d.o.o.	• LIGHTERS or LIGHTER FLUID, lighters with flammable gas UN 1057-Class 2
			• AMMONIUM NITRATE FERTILIZERS, UN 2067/50 -
50	Uljma	"Igma a.d" (GRANIMPEKS doo)	Class 5.1
			• AMMONIUM NITRATE, UN 1942/50 - Class 5.1
51	Smederevo	"Utva" IBZ Ltd., co-user PETROL LPG Ltd.	• BUTANE, UN 1011/23 - Class 2
52	Odžaci Kalvarija	Dijamant JSC, Zrenjanin	• AMMONIUM NITRATE, UN 1942/50 - Class 5.1
53	Zemun	"ZMAJ III"	• Gases - Class 2 • Flammable liquids - Class 3



*List of RID goods whichof handling is not possible on an industrial sidings TP "Tehnohemija" DD - Belgrade Dunav station

- HYDROSHLORIC ACID, UN 1789/80 class 8
- IRON (III) CLASS CHLORIDE (FERICHLORIDE), SOLUTION, UN 2582/80 - class 8
- AMMONIA, SOLUTION, UN 2672/80 class 8
- AMONIUM HYDROGEN DIFLUORIDE, SOLUTION, UN 2817/86- class 8
- SULPHURIC ACID, UN 1830/80 class 8
- SULPHURIC ACID, USED, UN 1832/80 class 8
- NITRIC ACID, UN 2031/85 class 8
- NITRIC ACID, UN 2031/80 class 8
- SODIUM HYDROXIDE, SOLUTION, UN 1824/80 class 8
- ACETIC ACID, GLACIAL OR SOLUTION OF GLACIAL ACID, UN 2789/83 class 8
- ACETIC ACID, SOLUTION, UN 2790/80 class 8
- HYPOCHLORITE, SOLUTION, UN 1791/80 class 8
- BISULFITES, WATER SOLUTION, if not stated otherwise, UN 1791/80 class 8
- HYDROGEN PEROXIDE, AQUEOUS SOLUTION, if not stated otherwise, UN 2014/58 class 5
- HYDROGEN PEROXIDE, AQUEOUS SOLUTION, if not stated otherwise, UN 2984/50 class 5
- ALUMINUMBROMIDE, SOLUTION, L 2580/58 - class 8
- ALUMINUM CHLORIDE, SOLUTION, UN 2581/80 class 8
- CHLOROACETIC ACID, SOLUTION, UN 1750/68 class 6
- CHROMIC ACID, SOLUTION, UN 1755/80 class 8
- POTASSIUM HYDROXIDE, SOLUTION, UN 1814/80 class 8
- FORMIC ACID, UN 1779/83 class 8
- SODIUM SULFITE, HYDRATE, UN 1849/80
- CHROMIUM FLUORIDE, SOLUTION, UN 1757/80- class 8
- PERCHLORATES, INORGANIC, N.O.S., UN 1481/50 class 5
- ANTIMONY PENTAFLUORIDE, UN 1732/86 class 8
- FLUOROBORIC ACID, UN 1775/80 class 8
- PEROXIDES, INORGANIC, N.O.S., UN 1483/50 class 5

- SODIUM ALUMINATE, SOLUTION, UN 1819/80 - class 8
- POTASSIUM CHLORATE, AQUEOUS SOLUTION, UN 2427/50 - class 5
- SODIUM CHLORATE, AQUEOUS SOLUTION, UN 2428/50 - class 5
- CALCIUM CHLORATE, AQUEOUS SOLUTION, UN 2429/50 - class 5
- PHOSPHORIC ACID, SOLUTION, UN 1805/80class 8
- DISINFECTANT AGENT, CAUSTIC, LIQUID n.o.s., UN 1903/88 class 8
- DISINFECTANT AGENT, CAUSTIC, LIQUID n.o.s., UN 1903/80 class 8
- CAUSTIC LIQUID SUBSTANCE n.o.s., UN 1760/80 class 8
- CAUSTIC LIQUID SUBSTANCE n.o.s., UN 1760/80 class 8
- FLUOROSILICID ACID, UN 1778/80 class 8
- POISONOUS INORGANIC LIQUID, n.o.s., UN 3287/66 class 6
- CAUSTIC ACID INORGANIC LIQUID, n.o.s., UN 3264/88 class 8
- CAUSTIC ACID INORGANIC LIQUID, n.o.s., UN 3264/80 class 8
- CAUSTIC BASE INORGANIC LIQUID, n.o.s., UN 3266/88 class 8
- CAUSTIC BASE INORGANIC LIQUID, n.o.s., UN 3266/80 class 8
- PERMANGANATES, INORGANIC, AQUEOUS SOLUTIONS, n.o.s., UN 3214/50 class 5
- PERSULFATES, INORGANIC, AQUEOUS SOLUTIONS, n.o.s., UN 3216/50 class 5
- NITRATES, INORGANIC, AQUEOUS SOLUTIONS, n.o.s., UN 3218/50 class 5
- NITRITES, INORGANIC, AQUEOUS SOLUTIONS, n.o.s., UN 3219/50 class 5
- CAUSTIC LIQUID, POISONOUS, n.o.s., UN 2922/86 class 8
- HYDRAZINE, AQUEOUS SOLUTION, UN 2030/86 class 8
- HYDRAZINE, AQUEOUS SOLUTION UN 3293/60 class 6



Appendix 3.8.b List of service points where it is possible to perform the transhipment of dangerous goods

The user or the authorized person is liable for safe transhipment and provision of required permits for transhipment issued by the competent authorities (ministry, local self-government, etc.) in case such permits are prescribed by law or by-laws. The Infrastructure Manager is not obliged to control permits and approvals issued by the competent authorities. In case of an accident during transhipment, the user or authorized person undertakes all necessary measures for making handling point functional.

Transhipment of the respective dangerous goods may be carried out on the handling point (handling area, ramp), i.e. the facility placed beside the track referred to in column 3, Table 1 of this Appendix. Transhipment shall be performed in compliance with the applicable regulations of the Republic of Serbia in the field of transport of dangerous goods, health and safety at work, environmental protection, waste treatment, fire protection, etc., complying with the essential safety measures which shall be provided as follows:

Keeping, disposal and storage of dangerous goods in the area of service point, including handling point is prohibitied.

The handling point where transhipment is carried out must be enclosed or in any other way separated from passenger transport or from the handling point (loading, unloading, transhipment) with the goods not classified as dangerous (not RID). If a handling point is not enclosed, the client must mount movable fence which shall be removed upon handling (made of plastic orange material used in construction).

The handling point where transhipment is carried out shall have "RID — warning plate on the handling point". In case an IZS' service point, within which there is the place of handling with dangerous goods, does not have "RID — warning plate on the handling point", the user of the handling point (consignee, consignor or authorized person) is obliged to provide the said plate at their own expense during the entire period of handling. The plate shall be made of sheet, with red colour base, on which the text with white letter is inscribed. The text shall read: RID WARNING — HANDLING WITH DANGEROUS GOODS. Minimum plate size is 600x500 mm. The plate shall look like as indicated:

RID WARNING HANDLING WITH DANGEROUS GOODS

Transhipment of the dangerous goods is carried out during the visible part of day, but it may be performed at night, with electrical lighting whereby the electrical devices that cannot cause fire or explosion may be used. In case an IZS service point, within which there is the point of handling with dangerous goods does not have capacity for electrical lighting, the user of the handling point shall be obliged to provide necessary lighting at their own expense during the entire period of handling.

In case that said track is under OCL, during transhipment the voltage must be turned off and the track shall be secured in a duly manner.

Road vehicle engine shall be turned off during transhipment.

The disposal of the flammable and material which may cause or intensify fire is prohibited. Furthermore, it is forbidden to dirty the handling area with oil or oil derivatives (out of road freight vehicle).



Fire lighting or work with any open flame, use of tools which sparks and the devices with burner as well as smoking are forbidden during transhipment.

The user of the handling point (consignee, consignor or the authorized person) is obliged to perform cleaning and remove waste, which has been generated during the process of handling with dangerous goods, to the dumpsite, upon the completion of handling activities, in accordance with the Law on Waste Management, Law on Environmental Protection and other legislation and bylaws in the field of environmental protection. In case the user of authoried person does not clean the area after transhipment and does not take waste to the respective dumpsite outside the station, the railway undertaking shall perform cleaning.

The user of the handling point is obliged that, in the process of handling with dangerous goods, comply with the Law on Transport of Dangerous Goods and Law on Protection at Work (to take care on safety and health at work of their employees on the handling point), and particularly to get them acquainted, in a proven manner, with the hazards of stay in railway area (general safety of movement in IZS's service points, way of conduct in service points, restrictions in movement, hazards from high voltage and other hazards).

Simultaneous transhipment at the same place of handling with dangerous goods of different classes is forbidden.

The service points where transhipment of certain dangerous goods from railway wagons into road vehicle and vice versa is performed are given in the Table of this Appendix.

Upon the request of the interested parties, Infrastructure of Serbian Railways JSC may approve transhipment of other dangerous goods, as well as in service points not given in the Table of this Appendix, in case there are conditions met for handling in the service point, and if the approval of the competent authority is provided for the goods that are being transhipped if it is prescribed by the law (ministries, local self-government units, , i.e. the Ministry of Interior's services).

For more information please contact:

"Infrastructure of Serbian Railways" JSC Department for Traffic Operations 6 Nemanjina St., 11000 Belgrade, Serbia Phone/Fax:+381 11 36 18 214 E-mail:sektor.sp@srbrail.rs

The table consists of 8 columns, with the following content:

- column No 1 "ordinal No";
- column No 2 "Name of a service point", contains the name and code of the station or transport dispatching point, i.e. the name and code of the unmanned loading point whereby the content in brackets indicates the name and code of its control/supervisory station;
- column No 3 "Track", contains ordinal number or name of track in accordance with Station regulations (transport dispatching point or loading point);
- columns 4, 5 and 6 "Dangerous goods", contain NHM code, UN item/number for indication of hazards and class of dangerous goods, whichof transhipment may be carried out;
- column No 7 "Notes", contains specific information relating to specific boxes.

Table: List of service points open for transhipment of dangerous goods

			Dangerous goo	ods		
No	Name of service point	Track	NHM	UN / number for hazards indication	Class	Notes
1	2	3	4	5	6	7



			2107.20	2067/50	7 1	
1.	Adrovac	1	3105 20 3102 30	2067/50 1942/50	5.1 5.1	
			3102 30	2067/50	5.1	
2.	Aleksinac	1	3102 30	1942/50	5.1	
			3105 20	2067/50	5.1	
3.	Bagrdan	6	3102 30	1942/50	5.1	
4	D Y1 T 1	1.5.7	3105 20	2067/50	5.1	
4.	Bačka Topola	1, 5, 7	3102 30	1942/50	5.1	
5.	Bor Freight	1	3105 20	2067/50	5.1	
٥.	Boi Meight	1	3102 30	1942/50	5.1	
6.	Valjevo	II line	3105 20	2067/50	5.1	
<u> </u>	, arje , o	11 11110	3102 30	1942/50	5.1	
7.	Velika Plana	1	3105 20	2067/50	5.1	
			3102 30	1942/50	5.1 5.1	
8.	Vranje	1	3105 20	2067/50		
			3102 30 3105 20	1942/50 2067/50	5.1 5.1	
9.	Vršac	11, 19	3103 20	1942/50	5.1	
			3102 30	2067/50	5.1	
10.	Grejač	1	3102 30	1942/50	5.1	
	× 1 · 1		3105 20	2067/50	5.1	
11.	Žednik	1, 6a	3102 30	1942/50	5.1	
10	Zmajevo	5	3105 20	2067/50	5.1	
12.	3		3102 30	1942/50	5.1	
13.	Znanianin	1, 10	3105 20	2067/50	5.1	
13.	Zrenjanin	1, 10	3102 30	1942/50	5.1	
14.	Zrenjanin Factory	1	3105 20	2067/50	5.1	
17.	Zienjamii i actory	1	3102 30	1942/50	5.1	
15.	Jagodina	1, 8	3105 20	2067/50	5.1	
	8-	-, -	3102 30	1942/50	5.1	
16.	Kikinda	20, 21	3105 20	2067/50	5.1	
			3102 30 3105 20	1942/50 2067/50	5.1 5.1	
17.	Kula	1	3103 20	1942/50	5.1	
			3102 30	2067/50	5.1	
18.	Lapovo	1	3102 30	1942/50	5.1	
1.0		Station for	3105 20	2067/50	5.1	
19.	Lapovo marshalling yard	disinfecting	3102 30	1942/50	5.1	
20	Lagkovaa	New track	3105 20	2067/50	5.1	
20.	Leskovac		3102 30	1942/50	5.1	
21.	Lešak	1 short	3105 20	2067/50	5.1	
41.	Louix	1 DIIOIT	3102 30	1942/50	5.1	
22.	Mala Krsna	1	3105 20	2067/50	5.1	
ļ			3102 30	1942/50	5.1	
23.	Mladenovac	1, 7	3105 20	2067/50	5.1	
			3102 30 3105 20	1942/50	5.1 5.1	
			3105 20 3102 30	2067/50 1942/50	5.1 5.1	
			2807 00	1830/80	8	
		2, 3, 4, 7	2806 10	1789/80	8	
24.	Novi Sad Marshalling	Locomotive and	2815 12	1824/80	8	
	Yard	freight stations	2808 00	2031/80	8	
		-	2809 20	1805/80	8	
			2815 11	1823/80	8	
			2828 90	1791/80	8	



			3105 20	2067/50	5.1	
25.	Ostružnica	1	3102 30	1942/50	5.1	
			3105 20	2067/50	5.1	
26.	Palanka	1	3102 30	1942/50	5.1	
	.		3105 20	2067/50	5.1	
27.	Pančevo varoš	1	3102 30	1942/50	5.1	
20	D × 1/1: G:	20. 21	3105 20	2067/50	5.1	
28.	Pančevo Main St.	20, 21	3102 30	1942/50	5.1	
20	D /'	1	3105 20	2067/50	5.1	
29.	Paraćin	1	3102 30	1942/50	5.1	
30.	Pirot	1	3105 20	2067/50	5.1	
<i>5</i> 0.	Pirot	1	3102 30	1942/50	5.1	
31.	Požarevac	1	3105 20	2067/50	5.1	
31.	Fozarevac	1	3102 30	1942/50	5.1	
			3105 20	2067/50	5.1	
32.	Požega	19	3102 30	1942/50	5.1	
			3102 30			
33.	Prijepolje Freight	13	3105 20	2067/50	5.1	
55.	i ijepoije i ieigiit	1.0	3102 30	1942/50	5.1	
34.	Prokuplje	1	3105 20	2067/50	5.1	
٠.,			3102 30	1942/50	5.1	
35.	Resavica	Right dead-end	3105 20	2067/50	5.1	
55.	resurreu	track	3102 30	1942/50	5.1	
36.	Ruma	1, 2	3105 20	2067/50	5.1	
	Ttulliu	1, 2	3102 30	1942/50	5.1	
37.	Svilajnac	1	3105 20	2067/50	5.1	
			3102 30	1942/50	5.1	
38.	Senta	1, 10,11	3105 20	2067/50	5.1	
		, -,	3102 30	1942/50	5.1	
39.	Sombor	20, 21	3105 20	2067/50	5.1	
			3102 30	1942/50	5.1 5.1	
40.	Sremska Mitrovica	1,9	3105 20 3102 30	2067/50 1942/50		
			3102 30	2067/50	5.1 5.1	
41.	Stalać	1 short track	3103 20	1942/50	5.1	
		1, 33, 34 and 36	3102 30	2067/50	5.1	
42.	Subotica	freight station	3103 20	1942/50	5.1	
	,	meight station	3105 20	2067/50	5.1	
43.	Ćićevac	1	3102 30	1942/50	5.1	
	<i>I</i>		3105 20	2067/50	5.1	
44.	Ćuprija	1	3102 30	1942/50	5.1	
4.~	TIV' D '1.	1	3105 20	2067/50	5.1	
45.	Užice Freight	1	3102 30	1942/50	5.1	
10	Č-¥-1-	1 411 . 1	3105 20	2067/50	5.1	
46.	Čačak	1-dead-end track	3102 30	1942/50	5.1	
47	Čahaa	1.7	3105 20	2067/50	5.1	
47.	Šabac	1,7	3102 30	1942/50	5.1	
48.	Stara Pazova	7	3102 30	1942/50	5.1	
49.	Kruševac	1	3105 20	2067/50	5.1	
47.			3102 30	1942/50	5.1	
50.	Vrbas	10,11	3105 20	2067/50	5.1	
51.	Bajmok	1	3105 20	2067/50	5.1	Only for goods
J1.	Dajiiok	1	3102 30	1942/50	5.1	in sacks
52.	Futog	1	3105 20	2067/50	5.1	
J4.	1 4105	*	3102 30	2001130	5.1	I



Appendix 3.9. Alternative transport routes

No	Regular route	Distance (km)	Alternative route	Distance (km)
1	Subotica-Novi Sad	98.5	Subotica-Sombor-Vrbas-Novi Sad	150.5
2	Subotica-Novi Sad	98.5	Subotica-Sombor-Bogojevo-Novi Sad	165.4
3	Subotica-Novi Sad	98.5	Subotica-Zrenjanin-N.Sad	230.6
4	Subotica-Belgrade	175.6	Subotica-Zrenjanin-Pančevo- Belgrade	234.6
5	Novi Sad-Belgrade	77.1	Novi sad-Orlovat-Pančevo-Belgrade	148
6	Kikinda-Subotica	96.4	Kikinda-Orlovat-N.Sad-Subotica	271
7	Belgrade-Lapovo	109.6	Belgrade-Požega-Kraljevo-Lapovo	306.1
8	Belgrade-Lapovo-Kraljevo	194.3	Belgrade-Požega-Kraljevo	221.4
9	Belgrade-Niš	243.5	Belgrade-Požarevac-Zaječar-Niš	372.9
10	Belgrade-Požega	154.9	Belgrade-Lapovo-Kraljevo-Požega	260.8
11	Belgrade-Požega-Vrbnica(ŽCG)	299.3	Belgrade-Lapovo-Kraljevo-Požega- Vrbnica(ŽCG)	405.2
12	Belgrade-Smederevo	83.1	Belgrade-Mladenovac-V.Plana- Smederevo	132.8

Note: For departure/terminal station the names of the nodes are given, and various service points may be comprised within the respective node.



Appendix 3.10. Facilities for rolling stock maintenance

Maintenance of railway vehicles is performed in accordance with the Rulebook on Railway Vehicle Maintenance (Official Gazette of the Republic of Serbia, No 101/2015, 24/16 and 36/17).

Service facilities for provision of the basic services- where the works on the maintenance of vehicles are executed, and which are not carried out regularly as the part of daily activities requiring the vehicle to be detached from traffic are the organizational units of the other companies and Infrastructure of Serbian Railways JSC does not provide this type of services.

In accordance with the available data, service facilities and basic maintenance services provided by the Joint Stock Company for Passenger Railway Transport "Srbija Voz", Belgrade are as follows:

Location	Address	Facility	Primary Purpose	Basic Information
	Milana	Depot Zemun	Maintenance of electric rolling stock and passenger coaches	Area: 10.200 m2 6 tracks of unit length 220 m
Zemun	Rešetara bb	Depot for underfloor wheel lathe	Wheel processing of rolling stock	Area: 350 m2 It has underfloor wheel lathe without dismantling of wheel-sets
		Workshop	Regular maintenance of electric and diesel locomotives	Area: 85 m2 Disposes of service canal of 36m and platform but without a canopy
Lapovo	Lava Tolstoja 10	Maintenance depot	Maintenance of electric and diesel locomotives and motor trains	Area: 1.part 1088 m2 and second part 625 m2 It has two running lines 2 out of which there are two canals on one line in the length of 50m and 20m. It disposes of single-axle weighbridge for measuring and adjusting the axle load of the rolling stock.
Sombor	Braće Miladinom 1	Hangar Depot for	Maintenance of DMUs, and may be used for maintenance of freight wagons and diesel locomotives	Area:1337,5 m2 It has two tracks of the length 78 m and 24 m; it disposes of underfloor wheel lathe for wheel processing on rolling stock without dismantling. Area: 687 m2 има 1 колосек дужине
		railbuses Depot for	Maintenance of railbuses and replacement of wheel-sets of	78 m Area: 277 m2 1 canal in the length of 27
Zrenjanin	Dr Vase Stajica 2	Depot for DMUs	711 DMUs Maintenance of DMUs	M Area: 432 m2 1 track in the length of 34 m
Vršac	Pavliški put bb	Depot for maintenance of rolling	Inspections and extraordinary repairs of smaller scope on diesel traction units and	Area: 787 m2 Two tracks in the length of 40 m



		stock	DMUs, as well as the overhauls of freight wagons	
Zaječar	Železnička bb	Workshop for repair of locomotives	Maintenance of diesel traction units and freight wagons	Area: 1250 m2 4 track out of which two are, unit length- 50 m

For more information on the provision of basic services in the above facilities responsible is their user in "Srbija Voz", Belgrade, Department for Rolling Stock Maintenance.

Contact point: Director of Department for Rolling Stock Maintenance - Mr. Vladan Petrović

Address: 6 Nemanjina St. 11000 Belgrade, Serbia

E-mail: vladan.petrovic@srbrail.rs

Phone: +381 64 845 22 64

Information on service facilities and services provided by the Joint Stock Company for Freight Railway Transport "Srbija Kargo", may be found on the web-site: www.srbcargo.rs/usluge.



Appendix 3.10a. Information on the service facility managed by Special Port d.o.o.



Специјална лука д.о.о. БРОЈ: 1384

датум: 21, 07, 2020 ПАНЧЕВО, Спољностарчевачка 80

Панчево, 13. 07 2020. године

Каталог података индустријског колосека – Специјална лука д.о.о. Панчево

1. Општи подаци

Власник индустријског колосека:	Специјална лука д.о.о. Панчево, Спољностарчевачка 80, 26000 Панчево		
Правилник којим се утврђује начин организовања и регулисања маневарског рада, одржавања и заштите индустријског	Број сагласности Министарства за инфраструктуру	Датум:19. 12. 2019. год.	
колосека лица одговорног за спровођење акта, одржавања железничких возних средстава и других средстава која се користе на индустријском колосеку Специјална лука д.о.о. Панчево	340/1687-2/2019	19.12.2019.године	
Назив колосека:	Индустријски колосек Специјалне луке д.о.о. Панчево		
Колосек отвоен за манипулације:	а, б, ц, д, е		
Назив пруге/деонице са које се колосек одваја	Панчево Варош – Панчево Војловица		
Назив службеног места/надзорне станице/одвојне скретнице	Панчево Варош скретница број 7		
Стационажа - км положај одвојне скретнице	km 2+988,5		
Број колосека на индустријском колосеку	24		
Достава брута до/од јавне железничке инфрас		устријског колосека	
Специјална лука обавља сопственим вучним и	возилом и особљем.	8 85 %	
Дозвола грађевинска издата од:	бр. 0332-10/91 од дана 01.11.1991. године.		
Дозвола употребна издата од:	04-351/2171-69-71 05	5.04.1971.	

2. Карактеристике индустријског колосека

Година градње последњи ремонт	1970/56 2014. година
Минимални пречник кривине (m)	160
Стварна дужина колосека (m)	13.414,61
Корисна дужина колосека (m)	11.016,4
Манипилативна дужина колосека (m)	550
Сигнално сигурносна опрема:	кључевна
Број скретница / тип:	36 - тип 49, 14 – тип 35.
Број путних прелаза / стационажа / врста осигурања:	13- Преко свих путних прелаза сабраћај је обезбеђен друмским саобраћајним знаковима "СТОП" и "АНДРЕЈИН КРСТ".
Максимално дозвољен осовински притисак:	20 t / os, 6,4 тона по дужном метру
Максимална дозвољена брзина:	20 km / h
Колска вага t/m	100 т / 2 0м
Тарифни профил:	Да



3. Управљање и одржавање индусријским колосеком

Управљање ин	ндустријским колосеком			
Одговорно лице за управљање инд. колосеком	Јакша Балчаковић			
Седиште: Спољностарчевача 80, 26000 Панчево				
Функција: Директор лучких и железничких операц				
Телефон:	013 / 308 200			
Одржавање и	индустријског колосека			
Колосек одржава:	Триопројект д.о.о. Београд			
Број уговора о одржавању: број 153/IV од 16.04.2016. године				

Напомене:

	Локомотива.серије 733 ДХЛ-600 ОП ЛОК.ДИЗ. ДХЛ-300 Е 005				
Вучна возила:					
*	ЛОК.ДИЗ. ДХЛ-300 Е 004				
Дозвола за коришћењу у саобраћају	AZOTP-A3OTO 98 72 3 733003 - 8 (733 -003)				
локомотиве:	број дозволе 340-556-04/2010 од 23.092010.				
Дозвола за коришћењу у саобраћају	ДХЛ-300Е 98 72 8722005-5				
локомотиве:	број дозволе 340-06-15/2018-01 од 08. 02.2008.				
	Возовођа смене- 3				
	Руковаоц маневре – 4				
Ангажовано особље:	Маневриста – 6				
	Машиновођа - 4				
	Дежурни радник на Ранж.станици - 5				

Напомена:

У прилогу важећи ценовник Специјалне луке д.о.о. Панчево.



Одељак III

ЦЕНЕ УСЛУГЕ ПРЕТОВАРА И МАНИПУЛАЦИЈЕ НА ЖЕЛЕЗНИЦИ

РБ	ВРСТА УСЛУГЕ	опис услуге	ЦЕНА УСЛУГЕ			
1	ЖЕЛЕЗНИЧКА УСЛУГА	Коришћење железничке инфраструктуре специјалне луке, за пролаз вагона и вагон цистерни	2.00	EUR/bruto t		
		Манипулација вагон цистернама са опасним материјама, дизел-хидрауличном локомотивом, са вагањем вагон цистерни	3.90	EUR/bruto t		
		Манипулација вагонима са расутим и упакованим теретом, као што су: ђубрива, житарице, грађевински материјал и слично	2.00	EUR/ t		
		Прихват вагона и вагон цистерни на инфрструктуру Специјалне луке	7.00	EUR/kola		
		Гарирање вагона и вагонцистерни на инфраструктури Специјалне луке	0.07	EUR/h		
		Најам локомотиве за маневрисање на индустријском колосеку Наручиоца са машиновођом, за сваких започетих пола сата рада - минимални најам 20 часова рада локомотиве до 5 радних дана	50.50	EUR/30мин		
		Стајање локомотиве током најама локомотиве за маневрисање на индустријском колосеку Наручиоца са машиновођом.	8.50	EUR/h		
2	Вагање железничких вагона и цистерни	По захтеву корисника	15.00	EUR/kola		
3	НАЈАМ ИНФРАСТРУКТУРЕ И РАДИОНИЦЕ ЗА СЕРВИС ВУЧНИХ СРЕДСТАВА	Најам радионице са каналом, за одржавање вучних средстава - локомотива - збрињавање свих отпада обавеза корисника услуге	100.00	EUR/h		
=		Најам колосека, за одржавање вучних средстава - локомотива - збрињавање свих отпада обавеза корисника услуге	50.00	EUR/12h		

- Приказане цене су без ПДВ-а
- Обрачунски курс је средњи курс НБС на дан фактурисања

Панчево, 07.04.2020.СПЕЦИЈАЛНА ЛУКА доо
ПАНЧЕВО Спољностарчевачка 80
Вапса Intesa A.D. Beograd, 160-0000000437858-76Факс:
Тел:
013 / 308 200
info@specijalnaluka.rs



Appendix 3.11. Railway infrastructure development projects

The National Assembly, upon the proposal of the Government, passes the National Program for the railway infrastructure, which contains:

- 1. the existing characteristics and condition of the railway infrastructure of the Republic of Serbia;
- 2. strategy for construction, reconstruction and maintenance of the railway infrastructure;
- 3. development components in the construction of the new infrastructure capacities of special significance for the Republic of Serbia;
- 4. defining of the structure, time schedule for realization of priorities, level and sources of the financial assets needed for completion of the National Program activities.

National Program is passed for a five-year period.

Based on the National Program, the Infrastructure Manager prepares the annual program for construction, reconstruction and maintenance of the railway infrastructure, organization and regulation of the railway traffic.

				Estmated	Works'	
No	Project			of works (date or quarter)	Duration of works	execution method
	Modernization (construction and reconstruction) of the railway line Belgrade -Subotica -state border (Kelebia) section Belgrade Center - Stara Pazova	Stage 1: Belgrade Center (excl.) –Zemun (incl.)	left	05.07.2018.	01.10.2020.	Works are executed with interruption of traffic along the right track during time interval from 10:00 pm to 05:00 am NOTE: Because of works in Zemun station, since May 15 th 2019 traffic is performed by a single track, at the right track only.
			right	Upon completion of reconstruction of the left track Belgrade Center – Zemun	Q2 2021	Works are executed with interruption of traffic along the reconstructed left track during time interval from 10:00 pm to 05:00 am
1		Stage 2:	left	16.08.2019.	Q1 2021	Works are executed with interruption of traffic along the right track during time interval from 10:00 pm to 05:00 am
		Batajnica (incl.)- Stara Pazova incl.)	right	Upon completion of reconstruction of the left track Batajnica – Stara Pazova	Q2 2021	Works are executed with interruption of traffic along the reconstructed left track during time interval from 10:00 pm to 05:00 am
		Stage 3: Zemun (excl.)- Batajnica (excl.)	right	Upon completion of reconstruction of the left track Zemun - Batajnica	Q2 2021	Works are executed with interruption of traffic along the left track during time interval from 10:00 pm to 05:00 am
		! ! !	left	16.08.2019.	Q1 2021	Works are executed



	<u> </u>	1	٦	with interruption of
				traffic along the
				reconstructed right track during time
				interval from 10:00 pm to 05:00 am
	1			Works are executed
				on the construction of the tunnel and
	Modernization (construction and reconstruction) of the railway line Belgrade –Subotica –state			viaduct, as well as
2	border (Kelebia) section	01.02.2019.	Q4 2021	on the new track, with traffic
	Stara Pazova- Novi Sad			interruption
	Sura razova-riovi Suu			between stations Inđija (incl.) – Novi
				Sad (excl.)
	Modernization (construction and reconstruction)			Traffic interruption on the part of the
	of the railway line Belgrade -Subotica -state			line Belgrade – Subotica – state
3	border (Kelebia) section	Q2 2021	Q4 2022	border between
	Novi Sad - Subotica			stations Novi Sad (excl.)-Subotica
				(excl.)
				With complete traffic interruption
		15.05.2019.	Q2 2021	on the respective section. During the
	Reconstruction of the section tunnel Straževica			execution of works
4	(entrance) – Jajinci – Mala Krsna (excl.) from			on the reconstruction of
4	km 9+896 to km 67+800 and reconstruction of	15.05.2019.	Q2 2021	Mala Krsna station, traffic towards
	Mala Krsna station			Radinac and
				Požarevac from the Velika Plana
				direction will be enabled.
				enabled.
			Estimated	Execution of the works and traffic
_	Civil engineering reconstruction of the Niš –	Q3 2021	Estimated duration of the works:	performance
5	Dimitrovgrad railway line, section Sićevo - Dimitrovgrad			according to the
			end of 2023.	schedule: 36/36/36/60
				Execution of the works and traffic
			Estimated	performance will
6	Electrification of the Niš – Dimitrovgrad railway line, section Sićevo - Dimitrovgrad	Q4 2021	duration of the works:	be realized alternately in
	Tanway fine, seedon Sicevo - Diffilliovgiau		end of 2023.	intervals agreed
				with the Contractor.
				Execution of the
	Reconstruction of the section Niš- Brestovac,		Estimated	works and traffic
7	from km 244+600 (exit from Niš station) to km	March 2021	duration of the works:	performance according to the
	267+430 (entrance into Brestovac station)		Q1 2023.	schedule:
				36/36/36/60 Works are executed
	Regular investment maintenance of the Niš –	25 02 2010	01 2021	with interruption of
8	Crveni Krst– Zaječar – Prahovo port railway line, section Crveni Krst- Zaječar	25.02.2019.	Q1 2021	traffic between stations Crveni
0		Q3 2022	Estimated	Krts-Zaječar Execution of the
9	Construction of a northern bypass around city of	Q3 2022	Esumated	Execution of the



Niš: - Crveni Krst – Pantelej – Matejevac - Trupale – Crveni Krst - Trupale – Niš Ranžirna	duration of the works: end of 2023	works and traffic performance will be realized alternately in intervals agreed with the
		with the
		Contractor.

Note: Since the works under the No. 5. and 7. will be executed at the same time and in accordance with the same time schedule (36 hours of traffic – 36 hours of line closure) traffic of trains will be organized alternately (traffic on the relation Niš – Brestovac will be organized during the closure of Niš – Dimitrovgrad, and vice versa).



Appendix 4.1. Request for train path allocation (form)

Application form for train path allocation

	ertaking - opei	rator:					
Address:							
Contact perso	on:						
Γel.		Fax.			e-mai	ıl:	
Place and dat	te:						
1 DACIC	INICODMATI	ON ON THE RE	OHECTED	TD A INI D	ATII		
1. DASIC	INFORMATIO	Train No in	Desired tir		Route		
Train type		the previous timetable	departure	arrival	from	to	via
NOTES							
2. TRAIN	TIMETABLE	INFORMATIO	N				
Stops in se	rvice points	Staying time points [min]	in service	Running	calendar		
3. TRAIN	INFORMATI	ON					
Type of					Braking	g	
traction, serial No of traction unit, route	units, serial No of traction unit, function in the train, route	Series and No of the wagon /motor unit	Train mass [t]	Train length [m]	Туре	Percentage [%]	Maximum train speed [km/h]
4 OTHER	REQUIREM	ENTS				l	
i. OTTILIK	. ALZOHALIVII						
						L.S. SI	GNATURE



Appendix 4.1a. Request for train path allocation (e-papir)

Republic of serbia JSC "Infrastructure of Serbian Railways" Rail Infrastructure Accsess Department www.infrazs.rs

Bussines name / title

REQUEST

FOR TRAIN PATH ALLOCATION

Basic information about the applicant

Head office														
Contact phone														
Name and surname of the representative														
Identification number							PIB							
Email address									I I	L	<u> </u>			ı
Basic data on the required train path														
	Number	of	De	esire	ed tim	e			R	oute	;			
Train type	train previous		depart	ure	arri	val	from		to			vi	a	
			1	Note	e									
		Т	rain tir	neta	ıble d	ata								
Stops in service points	Staying time in service points [min]			Running calendar										
	Train data													
								•						



	Additional				В	Braking	
Type of traction, serial No of traction unit, route	traction units, serial No of traction unit, function in the train, route	Series and No of the wagon /motor unit	Train mass [t]	Train lenght [m]	Туре	Percentage [%]	Maximum train speed [km/h]
			Special	note			

I am aware that, if I do not submit the stated data, necessary for the decision-making of the body within 8 days, the request for initiating the procedure will be considered irregular.

The request can also be submitted on sektor.pzi@srbrail.rs

In	, on	
		Applicant's signature



INFORMATION FOR THE APPLICANT



Appendix 4.2. Instruction for completion of the Request for train path allocation

		Specify train category: Passanger train (FurgCity, InterCity, express, feet, semi-feet,			
	Train type	Passenger train (EuroCity, InterCity, express, fast, semi-fast, passenger, cross-border, suburban, train of accompanied motorcars, travel agent's train, empty train);			
1.		Freight train (single type of load train, single wagon load train, intermodal train, express, fast, direct, sectional, block train, pick-up goods train, circuit-working train, industrial, military, train with empty wagons, locomotive, test)			
1.	Train No in the previous timetable	Specify the number of the train from the previous timetable, whose path elements match applicant's request (eg. 541, 40760,)			
	Desired time	Specify the desired time of the train departure from the origin station or the time of arrival to the destination station			
	Route	Specify the origin and destination station of the train route and characteristic service point between those two stations which define the train route			
	Stops in service points	Specify all service points where the train needs to stop			
2.	Staying time in service points	Specify the needed staying time in each service point, in minutes			
2.	Running calendar	Specify the days of the train running. For the trains whose running calendar covers several days, indicate the calendar on the entire route. In case a train path for an optional train is requested, indicate "Optional".			
	Type of traction, serial No of traction unit, route	Specify traction type (electric or diesel), serial number of traction (operating) locomotive if there is change of traction on the required route			
	Additional traction units, serial No of traction unit, function in the train, route	Specify number of additional traction units, traction units type (electric or diesel), serial number, position on the train (engine, double heading, banking,) additional traction unit running route			
3.	Series and No of the wagon/motor unit	Specify wagon series (letter designation of wagon series) and number of wagons of the train i.e. series, number and serial number of multiple-unit sets (DMU/EMU)			
	Train mass	Specify weight of all vehicles on the train including weight of operating locomotives			
	Train length	Specify train length in metres without the length of operating locomotives			



		Braking type: specify braking type (G, P, R, Mg,)
	Braking	Braking percentage: specify braking percentage which has to be considered during timetabling
	Maximum train speed	Specify maximum train speed considering characteristics of vehicles on the train
4.	Other requirements	Specify other requirements of the train such as: shunting of vehicles, change of train composition, connection, staff shift, type of intermodal transport unit, dangerous goods type, special consignments, hand-over procedures on border crossings, trains hand-over on mutual confidence, technical stops (inspection, water supply, waste handling and similar) and time period required, need for additional track capacities (side tracking, pre-heating/cooling, forming of trains and similar), need for access to other additional service facilities and similar.



Appendix 4.3. Deadlines for annual 2020/2021 timetable preparation

Phase	Authority	Deadline
International annual capacity allocation requests	RU	14.02.2020.
Regular deadline for submitting allocation requests for annual train timetable	IM	19.12.2019. – 14.04.2020.
Coordination and harmonization of requests	IM/RU	15.04.2020. – 06.07.2020.
Presentation of the First Draft timetable to RU	IM	06.07.2020.
Draft review – remarks, suggestions, proposals and opinions	IM/RU	07.07-07.08.2020.
Draft timetable 2019/2020	IM	24.08.2020.
Solving of problems and questions	IM	25.0831.08.2020.
Extraordinary requests (remaining capacities)	RU	12.10.2020.
Timetable coming into effect	IM	13.12.2020.



${\bf Appendix\ 4.4.\ Deadlines\ for\ amendments\ to\ annual\ 2020/2021\ Timetable}$

Submission date of requests for amendments to annual timetable	Deadline for capacity allocation	Application date for amendments to annual timetable
14.12.2020.	18.01.2021.	01.02.2021.
08.02.2021.	22.03.2021.	05.04.2021.
12.04.2021.	24.05.2021.	13.06.2021.
12.07.2021.	23.08.2021.	06.09.2021.
09.08.2021.	13.09.2021.	04.10.2021.



Appendix 5.1. Overview of railway lines on which train running is possible when they are manned only with engine driver

Train running with engine driver only in a traction unit, without train crew (engine driver – without train crew), can be performed on the following lines:

- Belgrade-Stara Pazova Šid state border (Tovarnik);
- (Belgrade) Stara Pazova -Novi Sad Subotica state border (Kelebija);
- Belgrade Mladenovac-Lapovo-Niš-Preševo state border (Tabanovci);
- Belgrade Rakovica Jajinci Mala krsna Velika Plana;
- Belgrade Centar Pančevo Varoš (Vršac);
- Belgrade Resnik Požega Belgrade-Stara Pazova Šid state border (Tovarnik);
- (Belgrade) Stara Pazova -Novi Sad Subotica state border (Kelebija);
- Belgrade Mladenovac-Lapovo-Niš-Preševo state border (Tabanovci);
- Belgrade) Rakovica Jajinci Mala krsna Velika Plana;
- Belgrade Centar Pančevo Varoš (Vršac);
- Belgrade Resnik Požega Vrbnica- state border- (Bijelo Polje)- section Resnik Požega Užice;
- Inđija Golubinci;
- Novi Sad Novi Sad Marshalling Yard Open line junction Sajlovo;
- Belgrade Centar Novi Belgrade:
- Belgrade Centar Open line junction G (Rakovica);
- Belgrade Marshalling Yard "A" Ostružnica Batajnica;
- Belgrade Marshalling Yard "B"- Ostružnica;
- Belgrade Marshalling Yard "A"-Open line junction "B"-Open line junction "K/K1"- Resnik;
- Ostružnica Open line junction "B" (Open line junction"K/K1");
- Belgrade Marshalling Yard "B" Open line junction "R"-Open line junction "A"-(Resnik);
- (Belgrade Marshalling Yard ,,B") Open line junction ,,R" –Rakovica;
- Belgrade Marshalling Yard "A" Open line junction "T" Rakovica;
- Belgrade Marshalling Yard "B" Open line junction "T" (Rakovica);
- Connecting line in the area of Open line junction "K/K1": (Open line junction "B") switch "K" switch "K1" (Jajinci);
- Topčider Open line junction Savski most Novi Belgrade;
- (Open line junction Pančevački most) Open line junction Karađorđev park Open line junction Dedinje – (Open line junction G);
- By-pass line of Mala Krsna station: (Kolari) junction points 1 junction points 28 (Osipaonica);
- Open line junction Lapovo Varoš Lapovo Marshalling Yard Lapovo;
- Trupale Niš Marshalling Yard Međurovo;
- Crveni krst Niš Marshalling Yard;
- Niš Open line junction bridge (Niš Marshalling Yard);
- − Mala Krsna Požarevac (Bor);
- Pančevo Varoš Pančevo Vojlovica;
- Smederevo Mala Krsna;
- Novi Sad Marshalling yard Open line junction Sajlovo.

On the other lines, in particular cases, train running can be performed with engine driver – without train crew in compliance with terms stipulated in the Annex II of the Traffic Rulebook– Rulebook 2 ("Official Gazette of the Community of Yugoslav Railways", No 3/94, 4/94,5/94,4/96 and 6/03).



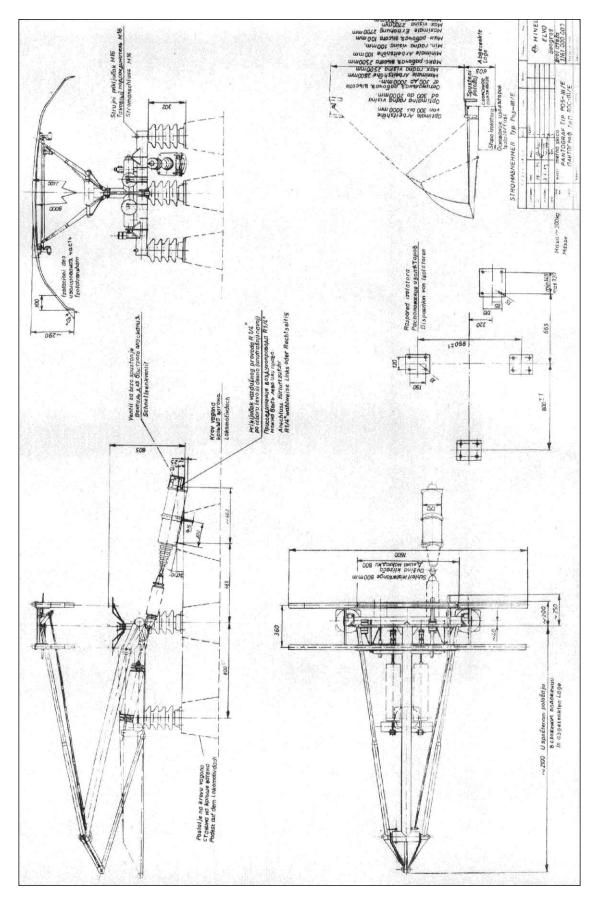
Appendix 5.2. Overview of the lines fulfilling the conditions for train running with an engine driver only

List of Serbian Railways Infrastructure lines that do not meet the conditions for operation of traction units with an engine driver only (other lines meet the conditions):

> (Belgrade) – Resnik – Požega- Vrbnica- state border (Bijelo Polje) - Užice – Vrbnica section.



Appendix 5.3. Geometry of pantograph (current collector) TIP POS - 254/III used on IŽS network





Appendix 6. Register of infrastructure data

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hoqemil	Distance in km Chainage	3 4	3,566 94+000 STARO SELO	100+302	6,011 106+313	1,688 108+001 LAPOVO Marshalling Yard	4.500 114+100	2,875 116+975		6,650 126+950 LANISTE 4 445 131+395 BUKOVČE		140+700	5,281 145+981 RASPUTNICA CUPRIJA 6,664 152+645 BABAČIN	*8.582 163+670	2,930 166+600	5,000 171+600	173+600	2,710 1/0+310 31ALAC 5,600 182+000 STEVANAC	186+486			2,723 194+939 BUNIS	2.207	2,100 203+500	2,117 205+617	2,383 208+000	2,480 210+480 ADROVAC 3,717 214+197 ALFKSINAC	217+468	1,317 218+785	3,285 222+070	5 245	1,359 229+309	3,281 232+590	2,349 234+939	6,066 241+005	1,750 242+741 ODV. SNK. 1 - 3 MS 0.842 243+583 MIŠ	249+462	253+946		1,569 257+010 MALOŠIŠTE			2,593 265+854 PUKOVAC	267+942		3.267 278+831 ŽIVKOVO	280+300	281+975
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The control of the		Altitude	30	220,0	255		282,6	306,9	П	324,4	333,3	Γ	346,7	367,5	3/1,7	383,0	397,7	1	421,2	429,7	П	T	120.0	148,8		124,6	13,4	178,6	157,0	1364	153,4	123,4		108,5	6,86		0.00	0,00	Γ	83,1		T	83.6	0,00	92,6	8,66	111,4
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Second Second Second Service point Second Second Service point Second Second Service point Second Second Second Service point Second S			Н	+	+	3	+	+	Н	_	- (-		Н	_	- (6)	_		+	+	+	1	+	+	_	Н	+		2 2	_	e -	- (-	-	3	2	_	+	+	+	3	H	_	+	m -	- (**			_
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Characteristics Characteri		Name of service non		KOVAC	ELICA	OJSKA ROSULJA	DEJANE	AIN KAMEN	NCE	DICIN HAN	A MORAVA ENIČKI MOST	BAL	8OJ VRANJSKI	NJSKA BANJA	ADOVAC	OVAC	ANOVAC	OVICA	AREVAC	AVNA GRANICA		OVICA	PUTNICA KI	POTOK	Е	E	IN		A IVANČA	STOVI	ZANI/ŠEPŠIN	ARI	KOVAC	ANJ	ARI	JA SMEDEREVSKA	SKR. 1 MALA KRSNA	SKR 28 MAI A KRSNA	BALJ	AONICA	AONICA	AVČINA	AORCI	OVINSARAURUI	JEVO/TRNOVČE	IKO ORAŠJE	IKA PLANA
Distance in km Distance in km Distance in km Distance in km S 230 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						10 PAL	725 PRE1	86 MON		591 VLA	35 I FPF	SS STU				'25 RIST	392 BUJ	712 LET	OO DDEE	52 DRZ		706 RAK	708 RAS	77 BELI						SOO BRE	67 DRA	71 UMC	115 ŽIVK	119 VOD				45 ODV			194 OSIP	00 LUG		OO MILC	12 KRN	45 VEL	579 VEL.
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10 10 10 10 10 10 10 10	Special Warrange and St.	Distance in km	3	5,59	6.08	6,74	4,11	3,21	3,45	3,25.	2,06	2,920	2,38.	6,57	7.209	4,310	7,96	7,02	5,83	8.14				*5,419	4,07.	0,89	3,64	3,42	5,62	2,70	1 86	4,60	4,54	2,90	5,390	5,96	1,23	*0.02	1,75	2,90	1,29.	1,60	3,00	4,35(3,11.	4,43	4,73.
#*************************************	handover to public		Н									1888.										0000	0.10.1988							01.06.	1924.											10.12.	1886.				



	əbuiilA	30	9011	126.3		84,96	134,8	133,8	153,9	79	79,5	82		82,6	83.3	83,5	83,6	84,2	4,70	109,4	110,2	110,7	6,601	110,3	110,5	113,2	128		188,3	Τ	Τ	00.	661	207.2	1,0	Τ	235,3			265	190	107	286,9
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	Maximum permitted train length	a - Paraćin		892	- State Border	659	803	590	013	663	999	718		493	785		812	938	/99/	929	793		731	780		507	994	agoman)	488			000	000	009	200		524			603	119	614	791
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		\dashv	0+000 RASPUTNICA ČUPRIJA	7+420 PARACIN		36+061 STARA 42+861 INDITA	48+050 INDIJA PUSTARA	52+952 BI	58+785 ČC	62+350 KARLOVAČKI VINOGRADI	66+571 SF	71+897 PETROVARADIN	+688 B	78+039 NG	91+381 K1	LS 950+86	03+538 ZMAJEVO	116+745 VI	22 620 M	136+163 MALI IĐOŠ POLJE	144+198 BAČKA TOPOLA	52+800 M	157+818 ZE	N 0/6+7910 N/167+180 N/			176+474 SUBOTICA 184+582 DRŽAVNA GRANICA		0+241 NIŠ	0+736 ODV. SKR. 4 NIS	1+766 PALILULSKA RAMPA	3+400 V	2000	0+200 EI NIS	14+700 PF	17+148 SI	22+509 OSTROVICA		29+500 R.	31+700 DG	34+300 CRVENI BREG	680 B	44+912 BELA PALANKA
	Chainage	4															-											┚															Ш
	Distance in km	3	005.0	6.920		008 9	5,189	4,902	2,589	3,56	4,221	5,320	5,79	0,351	9.74	6,675	5,482	13,207	11,57	3,343	8,035	8,602	5,018	4,204	4,782	3,68	8,108	2,12		0,495	1,030	1,634	2,061	4 300	4 200	2.448	5,361	1,250	5,741	2,204	2,600	3.254	5,232
handover to public transport	Гей тгаск	2						10.12.	1883.				23.10.1961.	1001	31.02.1304.		_				1882	.000					05.12.1882.									01.06	887.						
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	Loading gauge	59	ZS-1	ZS-1	ŻS-I	ŽS-I	ZS-1	ŽS-I	ŢS-I	ZS-1	ŽS-I	ŽS-I	1-SZ	1-67		ŽS-I	ZS-I	ŽS-I	ŽS-I	ŽS-I	1-87	1-SZ	ŢS-I	ZS-1	ZS-1	ŽS-1	ZS-I	1-67	ŽS-I	ŽS-I	ŀ	J.X.I	ŽS-I	ŽS-I	ŢS-I	ZS-I	1-67	ŽS-I	ŽS-I	ŢS-I	ZS-1	1-57	ŽS-I	ZS-I	ZS-I	1-S7
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[%] ι	Gradient of the station	\perp	0			Ш	6,4	8,0		×			9,5		0,0						0	10	1,34	3,5	6,2	ш		7,0		Ш	0	2.5		-		0	0	-	-		_ [1,,	2			2,3
s	Міпітит сигуе гадіи		350	400	400	009	300	500	550	3000	700	500	300	2000		300	009	200	800			009	300	500	350	009	009	200	300	1905		300		400		400	400	450	450		500	430	200		000	900
Froquensi FransporF	Open for passenger /f	22	٥	-			P/F	P/F		D/E	1/1		P/F		Ь	Ь	<u>م</u> ا		Ь	Ь	P/F	P/F	Ħ	P/F	1/1		P/F		P/F		D/C	1/1							P/F		P/F	P P	P/F	Ы	Р	P/F
0.000	Occupancy of service		-	+	L	Н	S	S	Н	<u></u>	-	_	S/E P	$\frac{1}{2}$	Ы	D	<u>а</u> , а	+	Д	Н	a a	+	H	S		Н	S	+	EP	Н	2	S	+	D	\vdash	S	-	S C	Ь	Н	S	2	O S	Н		-
unog	Freight car scales Side-/end-loading pla	19 20	+	+	H	Н	+	0.1	Н	+	-	\forall	Yes S/	+	H	+	+	+	\vdash	Н	200		3 2		100	Н	+	+	Yes S/E	Н	+	J.	\vdash	Н	+	+	Ť	. 5.	0,1	Н	0310	2	-	Н	Ť	2
nic	Service point code - J	Н	12414	12416	12417	12427	12418	12420	12421	12422	12424	П	12499	12470	16052	16053	16054	91091	16015	16006	10007		21002	21003	21005	21006	21007	21008	21009	П	16501	15201	15202	15203	15204	15205	15207	15250	15209		15260	15211	15213	15214	15215	15251
niog sorvise so	Manner of securing th	17	0				6	9	Н	4			9		-	-	-	+	-			4	∞	oo 4	0	6	6	†	8	Н	-			-		-	-		-			-	-	Н	+	-
noiisli	Manner of traffic regu	16	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance		with	AB with TWT	AB	AB	AB	AB	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance		RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance
	Tracks for acceptance of the longest trains	П	2.1.3	,			2и3	2и3		2 11 3			2	Moravita	3			T	2		45	2и3	2и3	2и3	2и3		2и3	Ť	4и5		elo Polje)	4		3		3		4	2		4 (0	3		1	4
A←B noitserion	Maximum permitted train length	14	713	CIV			624	624		909	020		711	State Border - (Stamora Moravita	400		†	T	269		594	909	663	836	662		999	t	643		e Border - (Bijelo Polje)	595		892		574	504	706	602		652	100	602			593
	acceptance of the longest trains	13	2 3				2 и 3	2 и 3		2 11 3	2		2	late Border	8и10			t	3		35	2и3	2и3	2и3	2и3		2 и 3	\dagger	4и5		nica - State B	4	П	3		6		4	2		4 (0	3		-	4
B←A noirection A→B	Maximum permitted train length Tracks for	12	713	+			624	624		969			710	Pančevo main st - Vrčac - S	364				269		+			836	+	Н	599	\dagger	643		Požega - Vrbnic	594		771		572	504	689	109		649	29.0	009		,00	290
		Н					1		Ц				+	nain st		4		+		Ц	4	╀				Ш				Ц	- Pože		Н			+				Ц				Ц		4
Maximum peeds beed	Right track Left track	Н		6	20			30			100		00	ančevo	02	\dashv	80 100	+	7.2	001	90	50				100				D2 80	- Resni	70		8	6		06	2	90	8			100			
	Railway line category	ш	212	3 2	33	8	D3	3 8	8	8 8	3 8	8	D3	-1:	100		000	1 4	4		4 2	7 7	22	202	D2	D2	212	3 2	D2	22	Centar)	D4	7	4	4	4 2	1 2	14	74	4	4 2	1 2	14	4	41	74
	Class of railway line	П				П		T	П	\top		П	Z Z				M	1		Н		+	Н	N N		Н	_	+	M	M	ograd			П				+		П	\top			N :		╛
əu	Single/double-track li	Н	S	+	\vdash	Н	S		Н	S	+	+	S	07 Benorad	-	+	0 0	+		Н	+	S	Н	S	+	Н		00				S	Н	S	+	+	+	S		Н	S	+	+	Н	+	2
	Type of service point	Н	m c	+			0 "							10	L	_			-										+	2	-	L		- 2		61.0	-			6			+	,,		
	taion asivas 30 anvT					<u>C3</u>																				9				_					323					0.					2510	
	Name of service point	7 (2) (3) (3) (4)	OCRKVICA CIELLIV	SINJAC	58+800 DURĐEVO POLJE	61+900 CRVENČEVO	63+817 STANICENJE 67+300 SOBOT	PIROT		VELIKI JOVANOVAC	CINIGLAVCI	SREĆKOVAC	97+423 DIMITROVGRAD	placavira dramica	0+000 BEOGRAD CENTAR	KARAĐORĐEV PARK	DAVICOV SPOMENIK	7+100 KRNJAČA MOST	8+120 KRNJAČA	I SEBEŠ	12+492 OVCA	18+206 PANČEVO VAROŠ	7 BANATSKO NOVO SELO	S VLADIMIROVAC	BANATSKI KARLOVAC		VILIMA	73±300 VLAJKOVAC 81+797 RASPITINICA A HI IMA	82+853 VRŠAC	98+314 DRŽAVNA GRANICA	ALASE BESNITY	BELA REKA		15+708 BARAJEVO	17+900 BARAJEVO CENTAR	23+094 VELIKI BORAK	STEPOIEVAC	VREOCI	45+386 LAZAREVAC	46+900 KM 46+900 PB	LAJKOVAC	58+962 SLOVAC 63+900 MI ABEVO	67+154 DIVCI		IVERAK	77+724 VALJEVO
	Сћајпаде		48+500							81+700					0+00(500	45+855						98+31	30770														000	
	Distance in km	3	3,588	3,300	2,000	3,100	1,917	5,635	3,965	4,800	4,307	2,200	4,723	0,00		1,232	1,568	2,412	1,020	1,861	2,511	*3,007	15,801	11,848	*5,207	3,996	7,300	6 407	1,056	15,461		7.212	4,568	3,503	2,192	5,194	7 880	6,635	8,124	1,514	5,700	4 918	3,254	2,089	4,457	4,024
public transport	Left track	2					=	1887.							:66	61.8	0.E					11.10.1935.	26.08.	896.		08 12	1894.			20.07.1858.			29.11.	1958.			29.11.	1958.	0.1	1968			29.11.	1968.		
Date of handover to	Right track	-					_	1 21	-				\perp		٤6	61.8	3.0		SE6	тп	П	Ē	26	Ĩ		80	==			20.0			25	1			52	=		5 -			25	Ť		



	9putitIA	30	264	300 5	501		487,1	411,9	352,1	П	Τ	311,6		T	T	T	363,2	401	418,4	200		631	784		612,5	531.5		390,3	T	447,7		453,2	T	505 2	561.5	553,7		T	109		129,5	Τ	T	153.0	171,6
	Loading gauge	29	ŽS-I	1-87	1-S2-1	1-S2	ZS-1	ŽS-I	I-SZ	1-S2	1-63	ŽS-I	ZS-I	ZS-I	1-82 1-82	1-S2	ZS-I	ZS-I	1-87	1-SZ	I-SZ	I-SZ	ZS-1	ŽS-I	ZS-I	1-SZ	1-SZ	I-SZ	1-07	ŽS-I	ZS-I	I-S2	1-SZ	1-62	ŽS-I	ŻS-I	ZS-I	F	ŽS-I	ŽS-I	ŽS-I	ŽS-I	1-07	ŽS-I	I-SZ
of the line [daN]	←	28					91	91	6			8		,	+							-		+	18	16	-	17		4		4	+	-		9	П		6		1			4	\Box
Ruling resistance	→	27	17	+	17	+	10	1	1	Ц	1	1	Ц	0	+	L	\dashv	\pm	× ×	+		18	+	+	1	1		1	1	∞		7	10	10	+	Н	Н		m	+	9	\perp	1	10	Н
Ruling gradient	Incline	Н		9	10 0	+	91 01	0 15	8	Н	+	9 0	Н	0	+	╀	4 0	+	17 0	+	H	18 0	+	+	0 17	0 16	+	0 17	+	8	\mathbb{H}	6 3	+	10	0 6	Н	8	H	2	\vdash	5 0	+	+	8	Н
[%] u	Gradient of the statio	Н	1,2		2,2		-	2	2	Н	\dagger	7,5	H	\dagger	T	t	1,5	_	2,5	_	H	1,5	c	_	2,5	2		0	t	1.5	\perp	1,5	_	1.	_	\perp	Н	F	2,4		3,2	T	\dagger	7.1	2,0
sı	мілітит сигче гаді	23	300	300	300		300	300	200			200					200	400	350	000		400	400		300	300		300		300		350	400	350	400	400			250		550	I		550	550
TroqsnsrT Tdgiər	Open for passenger /I	22	Ь	d 0	ь	Ь	Ь	P/F	Ь	Ь	4	P/F		Ь	у д	Ь	Ь	P/F	Д О	Ь	Ь	Ь	Ы	Ь	Ь	Ь	Ь	P/F	4 0	P/F	Р	Ь	P/F	7 0	. Ы	Р			P/F	Ь	Ь	Ы	7 0	Ь	P/F
	Occupancy of service	\vdash	Þ	=	0 =	-	Þ	ы	D	Н	0	-	Н	-)	╀		-	4 =		H	D		-	n	=		Ь	+	D	H	H	۵.	=		Ы	Н	٥	- 2	+	ם	+	+	D	Ь
Horm	Freight car scales Side-/end-loading pla		+	+		╀	Н	S	+	Н	Voc	S	Н	+	+	╀		S/E	+	+	H	Н	+	╀	+	+	\vdash	S	+	+	H	+	S	+	+	Н	Н	9	S	+	Н	+	+	+	S
nic	Service point code - I		15101	15112	15103	15104	15105	15106	15107	15116	CHE	15150		15111	15114	15115	15108	15151	15701	15716	15717	15702	15703	15705	15706	15721	15720	15708	15700	15710	15718	15711	15712	15713	15714	15715	15723	13450	13201	13202	13203	13204	13206	13207	13250
niog sorvise se	Manner of securing th	17	-	-		1	-	-	-	Н	t	1	-	-	-		_	_,		1		1			1	-		1	t	-		-	-	-	-	-		-	6		6	\pm	\dagger	6	9
noitslu	Manner of traffic reg	16	RC with station distance	RC with station distance	RC with station distance RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	RC with station distance	SC with station distance	RC with station distance	station distance	(0,00)	station distance	station distance	station distance	station distance	station distance	station distance	station distance
	Tracks for longest trains		2	,	0 00	,	3	9	3		٠	3		,	0		3	ε,	-	-		3	m "	,	2	-		4	1	3		3	2			3	- 1	order - (Volko	Т	T	3				3
A←B noitsəriG	Maximum permitted train length	14	520	999	544		552	544	549		640	349		250	223		563	552	346			539	486		536	572		553	İ	549		307	466	550	969	544	1 10	eB	099		722	Ť		734	844
	Tracks for acceptance of the longest trains	13	2	,,	0 (0	,	3	9	3		5	3		,	0		3	ε,	-	+		3	m ("		2	-		4		3		3	2			3		ral Jankovic	2		3	T		3	3
Hection A→B	Maximum permitted frgin length		553	875	543	2	554	544	551		647	292		122	334		999	558	553			539	486		550	574		551		551		307	495	553	738	547		Polje - Deneral	099		722	T		734	844
	Left track	=					Ш	- 7/s		ш	70	1	Н		_		+	1			Ш	Ш	+	t				_		-	Ш			-	_	Ш	4	- Kosovo	_	_	Ш			_	Н
Maximum peeda betimned	Right track	10						20							100			06			20		70		50		30			30					20			šak - K				40			
	Railway line category	Н	D4	4 2	1 2	D4	4	D4	4 6	4	4	D4	D4	7 7	1 7	7	D4	D4	4 2	7	D4	D4	D 24	D4	D4	4 2	D4	D4	54 2	D4	D4	D4	4 2	4 2	D4	D4	D4	vo - Le	S	5	C3	8	3 8	3 8	C3
	Class of railway line	Н	\top	$^{+}$	N N	M	M	W :	N N	Н		M	\forall		N N	†			N N	$^{+}$		W			\top	Z Z		M	Z Z	M	M	M	Σ:	Z Z	N	Н	H	声	M	M	M	M	Z Z	N	M
əu	Single/double-track li	7	S	200	0 00	S	s	S	o s	S	,	S	S	S	0 00	S	S	S	20	S	S	S	s s	o so	S	s s	S	S	200	n s	S	S	S	0 0	S	S	S	- apovo	S	s	S	s o	0 0	S	S
	Type of service point	9	+	m -	2	1 00		+	n -		,	_	Н	+	4 6		_	_		+	3	2	_		+	2 3	1 10		2 6	╀	3	_		2 0	H	Н		109 La	T_	3	Н	е,	2 "	_	
	Name of service point	. 2	I GRADAC	ı		ČKI KIK					reight et)	POŽEGA (PUTNIČKA)	53 POŽEGA			KA RAMPA		ght st.		TĆA POLJE				200+300 RIBNICA ZLATIBORSKA	A				BANIA	NALIMU		Е	E freight st.	JEA	OA		GRANICA				IC .	15+800 RESNIK KRAGUJEVAČKI	J. P. C. P. P. C. P. P. C. P. C. P. C. P. C. P. C. P. C. P. C. P. C. P. C. P. C. P. C. P. C. P. C. P. C. P. P. C. P. P. C. P. P. C. P. P. C. P. P. C. P. P. C. P. P. C. P. P. C. P. P. C. P. P. C. P. P. C. P. P. P. P. P. P. P. P. P. P. P. P. P.	AC.	/AC
			VALJEVSKI GRADAC	91+600 LESKOVICE	SAMARI	DRENOVA	RAŽANA	KOSJERIĆ	KALENIĆI	133+600 OTANJ	POŽEGA (freight st		142+489 ODV. SKR. 53 POŽEGA	145+600 RASNA		BUKOVIČKA RAMPA	SEVOJNO		163+881 UZICE	173+400 RISTANOVIĆA POLJE	TRIPKOVA	SUŠICA	BRANESCI	RIBNICA Z	205+407 JABLANICA	211+600 GOLES 214+832 ŠTRPCI	RAČA	PRIBOJ	228+300 POLJICE 232+800 PRIBOISKA BANTA	241+278 BISTRICA NA LIMU	DŽUROVO	252+616 PRIJEPOLJE	PRIJEPOLJ	I IIČICE		285+193 VRBNICA	DRŽAVNA	OVOGA I ABOVO	3+405 BATOČINA	8+300 GRADAC	12+284 BADNJEVAC	RESNIK KI	CVETOTEV	JOVANOV	28+829 KRAGUJEVAC
	Сһаіпаде								129+842		1	140+787		1								178+350	185+225											259+600				0+666					- 1	1	1. 1
	Distance in km	3	6,846	7,030	9 097	4,533	3,674	7,529	6,442	3,758	2,200	4,987	1,702	3,111	2,002	2,700	2,774	4,926	1,981	2,756	2,600	2,350	8 005	086'9	5,107	3.232	4,668	5,790	3,010	8,478	5,022	6,316	3,240	5.744	8.688	11,864	2,245		2,739	4,895	3,984	3,516	2,031	1,735	6,494
Date of handover to public transport	Right track Left track	1 2								25.07.	1917.												21.05.									21.05.	1976.								03.03	1887.			



	Altitude	30	200.1	236,5	0.170	241,9	216	010	210,3	187,7	T	200 4	202,7	271,4		233,4	304.2		343,1	370.8	313,0	393		406,3	416,5			441		454		470	401	495	496		497	93,7	85,1	85,3	9 7 90	87.8	88,2	868	119,6	124,6
	Loading gauge	29	ZS-1	ŽS-I	ŽS-I	1-SZ	ŽS-I	ZS-I	ŽS-I	ŽS-I	ZS-1	1-67	ZS-1	ŻS-I	ŢS-I	78-1	ŽS-I	ŽS-I	ZS-I	ŽS-1	ŽS-I	ŻS-I	ŻS-I	1-87	ŽS-I	ŽS-I	1-SZ	ŻS-I	ŽS-I	7S-1	ŻS-I	ŢS-I	ZS-1	ŽS-I	ŽS-I	ŽS-I	ZS-I	T	ŽS-I	ŽS-I	ZS-I	1-SZ	ŽS-I	ŽS-I	ZS-I	ŽS-1
Ruling resistance [Mab] enil edt fo	←	7 28	,	1	-	4	+	4	0	∞	1	oc	+	,		2	6		1			r		n	9			0.0		4		4	"	0 4	5				5	-	-	- 8	5	1	+	o .
overstolers on H-d	→	26 27	8	0	-	3 4	8	,	2	7	+	00	-	9 0	\vdash	e 0	+	-	8	0	+	+		0	3	Н	+	0	+	× ×	H	8	-	3 -	+	Н	+	H	5	_		3 0	5 6	3	+	0
Ruling gradient	Incline		7	10	-	7 6	-	+	7	0		7		5	H	v v	-		9	1	4	4		4	4		t	9	,	٥		2	v	0 4	3		1		0	-	,,	n m	9	3	9	0
[%] u	Gradient of the station	24		7,0		2,4	Ш		6,5	1,8		10	7,7	0,4		0,8	_		7,0	4.1		2,2	Н	0,4	4,8			0,0	_	0,0		0,0	0,0						0,2			0,0				C, I
SI	Minimum curve radiu	23	300	300	000	375	300	000	300	300		200	-	300		300	250		300	270	300	250		300	300	300		300		300		300	300	300	300		300	L	3000	2000	2000	1900	1090	006	3000	1900
Troqensi TransporF	Open for passenger /f	22 D	P/F	Ь	P	P P	P/F	d 6	۵.	Ь	Ы	P/F		P/F	Ь	d d		Ь	P/F	P P/E	P/F	P/F	Ь	P/F	P/F		4 0	P/F	Ь	P/P	Ь	P/F	P/E	P/F	P/F	,	Д	L	P/F	P/F	D/C	P/F	P/F	P/F	P/F	L/L
	Occupancy of service		2	Н	-	4 0	<u>a</u>	-)	Ы	+	D Li	+	Ь		- =		-	Ы	F	- 1	М	Н	2	L	Н	+	а	- 1	4	H	e P	=		\vdash	\vdash	S	L	Н	D	F	- -	Е		DE	-
шюј	Freight car scales Side-/end-loading pla	19 20	S	S	-	o so	S	-	0	S	+	SAF	Ď.	S	H	-	+	H	S	0	9		H	S	S			Н	+	+	H	32	9	0 00	S	H	0.	H	S	0.	0	+	Yes S/	S	021	2
nc	J - sbos tniog soivrse	18	13210	13211	13212	13214	13215	13221	13217	13218	13219	13250	10701	12101	12102	12103	12105	12116	12106	12115	12108	12109	12110	12111	12113		12114	12001	12002	12003	12004	12005	12006	12007	12008		12022	25471	25470	25501	25500	25503	ŕ	24401	24403	24405
ne service point	Manner of securing th	17	6	6		6	-		6	6	+	4	+	6		4 4	- 6		2	0	, m	6		0	6	H		-	-	+	H	-	-		=	1	=	H	-	2	4	+	\vdash	5	+	0
noitsla	Manner of traffic regu	16	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance		station distance	station distance	station distance	station distance	station distance	station distance	station distance	station distance
	Jercks for the Jongest trains	15	2	2	,	7 2	3		7	2		4	-	3		2 0	2 2		2		- 1	2		2	2			2	,	,		3	,,	. 1	1	,	_	ľ	3 и 4	2и3	5 5	2и3	3 и 4	2и3	2н3	3 H 4
A⊷E Direction	Maximum permitted train length	14	558	632	717	620	999	103	166	746		738	900	631		727	658		989	644	1005	576		677	638			473	0.00	5/6		576	530	545	640		140	(inni)	732	573	113	623	505	524	522	2000
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A←B noitserion	Maximum permitted train length			593	533	040	523	5/5		804	181	253	Lokoteretna				555	Border - (Zvornik Novi	639	//09	628						20 (0)	614		497	67.5	247	614	-		853		574	017	819			- (Stitar)		
	acceptance of the longest trains	13		2и3	2и3	C H Z		2 H 3	Ħ	2и3	2 H 3	1и2	Novi Sad L			a - (Lukićevo	2 и 3	State Borc	5и6	2 H 3	2 и 3			2 11 3				1и2		2 и 3	,	2 H 3	2 m 3		t	2и3	П	2и3	1	3 и 4		-	2	П	
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	Railway line category Right track	Н	8	T_	9 V	- -	,,	V V	П	A A		Y	Marshalling Yard odvojna		3 3	1 1	V	18	2	D3	_	8	2 2	3 2	1 A	D3	D3	2 2 2	-	A	٦.	ق راہ	-	D3	D3	A	_		_	2 2	SV	C3	2 (Platič	D3	
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	jii.																																												
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			14+608 RASPUTNICA 1 15+751 RASPITNICA 2	, Ç	25+218 BUDISAVA	LOVO/G	Ä	DONII TITI	53+845 KNIĆANIN	PERLEZ	LOVAT	LOVAT		VI SAD	JLOVO		SPUTNI		MA	16+675 NIKINCI	21+344 PLATIČEVO	ENAK	31+373 RASPUTNICA 1	BAC	33+695 ŠABAC (kraj Km)	RASPUTNICA	RASPUTNICA	ŠTITAR	IBLJE M	22+031 PETLOVAČA	BARI	NJAVO	ŠNICA	DARSKA	NICA	ZNICA	ZNICA	KOVILJAČ/	RNJAK	BRASINA DONIA BORINA	SPUTNI	ŽAVNA	TI VIII IN S	0+675 RASPUTNICA 3	
		H	751 RA	20+569 KAC	7218 BL	38+394 VII	43+845 LOK	51+132 DC	-845 KN	58+175 PERLEZ	381 OR	-256 OR		505 NC	-185 SA		-915 OF -545 RA	$\ \ $	0+517 RUMA	16+675 NII	-344 PL	-900 KI	-373 K	715 SA	695 ŠA	0+712 RA	1+394 RA	7+725 ŠT	300 DL	-031 PE	25+800 RIBAR	300 PR	35+000 LE	-900 JA	45+400 LIPNICA	51+396 LOZNICA	-400 LC	56+183 KO	-700 G	65+354 BR 67+800 DO	-685 RA	-800 DR	000	-675 RA	
	Chainage																																	200								Ш	d		l
	Distance in km	3	*2,984	4,818	4,649	6,170	5,451	1,700	2,713	4,330	0.850	0,875		0.454	*2,048		0,630		10007	5.33	4,669	7,55	2,473	0.570	086'0		0,682	3 725	6,575	7,731	3,769	7 507	1 700	3,900	6,500	5,996	2,004	2,783	5,517	3,654	0,885	*0,800		0,675	
handover to public transport	Left track	Н		02.07.	1009.	1000	1889	15.07.	1927.	15.00	1925						11.09. 1935.			05.11.	1901.		90 60	1934			-,					15.05.	1950.							15.05	1950.	09.03.1978.			
Date of	Right track					L										Ш	1	Ш					_														_	_				60			ĺ



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[%] t	Gradient of the station	+		П	T	3,4	0	4,4	23	C,C	8,0	0	5,3		П	4,55		0,75		t	0	7	-	4,6	99	0,0	6,17	5.7	3,9	,	5,5	1	T	П	r	+	11	\dagger	1	Н	0,0	T	T
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	Occupancy of service	+	2	\vdash	4	Þ	<u>a</u>	Þ	=	+	Þ	E			Н	Þ	-	D	0	4	Δ.	Н)	Þ	=	+	Δ.	=	Þ	-	24	1		۵	-	1		+	1	Н	۵.	+	4
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ne service point	Manner of securing th	17	_	Н	+	6	4	2	,	1	2	,	7 2	\vdash	Н	7	+	2	-	+	3	Η,	2	3	,	4	m		3	,	ç	+	-	-	<u>D</u> F	+	1			Н	m	+	_
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Maximum permitted speed	Right track		517		30 (50)								25 (40)										1	80				100				100			- branc	•	(Uzići	50	evo – F		70	2	
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	Name of service point		0+374 STALAĆ	1+400 GRAD STALAĆ	3+887 MRZENICA	87970 MARKESAINE 11+923 DEDINA	14+559 KRUŠEVAC	19+400 CILLOR 21+384 KOŠEVI	25+308 GLOBODER		35+547 POČEKOVINA	38+949 TRSTENIČKI ODŽACI		53+238 LIPOVA	+638 TOMINAC	57+651 PODUNAVCI 50+028 1/2P ANIE ŠI	725 VRBA	65+881 RATINA	68+908 SIRČA	F521 KRALJEVO F538 ODV SKR 73 KRALJEVO	78+637 ADRANI	81+528 MRSAĆ	84+441 SAMAILA 88+610 GORIČANI	F260 MRŠIŅCI	F500 KUKICI 2303 ZABI AĆE	1000 BALUGA	+541 ČAČAK	F200 IRBUSANI 1994 PRITEVOR	494 OVČAR BANJA	200 JELEN DO	128+366 DRAGACEVO	F700 BORAČKO	+034 ODV. SKR. 54 POŽEGA	POŽEGA	214 connecting track to station	0+000 ODV. SKR. 73 KRALJEVO	>	0+000 ODV, SKR, 54 POZEGA	132 ODV. SAN. 33 FOZEGA	-0+870 POČETAK PRUGE	-0+057 SMEDEREVO 1+749 RASPITNICA JEZAVA	1250 GODOMIN	192 RADINAC
	Chainage	9 4	,±0												Ш												41 105+541							73 136+107	0+0		Ш			П			
yodow -	Distance in km	Н		1,026	2,487	2,953	2,6	1,9	3,924	4,6	1,8	3,402	6.7	4,038	2,4	2,013	2,2	3,6	3,027	0.917	6,099	2,8	4.169	3,650	2,240	2,697	6,541	2 794	7,500	6,706	1,1	3,800	2,334	0,0		*0,444		0.752	0,7		*1.832	*1,4	3,9
Date of handover to public transport	kight track Left track	H			15.05.	1909.							01.12.	1958.									29.09.	1955.				28.11.	1976.		28 11	1976.						25.09. 2001.			10.11.	1888.	



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10.11 1.032 1.04-129 1.06-130 1.06				ODV. SKR. 64	MALA KRSN/		RASPUTNICA RASPUTNICA	SMEDEREVO	MALAKBENIA	LJUBIČEVSKI			BUBUŠINACA		STIG	MAJILOVAC STP AFOVO		ČEŠLJEVA BA		MUSTAPIC MIŠI IENOVA	ZVIŽD	KUČEVSKA 1				VOLUJA	BRODICA	BOSILJKOVA BI AGOIEV K	MAJDANPEK	DEBELI LUG	LESKOVO		VLAOLE SEL	GORNIANE	ŠUŠULAJKA				MALI KRIVE				ZAGRAĐE	RGOTINA	RASPUTNICA
101.1. 1032 10.00		Chainage	4	9+124	10+872		0+000	4+011	71+272	82+200	87+763	89+100	95+632	100+800	102+727	100+055	116+414	122+272	126+038	131+800	136+067	140+650	144+546	148+582	156+492	159+700	163+582	170+740	178+852	181+800	187+674	191+800	194+/00	200+200	202+300	205+673	207+800	211+800	215+200	221+401	224+350	231+092	238+081	244+699	250+045
193.03 193		Distance in km	3	1,932	1,406		2,484	1,527	+	10,928	5,563	1,337	5,542	5,168	1,927	3,623	7.359	5,858	3,766	5,762	2.167	4,583	3,896	4,036	2,876	3,208	3,882	3,218	8.112	2,948	5,874										2,949				-
	handover to public		2	10.11.	1888.			4	+		1920.				Ц		12.03.	1939.	Ш			Ш			15.05.	1950.		29.09.	1958.		Ш				03.04.	1972.	Ц				11.1967.	03.10.	1963.	25.06.	1960.



The control of the		9butitlA	30			286,6		443		374,7			245,7	2162	2,012		188,5			1.48	140	128	116,1		115	CII		84,4		9,99		56,9	56,7		. 00	39,1	55.4	55,4									
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	FransporF	Open for passenger /fr	22			Ь		Ь		P/F			d	D/E	17/1		Ь			D/E	LVE	P/F	Ь		-	2.		Ь		Ь		Ь	Ь		£	P P	P/F D/E	P/F									
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195			Ц	7 CRV	3 PAN	2 MA	3 LAS	7 GRA	HAE	8 SVR	DAI	2 SVR	BOD 8	K K	SOR	3 DON	7 MIN	SEL.	5 MAI	V KA	Ž	S ZAJI	4 VRA	RAS	KAS	I IKN	SOK	5 TAB	4 TAB	BRU	CRN	S RAJ	8 ROC	Z VEL	8 MO) KOE	S DD A	8 PRA	KRA		RAS	RAS	4 RAS	4 KUR	3 KRA	127	RAS
195		Chainage	4	0+95	7+49	12+38.	20+64	30+25	32+60	40+01	46+01/	51+69,	128+09	58+36	72+10	75+01.	81+90	84+45	88+20	73+0/4	07+300	11+606	18+83	21+00	21+90	24+65	31+38	36+196	38+76	45+65	51+33(53+460	56+82	60+19	63+60	24+13	27+014	84+57	85+07		00+0	0+43	53+334	55+89	56+36	3	2+32(
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		eft track	I 61						2.			_			T		ť					_	_			_	_		4		_	_	_	_		_	•										
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	əbutitlA	30	194			212,3					241		552	248.8	2,0	290	313						381	430		500									8	113,2	109,2	0,011		78,8		75.0	100				
	Loading gauge	59		ŽS-I	ZS-1	1-SZ	ŽS-I	ZS-I	1-57	ŽS-I	ŽS-I	ŽS-I	1-57	1-87	ZS-1	ŽS-I	ŽS-I	ŽS-I	ZS-I	1-57	1-82	ŽS-I	ŽS-I	1-87	ŽS-I	ZS-I	ZS-1	ZS-1							9	H	J.W. I	1-W/	r	ŽS-I	ZS-I	r	ŽS-I			ŽS-1	
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[%] u	Gradient of the station	24	0,71			5.8			Ī		9,1		0,0	0.9	\perp	2,0				Ī	I	I	1,0	14		1,7										ш	2,7						I				
SI	мілітит сигуе гадіи	23		325	900	009	009	300	300	1000	300	300	1000	350	0	350	500	300	300	002	300	300	300	300	300	400	300	300									300										
Troqens:1 TransporF	Open for passenger /fi	22	P/F			P/F					P/F	i,	P/F	P/F		P/F	Ь						Ь	Д		Ь																					
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шод	Freight car scales Side-/end-loading plat	+	S		+	S	Н	+	-	+	S	-	^	S.	+	S		H	+	+	+	H	S	0.	H	+	+	10.0				E CED	r SER			S/E	+	+	H	H	\dashv	H	-	F SER	1	+	
nc	J - shoo trioq soivrs	Π	11001	11101	11121	11103	11129	11104	91111	11124	11106	11130	11100	11109	11128	11110	11111	11126	11112		11122	11125	11115	171111	11123	11117	11120	011110				OHION	NAILWAT OUT OF SERVICE		3	23450	24313	1						RAILWAY OUT OF SERVICE		T	
ne service point	Manner of securing th	17	-		\dagger	6	Н	+		+	4	:	=	0	-	11	6	Н	,	0	0	H	6	0	Н	6	+					77.	III W		8	4		+	-	4	1	=	=	AILW.	1	∞ ∞	
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	acceptance of the longest trains	13	4 4			1и2		1		+	3		2 H 3	2 11 3		3	2						2	2 11 3		2	†		ja - Peć *)	"I"-(Drenica) *)	actory				Iospital	2и3	1и2	Novi Sad stokel	Г	15 и 16	- 1	1 u 2				+	
B←A noitserion	Maximum permitted train length Tracks for	12 Mardara	Doljevac - Kastrat - Merdare - Kosovo 600 4			564			2		199		282	480	+	583	410			1			557	595		493			224 Kosovo Polje - Metohija - Peć	freight stJunc.	301 Subotica-Subotica Factory				-Subotica F		327	1	1	416	,	nc. "3 -Junc. 445 1			Sancevi)-Junction "1"-Junction "3		
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Maximum peeds betimined	Кідһт тғаск Гей тғаск	10 00	Doljevac				40													9	20								224 Kos	Kosovo Polje freight	301 8	*			302 S			Novi Sad		20	10000	504 (Podbara)-Junc.	40	1	ski Sance	40	
6	Railway line category	9	577	BI	BI	BI	B1	B1	B	BI	B1	Α.	V <	4	4	A	A	A	Α.	<	V V	V	Α.	X 4	V	A	V ·	< <		225 k		3	3 8	3			A.	303		B2	B2		బ	C3	305 (Rimski	ຣ	-
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ne	Single/double-track lin	7		S	s o	o so	s	S	n u	o so	S	S	0 0	200	S	s	s	s	S	200	0 00	s	S	0 00	s	S	s s	o so				6	0 00				s o	0		s	S	r	S	s		S	1
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	Distance in km Chainage Name of service point	4	0+247 DOLJEVAC		1,500 4+800 TOPLICKI BADNJEVAC			1,700 12+700 REČICA		2.575 18+800 BABIN POTOK	Ш	25+014	6,720 31+/34 I OPLICKA MALA PLANA	3,700 54+500 BAESING CI			46+646	49+300	52+000	53+554	1,321 34+833 KASPUTNICA KASTKAT 4,245 59+100 VISOKA	008+09	Ш	4,513 877525 DESISNA 2,555 69+880 KOSANIČKA RAČA	Ш		3,105 79+000 VASILJEVAC	84+400				0+000 SUBOTICA		e ma		Ш	2,345 3+600 SUBOTICA BOLNICA		1+121 BLOK 3 NOVI SAD		0,494 3+912 KRAJ PRUGE	4+413[PODBARA	2,169 6+582 RASPUTNICA 3			0,910 0+910 RASPUTNICA 1	l
public transport	Гей изск	2 1					1975	Ц			+	04.12.			04.12	929.		90 90	1930.	1	+	_	Ц	15.05	Ш			1				3.01.	1885.	to km 002+		_		1	_		+	-		Ц		01.03, 1969.	1
Date of handover to	Right track					- 6	7 2	•				9	11		0	-		90	1					15	1							80	I	an (*												01.03	



	ShutitlA	30	83,1	П	79,5	81,5	П	84,2	84,5	85	8/,/	89,5	88,2	1377	140,1	147,7	147,7	77	77	77	77	82.5	83,1	T	101,7	П	167	193,4		245,9	271.5		Т	101	101	84	79	73	72	89,5	П	5	101
	Loading gauge	Н	-	ŽS-I	ŽS-I	1-SZ	1	ŽS-I	ŽS-I	ŽS-I	1-87	ŽS-I	Į-SZ	-	L	ŽS-I		-	ŽS-I	ŻS-I	ŽS-I	-	ŽS-I	+	ŽS-I	Į-SŽ	1-SZ-1	ŽS-I	Н	1-SZ	\perp	ŽS-I	5		ŽS-I	ŽS-I	ZS-I	I-SZ	1-SZ	ŽS-I	$\ $	1 32	1-67
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s	Міпітит сигуе гадіи	23		450	300	300			500	500	200	450	700		700	700	700		300	300	250		300		338	200	500	009	400	250	230	200		090	300		948	300	494	300			
TreighF FransporF	Tognesseq tof neqO	22	P/F		P/F	P/F		P/F P/F	P/F	P/F	P D/E	P	P/F	q	4 d	P/F	P/F	D/E	P P	Ь				7/4	P/F		D/E	P/F		P/F	P/F			L	L/L				Д	4		L	FIF
200000000	Occupancy of service	Н	H	Н	+			<u>a</u> F	Η	D	Ξ	Þ	ы	0	4	Η	Н	۵	+	Н	_		Н	-	H 4	Н	1	- E	\vdash	D	F	Н		0		Н	Ц	Þ	-	0	$\ \ $	2	
щод	Freight car scales Side-/end-loading pla	H	S	Н	S	s s	1	so so	S	S	+	S	Yes S/E	\vdash	╀	Н	Н	0	2	Н	\dashv	H	Н	-	S/E	Н	+	S	Н	S	o.	Н	3	Von C/E		Н	Н	+	0	0	$\ $	0	res 3/E
nic	Service point code - J	П	23001	23002	23003	23004		23306	24203	24204	24205	24207			16316	16317	16317	21001	16014	21101				12404	13901	13902	13903	13905	13906	13907	13909		ě	21000	Т	21301	21302	21303	21304	21303			60017
service point	Manner of securing th	17	6	Ξ	= :	3 =	1	- «	000	2	c	7 =	4		2	-	4		\pm	4		-	-	Ŀ	9			9		9	9			0	0			0	9	2	1	٥	0
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A←B noitsetion B→A	train length Tracks for	4	558	Н		293	╁	938		+	+	424		pı	+	398		206	+	174				(a)	218		+	064		764	206	Н		643	+	H	H	753		100		ŀ	040
	ongest trains Maximum permitted	Н	-			1	┨	+	Н	-	+	+	П	ornik Grad	\perp				+	Н	-	nts 22-Jui	Н	(Resavic	0 0	Н	+	7	Н	7	5	Н		,	2	Н	Н	+	-			-	+
B←A noitsetion A→B	Tracks for acceptance of the	13	evi-Zabaij 2 и 3		1 и	2и3	ombor	3 n 4	2и3	2 и	2 11 2	2 2	2и3	3orina-Zv	\perp	2и3		Varos-Pancevo Vojlovica	5 И З	3 и 4	_	oction poi	Ц	spotovac-	4 (0		_	60		2	4	Ш	rizren *)	a Crkva	†		Ц	1и2		2 H 2	TE LINES	Vasariste	4 t
	Maximum permitted train length	12	Kimski Sancevi-Zabaij		363	293	7 Vrbas-Sombor	943	492	738	309	424	403	ic. Donja I		398		Varos-Pa	200	174		(Coka)-Junction points 22-Junction		ilajnac-De	667			790	į	764	506		312 Metohija-Prizren	515 Vrsac - Bela Crkva	043			753	103	100	MANIPULATIVE LINES	401 Vrsac-Vrsac Vasariste	040
Maximum permitted speed	Left track	=	200	40	20	40	30	40 (60)	(20)	_	20 (40)	(ot) o		(Brasina)-Junc. Donja Borina-Zvornil	20		10	309 Pancevo	-	20	$\overline{}$	Ta:	20 (30)	Markovac-Svilajnac-Despotovac- (Resavica)	20				20				312 1	313			40	2			MANI	401 V ₁	50
N 810	Railway line category	Н	-	A	Α.	< <			22	٦.	4 4	_	Н	308 (B	_	A	Н,	25	- 2	D2				311 Mg	2	A	4 <					4			A	. 4	_	_		< <	$\ $	-	C2
	Class of railway line	Н	H	r /	7		1			7	, ,	1 7	_	2	r /	7	7		T D	Ħ		track at the	7	-	L B2	7		Y Y	L A	L A	$^{+}$	7	9	ŀ	7	Н	7	_	$^{+}$, , ,	$\ $	ŀ	man
211		Н	\vdash	\dashv			1	_	Н			o s	S	+		_		\vdash	_	Н		unction tr	_	+		-				s o	+	S		\vdash	_					+	$\ $	ŀ	S
	Single/double-track li	Н	954	S	0,1	s s	$\left\{ \cdot \right\}$	T	S		ł	+	0.	100	Т	S	0,	-	Т	Н	$-\frac{1}{2}$	310 Jun	S	ŀ	T	S		o S	Н	+	+	1	ç	-	T.			7	-	-	$\ $	-	T.
Į į	Type of service point	9	-	8	_	-			-	- 1	5 -	101	-	9	0 6	_			- 6		-	-	14	-		3	E -		3		0 -	Н		-	9	0 00	3	-	ε -	1			. 2
µodsueл	Distance in km Chainage	3 4	10+270 RIMSKI ŠANČEVI	6,496	2,968	7,621 27+355 GOSPOÐINCI 6661 34+016 ŽABALJ	IJ	37+137 VRBAS 10 516 47+653 RTIT A	7,318 54+971	7,705	3,024	4,255 79+695 ČONOPLJA	ш	A8+686 B ASBITTNICA DONIA BOBINA	1,915	2,854 73+454 ZVORNIK		0+568 PANČEVO VAROŠ	0,732	1,614	0,561 3+475 KRAJ PRUGE	38+407 ODV_SKR_22 SENTA	0,757 39+164 ODV. SKR. 23 SENTA	O PANAMA DE MANAMA	9,432	7,568 17+500	5,700 23+200 RESAVSKO JASENOVO	7,350 34+820		6,164 42+864 DVORISTE	7 560	53+750		82+546 VIB & AC	1+118	8+599	5+436 102+699	4+816 107+515 JASENOVO	7+134 114+649		IJ	2, 5 (17) (22) (A	2,857 3+415 VRŠAC VAŠARIŠTE
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A←B inection B	Maximum permitted train length	14		842	OLY GER	SERVICE		733			ıa)	865		415	473		165		SERVICE					d May 31, 2002 (records No 300/2002 - Speed change Speed change Traffic and transport dispatching point Louding point Louding point ginals. ginals.
	Tracks for longest trains	13	16+413)	2и3	TITO	IN OF IT OF	3ecmen	3			ord(Bijeljii	5и6		2и3	2и3		1и2		Y OUT OF	Fabrika				dated May 31, 2002 9. Speed change 11. Traffic and traffic and traffic and traffic and traffic and traffic and signals. Independent of the speed o
Direction A→B	Maximum permitted train length	12	Kikinda-MSK(km 6+413)	842	And Benefit Describe Date WAY Out On CEBVICE	404 Paracin-Stari Ponovac R All WAY Of IT OF SERVICE	405 Surcin-Jakovo-Becmen	733			Sid-Sr.Raca Nova-St.bord(Bijeljina)	869		415	473		165		407 Ovca-Padinska Skela RAILWAY OUT OF	408 Sonta - Apatin Fabrika				warn In between ZTP Belgrade and UNMIK railways, dated May 31, 2002 dring point and stop 10. Dispatching point methods 11. Trailways and stop in the point and stop 11. Trails and trail and stop 12. Loading point in and stop in the stop in t
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organica (* v ice) ⁽ Anno (* vice)	Distance in km	e			6,			L	3,6	1,(3,7	8	7.7	3,6	1,0	1,8			L	6,1	6,5	the terri
Date of handover to public transport	Right track Left track	1 2											01.00	101.7	1912.		10.07.	1950.)The lines on



Appendix 7. Overview of primary train delay causes

	Primary train delay causes (IŽS)
No	Name
1.	Waiting for dispatch
2.	Waiting at the automatic block signal or protective signal
3.	Dispatcher's order
4.	Delay caused by the fault of an infrastructure manager's employee
5.	Entrance/exit to a turn
6.	Traffic on the left track
7.	Speed decrease requested by the infrastructure manager
8.	Delivery of order to the train driver
9.	Unplanned line closure by the infrastructure manager
10.	Level-crossing failure
11.	Failure on the overhead contact line
12.	Extended stay of railway vehicles
13.	Delay caused by restricted-speed running
14.	Rail crack
15.	Deformed track
17.	Technically defective switch
18.	Collision, bumping, derailment, avoided collision of railway vehicles
19.	Failure of signalling-interlocking and telecommunication devices
20.	Extension of the foreseen closure (more than 30 min)

	Primary train delay causes (railway undertaking)
No	Name
1.	Increased passenger frequency
2.	Waiting for railway undertaking staff
3.	Waiting for locomotive or multiple-unit set
4.	Delay caused by the fault of an railway undertaking's employee
5.	Cleaning of wagon or multiple-unit set requested by the railway undertaking
6.	Brake test
7.	Failure of wagon, traction unit or multiple-unit set
8.	Wagon repair without de-coupling
9.	Decreased train speed due to failure of wagon/multiple-unit set/traction unit
10.	Change of composition requested by the railway undertaking
11.	Intervention of police officers, requested by train staff
13.	Waiting for shunting locomotive

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15.	Shift change of railway undertaking's employees
16.	Waiting for train forming
17.	Weighing
18.	Special consignment transport
20.	Stopping for cooling of brake shoes
21.	Delay caused by turnover of the multiple-unit set/traction unit of the same composition
22.	Accident on industrial siding of the transport client
23.	Breakdown of brake system air duct
24.	Train passing by the signal which indicates that the further running is forbidden
25.	Unallowed train passing through the service point where it had to stop

	Primary train delay causes (external influences)
No	Name
1.	State needs
2.	Train accepted with delay by another railway management
3.	Train rejected by another railway management
4.	Waiting for train staff of another railway management
5.	Train incorrectly formed by another railway management
6.	Taking a defective wagon of another railway management out of service
7.	Taking an incorrectly sent wagon of another railway management out of service
8.	Another railway management's employee being late
9.	Natural disasters (landslide, flood, current, snow-drift, avalanche, fire, fog)
10.	Falling out of train
11.	Jumping in or out of train
12.	Holding of the train by police officers
13.	Holding of the train by custom-inspection officers
14.	Emergency brake abuse
15.	Emergency service intervention
16.	Level-crossing device breaking
17.	Train rocking
18.	Theft of equipment or devices owned by the infrastructure



	Secondary train delay causes
No	Name
1.	Waiting for crossing
2.	Waiting for overtaking of a train
3.	Waiting for annunciation
4.	Waiting with the train which is in delay
5.	Extended stay in the station due to waiting for regular passing
6.	Waiting for locomotive or multiple-unit set from turnover
7.	Waiting for railway undertaking's staff from turnover
8.	Delay caused by failure of another train's traction unit
9.	Waiting for train connection (passenger or goods) of another railway management
10.	Abuse of emergency brake on another train
11.	Announced strike of IŽS or RU
12.	Another train accident



Appendix 8 Overview of platforms and arranged surfaces in service points

		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
MAIN LINES						
101. Belgrade - Stara Paz	zova - Šid - state border -	(Tovarnik)				
	next to 1st track	4+798,8-5+273,5	platform	474,70	0,35	5,60
	between 1st and 2nd track*	4+798,8-5+273,5	platform	474,70	0,35	4,00
	between 2nd and 3rd track	4+798,8-5+273,5	platform	474,70	0,35	10,60
NOVI BEOGRAD	between 3rd and 4th track*	4+798,8-5+273,5	platform	474,70	0,35	4,00
	between 4th and 5th track	4+798,8-5+273,5	platform	474,70	0,35	10,60
	next to 5th track	4+798,8-5+273,5	platform	474,70	0,35	5,60
	next to right track	7+067,5-7+175	platform	107,50	0,35	3,13
Tošin bunar	next to left track	7+060-7+170	platform	110,00	0,35	3,13
	next to 1st track	9+866,5-10+345	platform	478,50	0,40	6,00
	between 1st and 2nd track	9+952-10+345	platform	393,00	0,85	6,00
ZEMUN	between 3rd and 4th track	9+952-10+345	platform	393,00	0,85	6,00
	between 6th and 7th track	9+963,5-10+268	platform	304,00	0,85	6,00
	between 8th and 9th track	9+890-10+268	platform	378,00	0 0,85 6,0 0 0,40 1,6	6,00
	between 1st and 2nd track	13+779-13+998	platform	119,00	0,40	1,60
ZEMUNSKO POLJE	between 2nd and 3rd track	13+797-13+998	platform	201,00	0,40	1,60
	between 1st and 2nd track	20+510-20+768	platform	258,00	0,40 1 0,35 1	1,90
	between 2nd and 3rd track	20+543-20+722,5	platform	179,50	0,35	1,90
BATAJNICA	between 3rd and 4th track	20+598-20+722,5	platform	124,50	0,35	1,60
	between 4th and 5th track	20+598-20+772,5	platform	124,50	0,35	1,60
	next to 1st track	27+014,69-27+124,69	platform	110,00	0,35	3,00
NOVA PAZOVA	between 2nd and 3rd track	27+030-27+280	platform	250,00	0,35	1,60
	between 4th and 5th track	27+030-27+280	platform	250,00	0,55	7,91
	next to 1st track	35+003-35+223	platform	220,00	0,55	3,00
STARA PAZOVA	between 2nd and 3rd track	35+015-35+265	platform	250,00	0,55	3,76
	between 5th and 6th track	35+015-35+265	platform	250,00	0,55	6,16
COLUDINA	between 2nd and 3rd track	45+767-45+914	platform	147,00	0,35	1,60
GOLUBINCI	between 3rd and 4th track	45+767-45+914	platform	147,00	0,35	1,60
DUTING	between 2nd and 3rd track	53+611,93-53+691,91	platform	79,98	0,35	1,60
PUTINCI	between 3rd and 4th track	53+682-53+747	platform	79,98	0,35	1,60
V1::	next to right track	59+982-60+062	platform	80,00	0,55	4,00
Kraljevci	next to left track	59+985-60+065	platform	80,00	0,55	4,00
	between 2nd and 3rd track	64+733-64+973	platform	240,00	0,35	1,60
RUMA	between 3rd and 4th track	64+733-64+973	platform	240,00	0,35	1,60
	between 4th and 5th track	64+821-64+937	platform	116,00	0,35	1,60



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
NOCANI	between 2nd and 3rd track	73+368-73+518	Arranged surface	150,00	0,00	2,00
VOGANJ	between 3rd and 4th track	73+368-73+518	Arranged surface	150,00	0,00	2,00
SREMSKA MITROVICA	between 2nd and 3rd track	81+563-81+763	platform	200,00	0,35	1,60
SREMSKA MITROVICA	between 3rd and 4th track	81+563-81+763	platform	200,00	0,35	1,60
Laćarak	Between right and left track	86+109-86+159	platform	50,00	0,35	1,60
MARTINCI	between 2nd and 3rd track	94+059-94+159	platform	100,00	0,35	1,60
WARTING	between 3rd and 4th track	94+131-94+141	platform	10,00	0,35	1,60
Kuzmin	NONE					
KUKUJEVCI-ERDEVIK	between 2nd and 3rd track	104+935-105+985	platform	50,00	0,45	1,60
KUKUJE V CI-EKDE V IK	between 3rd and 4th track	104+990-105+040	platform	50,00	0,45	1,60
Bačinci	next to right track	109+070-109+097	platform	27,00	0,35	1,60
Gibarac	NONE					,
	between 1st and 2nd track	116+300-116+490	Arranged surface	190,00	0,10	1,60
ŠID	between 2nd and 3rd track	116+300-116+665	platform	365,00	0,45	1,60
	between 3rd and 4th track	116+300-116+677	platform	377,00	0,45	1,60
102. Belgrade - Mladen	ovac - Lapovo - Niš - Preš	evo - state border	- (Tabanovce)			
	next to 1st track (left)	4+978-5+218,50	platform	240,50	0,30	1,30
TOPČIDER	next to 3rd track (left)	4+960-5+234	platform	274,00	0,45	1,60
	between 3rd and 4th track	4+950-253,70	platform	303,7,00	0,45	1,60
	next to 2nd track on the right	8+460-8+786	platform	326,00	0,45 00 0,45 0 0,55	6,10
RAKOVICA	between 3rd and 4th track	8+637-8+868	platform	231,00	0,55	6,10
	between 5th and 6th track	8+545-8+865	platform	320,00	0,55	6,20
	next to right track	10+645-10+758	platform	113,00	0,55	1,55
Kneževac	next to left track	10+645-10+758	platform	113,00	0,55	1,55
	next to right track	11+626-11+731	platform	105,00	0,55	1,55
Kijevo	next to left track	11+713-11+819	platform	106,00	0,55	1,55
	next to 1st track	14+080-14+240	Arranged surface	160,00	0,55	4,00
RESNIK	between 1st and 2nd track	14+080-14+240	platform	160,00	0,35	1,55
	between 3rd and 4th track	13+943-14+238	platform	295,00	0,55	6,20
PINOSAVA	NONE	10.7.0 1200	Pauloini	2>0,00	0,00	0,20
Ripanj Kolonija	next to the line on the left	20+080-20+180	platform	100,00	0,35	1,00
	between 1st and 2nd track	21+324,00-21+356,40	platform	32,40	0,35	1,00
RIPANJ	between 2nd and 3rd track	21+265,70-21+361,20	platform	95,50	0,35	1,55
IXII ANIJ	between 2rd and 4rd track	21+265,70-21+361,20		-		
			platform	95,50	0,35	1,55
KLENJE	between 1st and 2nd track	24+743,40-24+804,00	platform	60,60	0,35	1,00
DIDANI MENDER	between 2nd and 3rd track	24+743,40-24+804,00	platform	60,60	0,35	1,00
RIPANJ TUNNEL	between 1st and 2nd track	29+565-29+615	platform	50,00	0,40	1,60



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
DATA	between 1st and 2nd track	34+695-34+774	platform	79,00	0,40	1,60
RALJA	between 2nd and 3rd track	34+695-34+774	platform	79,00	0,40	1,60
SOPOT KOSMAJSKI	between 2nd and 3rd track	41+454-41+544	platform	90,00	0,40	1,60
VLAŠKO POLJE	between 3rd and 4th track	47+684-47+784	platform	100,00	0,40	1,60
MLADENOVAC	between 2nd and 3rd track	53+052-53+189	platform	187,00	0,40	1,60
WOWA ŠTILL C	between 1st and 2nd track	59+954-60+109	platform	155,00	0,40	1,60
KOVAČEVAC	between 2nd and 3rd track	59+907-60+056	platform	149,00	0,40	1,60
Rabrovac	next to the line on the left	62+909-63+045	platform	136,00	0,40	1,60
	between 1st and 2nd track	67+497-67+650	platform	153,00	0,40	1,60
KUSADAK	between 2nd and 3rd track	67+453-67+600	platform	147,00	0,40	1,60
Ratare	next to the line on the left	70+821-70+931	platform	110,00	0,40	1,60
	between 1st and 2nd track	73+941-74+041	platform	100,00	0,50	1,50
GLIBOVAC	between 2nd and 3rd track	73+978-74+078	platform	100,00	0,50	1,50
	between 1st and 2nd track	78+476-78+586	platform	110,00	0,50	1,50
PALANKA	between 2nd and 3rd track	78+476-78+586	platform	110,00	0,50	1,50
	between 3rd and 4th track	78+476-78+586	platform	110,00	0,50	1,50
MALA PLANA	between 2nd and 3rd track	85+505-85+605	platform	100,00	0,50	1,50
	between 1st and 2nd track	90+350-90+400	platform	50,00	0,40	1,60
	between 2nd and 3rd track	90+289-90+430	platform	141,00	0,40	1,60
VELIKA PLANA	between 3rd and 4th track	90+370-90+510	platform	140,00	0,40	1,60
	between 4th and 5th track	90+360-90+464	platform	104,00	0,40	1,60
	next to right track	94+008-94+055	platform	47,00	0,40	1,60
Staro Selo	next to left track	94+008-94+055	platform	47,00	0,40	1,60
	next to right track	97+660-97+706	platform	46,00	0,40	1,60
Novo Selo	next to left track	97+660-97+706	platform	46,00	0,40	1,60
	between 2nd and 3rd track	100+400-100+450	platform	50,00	0,40	1,60
MARKOVAC	between 3rd and 4th track	100+350-100+452	platform	102,00	0,40	1,60
WARROVAC	between 4th and 5th track	100+350-100+448	platform	98,00	0,40	1,60
			•	,	-	
Lapovo Varoš	next to right track	106+250-106+310	platform	60,00	0,35	1,60
	next to left track	106+250-106+310	platform	60,00	0,35	1,60
Lapovo marshalling yard	next to right track	108+350-108+400	platform	50,00	0,35	1,60
	next to left track between 2nd and 3rd track	108+340-108+390 109+560-109+680	platform	50,00	0,35	1,60
LADOVO			platform	120,00	0,35	1,60
LAPOVO	between 3rd and 4th track	109+560-109+680	platform	120,00	0,35	1,60
	next to 1st track	109+460-109+510	platform	50,00	0,35	1,60
Brzan	next to right track	114+140-114+190	platform	50,00	0,35	1,60
Miloževe	next to left track	114+140-112+190	platform	50,00	0,35	1,60
Miloševo	next to right track	116+940-119+990	platform	50,00	0,35	1,60



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
	next to left track	119+940-119+990	platform	50,00	0,35	1,60
	between 2nd and 3rd track	120+229-120+330	platform	101,00	0,35	1,60
BAGRDAN	between 3rd and 4th track	120+268-120+390	platform	122,00	0,35	1,60
	next to right track	126+920-126+970	platform	50,00	0,35	1,60
Lanište	next to left track	126+920-126+970	platform	50,00	0,35	1,60
	next to right track	131+329-131+379	platform	50,00	0,35	1,60
Bukovče	next to left track	131+329-131+379	platform	50,00	0,35	1,60
	between 2nd and 3rd track	135+122-135+364	platform	242,00	0,20	1,90
JAGODINA	between 3rd and 4th track	135+182-135+416	platform	234,00	0,20	1,90
	between 1st and 2nd track	135+192-135+342	platform	150,00	0,20	1,90
	next to right track	140+550-140+670	platform	120,00	0,35	3,00
Gilje	next to left track	140+550-140+670	platform	120,00	0,35	3,00
·	between 1st and 2nd track	0+516-0+641	platform	125,00	0,20	1,60
ĆUPRIJA	between 2nd and 3rd track	0+516-0+641	platform	115,00	0,30	1,60
PARAĆIN	between 3rd and 4th track	155+081-155+184	platform	103,00	0,36	1,60
	between 4th and 5th track	155+065-155+166	platform	101,00	0,20	1,90
	next to right track	163+560-163+610	platform	50,00	0,35 0,35 0,20 0,30 0,36 0,20 0,35 0,35 0,35 0,35 0,35 0,35 0,35 0,3	1,60
Sikirica - Ratari	next to left track	163+565-163+615	platform	50,00	0,35	1,60
_	next to right track	166+605-166+655	platform	50,00 0,35 242,00 0,20 234,00 0,20 150,00 0,20 120,00 0,35 125,00 0,20 115,00 0,30 103,00 0,36 101,00 0,20 50,00 0,35 50,00 0,35 50,00 0,35 90,00 0,35 90,00 0,35 49,00 0,35 203,00 0,28 108,00 0,28	1,60	
Drenovac	next to left track	166+605-166+655	platform	50,00	0,35	1,60
hr have a	between 2nd and 3rd track	171+550-171+640	platform	90,00	0,35	1,60
ĆIĆEVAC	between 3rd and 4th track	171+550-171+640	platform	90,00	0,35	1,60
	next to right track	173+625-173+674	platform	49,00	0,35	1,60
Lučina	next to left track	173+625-173+674	platform	49,00	0,35	1,60
	between 2nd and 3rd track	176+222-176+425	platform	203,00	0,28	6,40
STALAĆ	between 4th and 5th track	176+222-176+425	platform	203,00	0,28	1,60
	between 6th and 7th track	176+270-176+378	platform	108,00	0,28	5,30
STEVANAC	NONE			I	I	
	between 2nd and 3rd track	186+443-186+563	platform	120,00	0,35	1,60
BRALJINA	between 3rd and 4th track	186+443-186+563	platform	120,00	0,35	1,60
Cerovo Ražanj	next to the line on the left	190+320-190+370	platform	50,00	0,35	1,60
STARO TRUBAREVO	between 1st and 2nd track	192+150-192+220	platform	70,00	0,35	1,60
DUNIC	between 2nd and 3rd track	194+882-195+003	platform	121,00	0,35	1,60
ĐUNIS	between 3rd and 4th track	194+882-195+003	platform	121,00	0,35	1,60
Vialence -	next to right track	199+160-199+210	platform	50,00	0,35	1,60
Vitkovac	next to left track	199+160-199+210	platform	50,00	0,35	1,60
Danii Linkov	next to right track	201+175-201+225	platform	50,00	0,35	1,60
Donji Ljubeš	next to left track	201+175-201+225	platform	50,00	0,35	1,60



		km position of	Platform/	Dimensions		
Service point	Location	I and the end of I'	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
C "T' 1 Y	next to right track	203+560-203+610	platform	50,00	0,35	1,60
Gornji Ljubeš	next to left track	203+560-203+610	platform	50,00	0,35	1,60
KODMAN	between 2nd and 3rd track	205+565-205+675	platform	110,00	0,35	1,60
KORMAN	between 3rd and 4th track	205+545-205+665	platform	120,00	0,35	1,60
m · ·	next to right track	208+087-208+186	platform	99,00	0,35	1,60
Trnjani	next to left track	208+087-208+186	platform	99,00	0,35	1,60
	between 1st and 2nd track	210+432-210+521	platform	89,00	0,35	1,60
ADROVAC	between 2nd and 3rd track	210+440-210+562	platform	122,00	0,35	1,60
	next to 1st track	210+445-210+530	platform	85,00	0,28	5,00
A L EWGDA A	between 2nd and 3rd track	214+067-214+277	platform	210,00	th Height (m) 6 0,35 0,40	1,60
ALEKSINAC	between 3rd and 4th track	214+067-214+277	platform	210,00	0,35	1,60
N	next to right track	217+400-217+500	platform	100,00	0,35	1,60
Nozrina	next to left track	217+400-217+500	platform	100,00	0,35	1,60
T V	next to right track	218+705-218+790	platform	85,00	0,35	1,60
Lužane	next to left track	218+708-218+785	platform	77,00	0,35	1,60
m ×.	next to right track	222+062-222+164	platform	102,00	0,35	1,60
Tešica	next to left track	222+062-222+164	platform	102,00	0,35	1,60
CDELLĂ	between 2nd and 3rd track	224+656-224+758	platform	102,00 0,35 102,00 0,35 52,00 0,35	1,60	
GREJAČ	between 3rd and 4th track	224+656-224+708	platform	52,00	0,35	1,60
G VI.34	next to right track	228+087-228+155	platform	68,00	0,35	1,60
Supovački Most	next to left track	228+091-228+159	platform	68,00	0,35	1,60
).	next to right track	229+306-229+416	platform	110,00	0,35	1,60
Mezgraja	next to left track	229+306-229+416	platform	110,00	0,35	1,60
37.4**	next to right track	232+544-232+631	platform	87,00	0,35	1,60
Vrtište	next to left track	232+544-232+631	platform	87,00	0,35	1,60
TRUBALE	between 2nd and 3rd track	234+893-234+994	platform	101,00	0,40	1,60
TRUPALE	between 4th and 5th track	234+893-234+994	platform	101,00	0,40	1,60
CRVENI KRST	between 2nd and 3rd track	240+842-240+994	platform	152,00	0,40	1,60
	next to 1st track	243+410-243+763	platform	353,00	0,40	5,80
	between 2nd and 3rd track	243+410-243+813	platform	403,00	0,40	8,00
NIŠ	between 4th and 5th track	243+410-243+771	platform	361,00	0,40	8,00
	between 1b and 1st track	243+643-243+763	platform	120,00	0,40	5,80
	next to 1a track	243+660-243+763	platform	103,00	0,40	1,60
MEĐUROVO	NONE	•	•	•		•
BELOTINCE	between 1st and 2nd track	253+906-253+987	platform	81,00	0,40	1,60
Čapljinac	next to the line on the left	255+443-255+493	platform	50,00	0,40	1,60
Malošište	next to the line on the left	257+890-257+940	platform	50,00	0,40	1,60
DOLJEVAC	between 1st and 2nd track	261+419-261+527	platform	108,00	0,40	1,60



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
	between 2nd and 3rd track	261+419-261+526	platform	107,00	0,40	1,60
	next to the line on the right	263+218-263+263	platform	45,00	0,40	1,10
Kočane	next to the line on the right	263+274-263+287	platform	13,00	0,40	1,10
D.1	next to the line on the right	265+833-265+862	platform	29,00	0,40	1,60
Pukovac	next to the line on the right	265+870-265+897	platform	27,00	0,40	1,60
BRESTOVAC	between 2nd and 3rd track	267+906-267+971	platform	65,00	0,40	1,60
Ţ	next to the line on the left	270+819-270+844	platform	25,00	0,40	1,10
Lipovica	next to the line on the left	270+850-270+887	platform	37,00	0,40	1,10
PEČENJEVCE	between 2nd and 3rd track	275+522-275+596	platform	74,00	0,40	1,60
Živkovo	next to the line on the right	278+820-278+865	platform	45,00	0,40	1,10
Priboj Leskovački	next to the line on the right	280+440-280+480	platform	40,00	0,40	1,00
VINARCI	NONE			1		
I EGNOVA C	between 1st and 2nd track	287+460-287+679	platform	219,00	0,40	1,60
LESKOVAC	between 2nd and 3rd track	287+507-287+630	platform	123,00	0,40	1,60
ĐORĐEVO	NONE	•				
CDDELICA	between 2nd and 3rd track	301+841-301+886	platform	45,00	0,40	1,60
GRDELICA	between 3rd and 4th track	301+841-301+886	platform	45,00	0,40	1,60
Palojska Rosulja	next to the line on the left	308+614-308+629	platform	15,00	0,40	1,60
PREDEJANE	between 1st and 2nd track	312+675-312+750	platform	75,00	0,40	1,60
DŽEP	between 2nd and 3rd track	319+629-319+710	platform	81,00	0,40	1,60
MOMIN KAMEN	next to the line on the left	322+900-322+930	platform	30,00	0,40	1,60
Šelince	NONE	•				
VLADIČIN HAN	between 1st and 2nd track	329+472-329+676	platform	204,00	0,40	1,60
SUVA MORAVA	next to 1st track	334+043-334+095	platform	52,00	0,40	1,60
Lepenički most	NONE					
Stubal	NONE					
PRIBOJ VRANJSKI	NONE					
VRANJSKA BANJA	between 1st and 2nd track	347+958-348-080	platform	122,00	0,40	1,60
VRANJE	between 1st and 2nd track	354+080-354+260	platform	180,00	0,40	1,60
VKANJE	between 2nd and 3rd track	354+125-354+242	platform	117,00	0,40	1,60
Neradovac	NONE					
RISTOVAC	between 1st and 2nd track	365+666-365+768	platform	102,00	0,40	1,60
NISTOVAC	between 2nd and 3rd track	365+666-365+768	platform	102,00	0,40	1,60
BUJANOVAC	between 1st and 2nd track	373+665-373+720	platform	55,00	0,40	1,60
Letovica	NONE					
BUKAREVAC	NONE					
PREŠEVO	between 1st and 2nd track	392+256-392+357	platform	101,00	0,40	1,60
103. (Belgrade) - Rak	ovica - Jajinci - Mala Krsna	- Velika Plana				

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		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
	next to 2nd track on the right	8+460-8+786	platform	326,00	0,55	6,10
RAKOVICA	between 3rd and 4th track	8+637-8+868	platform	231,00	0,55	6,10
	between 5th and 6th track	8+545-8+865	platform	320,00	0,55	6,20
JAJINCE	NONE			1	•	•
DELI DOTOV	between 2nd and 3rd track	16+240-16+337	platform	97,00	0,40	1,60
BELI POTOK	between 3rd and 4th track	16+240-16+351	platform	111,00	0,40	1,60
Zuce staj.	next to the line on the right	20+305-20+363	platform	58,00	0,40	1,60
ZUCE	between 1st and 2nd track	21+180-21+287	platform	107,00	0,40	1,60
VRČIN	between 1st and 2nd track	24+824-24+932	platform	108,00	0,40	1,60
VRCIN	between 2nd and 3rd track	24+824-24+934	platform	110,00	0,40	1,60
Kasapovac	next to the line on the left	27+840-27+938	platform	98,00	0,40	1,60
LIPE	between 1st and 2nd track	31+208-31+316	platform	108,00	0,40	1,60
MALA BIANĞA	next to 1st track	36+858-36+925	platform	67,00	0,40	1,60
MALA IVANČA	between 1st and 2nd track	36+863-36+925	platform	62,00	0,40	1,60
Brestovi	next to the line on the left	39+208-39+305	platform	97,00	0,40	1,60
NALL BOŽI BEVI G	between 1st and 2nd track	41+250-41+356	platform	106,00	0,40	1,60
MALI POŽAREVAC	between 2nd and 3rd track	41+250-41+358	platform	108,00	0,40	1,60
Dražanj-Šepšin	next to the line on the right	43+114-43+219	platform	105,00	0,40	1,60
UMČARI	between 1st and 2nd track	47+730-47+839	platform	109,00	0,40	1,60
UMCARI	between 2nd and 3rd track	47+730-47+837	platform	107,00	0,40	1,60
Živkovac	next to the line on the left	52+290-52+340	platform	50,00	0,40	1,60
VODANJ	between 2nd and 3rd track	55+130-55+229	platform	99,00	0,40	1,60
KOLARI	between 1st and 2nd track	60+558-60+656	platform	98,00	0,40	1,60
Ralja Smederevska	next to the line on the left	66+573-66+605	platform	32,00	0,40	1,60
	between 1st and 2nd track	69+030-69+175	platform	145,00	0,40	1,90
MALA IZDONIA	between 2nd and 3rd track	69+030-69+175	platform	145,00	0,40	1,90
MALA KRSNA	between 3rd and 4th track	69+042-69+184	platform	142,00	0,40	1,90
	between 4th and 5th track	69+080-69+230	platform	150,00	0,40	1,90
Skobalj	next to the line on the left	71+981-72+015	platform	34,00	0,40	1,60
Osipaonica staj.	next to the line on the left	74+749-74+784	platform	35,00	0,40	1,60
OSIDAONICA	between 1st and 2nd track	76+168-76+231	platform	63,00	0,40	1,60
OSIPAONICA	between 2nd and 3rd track	76+177-76+229	platform	52,00	0,40	1,60
Lugavčina	next to the line on the right	77+867-77+904	platform	37,00	0,40	1,30
Saraorci	NONE					
LOZOVIK-SARAORCI	between 2nd and 3rd track	82+710-82+812	platform	102,00	0,40	1,60
Miloševac	next to the line on the left	85+500-85+602	platform	50,00	0,40	1,60
KRNJEVO-TRNOVČE	between 2nd and 3rd track	90+248-90+348	platform	100,00	0,40	1,60



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
VELIKO ORAŠJE	between the plateau in front of the station and 2nd track	94+626,5-94+658,5	platform	32,00	0,40	1,60
	between 2nd and 3rd track	94+586,5-94+689,5	platform	100,00	0,40	1,60
	between 1st and 2nd track	90+350-90+400	platform	50,00	0,40	1,60
VELIKA PLANA	between 2nd and 3rd track	90+289-90+430	platform	141,00	0,40	1,60
VELIKA PLANA	between 3rd and 4th track	90+370-90+510	platform	140,00	0,40	1,60
	between 4th and 5th track	90+360-90+464	platform	104,00	0,40	1,60
104. (Belgrade) - Stara Pa	zova - Novi Sad - Subot	ica - state border	- (Kelebia)	il.		
	next to 1st track	35+003,51-35+223,51	platform	220,00	0,55	3,00
STARA PAZOVA	between 2nd and 3rd track	35+014,23- 35+264,23	platform	250,00	0,55	3,76
	between 5th and 6th track	35+014,23- 35+264,23	platform	250,00	0,55	6,16
INIDITA	between 1st and 2nd track	42+840-42+970	platform	130,00	0,40	1,60
INĐIJA	between 2nd and 3rd track	42+783-42+928	platform	145,00	0,40	1,60
INĐIJA PUSTARA	NONE					
BEŠKA	between 1st and 2nd track	52+864-53+042	platform	178,00	0,40	1,60
DESKA	between 2nd and 3rd track	52+864-53+042	platform	178,00	0,40	1,60
ČORTANOVCI	next to 1st track	56+520-56+557	platform	37,00	0,30	7,00
Čortanovci Dunav	NONE					
	next to 1st track	62+338-62+365	platform	27,00	0,25	7,00
KARLOVAČKI VINOGRADI	next to 1st track	62+365-62+449	platform	84,00	0,40	1,60
	between 1st and 2nd track	62+338-62+449	platform	111,00	0,40	1,60
SREMSKI KARLOVCI	between 1st and 2nd track	66+501-66+698	platform	197,00	0,40	1,60
SKEWISKI KAKLOVCI	between 2nd and 3rd track	66+501-66+700	platform	199,00	0,40	1,60
PETROVARADIN	between 2nd and 3rd track	71+834-71+986	platform	152,00	0,40	1,60
FEIROVARADIN	between 3rd and 4th track	71+822-71+991	platform	169,00	0,40	2,80
	next to 11th track	77+836-77+950	platform	114,00	0,40	3,00
	between 11th and 10th track	77+822-77+950	platform	128,00	0,40	3,72
	between 10th and 1st track	77+835-77+887	platform	52,00	0,40	4,20
NOVI SAD	next to 1st track	77+835-78+250	platform	415,00	0,40	4,20-8,90
	between 2nd and 4th track	77+843-78+181	platform	338,00	0,40	8,75
	between 12th and 1st track	78+104-78+250	platform	146,00	0,40	8,90
	between 14th and 13th track	78+104-78+249	platform	145,00	0,40	6,46
SAJLOVO	NONE					
KISAČ	between 1st and 2nd track	91+349-91+414	platform	65,00	0,33	1,40
Stepanovićevo	next to the line on the right	98+040-98+080	platform	40,00	0,35	1,60
ZMAJEVO	between 2nd and 3rd track	103+505-103+570	platform	65,00	0,34	1,40



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
VRBAS	between 2nd and 3rd track	116+702- 116+770,30	platform	68,00	0,35	1,40
VKDAS	between 3rd and 4th track	116+702- 116+770,30	platform	68,00	0,35	1,40
LOVĆENAC	between 2nd and 3rd track	128+098-128+158	platform	60,00	0,19	1,90
Mali Iđoš	NONE					
MALI IĐOŠ POLJE	NONE	_			_	
BAČKA TOPOLA	between 1st and 2nd track	144+096-144+248	platform	152,00	0,15/0,40	1,60
BACKA TOPOLA	between 2nd and 3rd track	144+093-144+241	platform	148,00	0,25	1,60
Mali Belgrade	NONE					
ŽEDNIK	between 2nd and 3rd track	157+792-157+862	platform	70,00	0,20	1,90
Verušić	next to to the line on the left	162+950-162+985	platform	35,00	0,30	1,60
NAUMOVIĆEVO	between 1st and 2nd track	166+144-166+214	platform	70,00	0,30	1,60
Aleksandrovo predgrađe	next to to the line on the right	171+938-171+983	arranged surface	45,00	0,05	0,60
	between 1st and 2nd track	176+360-176+414	arranged surface	54,00	0,05	1,70
	between 1st and 2nd track	176+414-176+487	platform	73,00	0,25	1,60
SUBOTICA	between 1st and 2nd track	176+487-176+838	arranged surface	351,00	0,05	1,70
	between 2nd and 3rd track	176+322-176+838	arranged surface	516,00	0,05	1,70
	between 3rd and 4th track	176+335-176+573	arranged surface	238,00	0,05	1,70
105. Niš - Dimitrovgrad	d - state border - (Dragoma	nn)				
	next to 1st track	243+410-243+763	platform	353,00	0,40	5,80
	between 2nd and 3rd track	243+410-243+813	platform	403,00	0,40	8,00
NIŠ	between 4th and 5th track	243+410-243+771	platform	361,00	0,40	8,00
	between 1b and 1st track	243+643-243+763	platform	120,00	0,40	5,80
NIŠ	next to 1a track	243+660-243+763	platform	103,00	0,40	1,60
- · · · · ·	next to to the line on the left	1+669-1+769	platform	100,00	0,40	1,60
Palilulska rampa	next to to the line on the left	1+809-1+875	platform	66,00	0,40	1,60
Vojna Bolnica	NONE	l	I	l .		
ĆELE KULA	between 2nd and 3rd track	5+422-5+502	platform	80,00	0,40	1,60
EI Niš	NONE	1	l	l .		
NIŠKA BANJA	between 2nd and 3rd track	10+450-10+558	platform	108,00	0,40	1,60
D 1	next to to the line on the right	14+712-14+731	platform	19,00	0,40	1,60
Prosek	next to to the line on the right	14+740-14+770	platform	30,00	0,40	1,60
SIĆEVO	NONE	ı	1			
OSTROVICA	between 1st and 2nd track	22+475-22+529	platform	54,00	0,40	1,60
Majdan Ostrovica	NONE	ı	1			
Radov Dol	next to to the line on the left	29+494-29+520	platform	26,00	0,40	1,60
DOLAC	between 2nd and 3rd track	31+640-31+739	platform	79,00	0,40	1,60



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
Crveni Breg	next to to the line on the left	34+262-34+292	platform	30,00	0,40	1,60
CRVENA REKA	between 2nd and 3rd track	36+393-36+451	platform	58,00	0,40	1,60
Belanovac	next to to the line on the left	39+691-39+761	platform	70,00	0,40	1,60
BELA PALANKA	between 2nd and 3rd track	44+907-44+977	platform	70,00	0,40	1,60
Crkvica	NONE	l	I			
ČIFLIK	NONE					
Sinjac	NONE					
Đurđevo Polje	NONE					
Crvenčevo	NONE					
STANIČENJE	NONE					
Sopot	NONE					
	between 1st and 2nd track	72+901-72+989	platform	87,00	0,40	1,60
PIROT	between 2nd and 3rd track	72+868-73+021	platform	153,00	0,40	1,60
Božurat	NONE	,	1	•	•	•
Veliki Jovanovac	NONE					
SUKOVO	NONE					
Činiglavci	NONE					
Srećkovac	NONE					
	next to 14th track	97+126-97+267	platform	141,00	0,40	1,60
DIMITROVGRAD	between 1st and 2nd track	97+316-97+717	platform	401,00	0,40	1,60
106. Belgrade Centar -	Pančevo Main Station - Vi	šac - state borde	r - (Stamora M	(oravita)		· ·
	next to 3rd track	0+120-0+00-0+300	platform	420,00	0,55	10,00
	between 4th and 5th track	0+155-0+00-0+300	platform	455,00	0,55	10,00
BELGRADE CENTAR	between 6th and 7th track	0+155-0+00-0+300	platform	455,00	0,55	10,00
	between 8th and 9th track	0+120-0+00-0+300	platform	420,00	0,55	10,00
	next to 10th track	0+120-0+00-0+300	platform	420,00	0,55	10,00
V tt	between tracks (next to the left track towards Banat)	1+123-1+215	platform	92,00	0,55	7,00
Karađorđev park	between tracks (next to the right track towards Banat)	1+123-1+215	platform	92,00	0,55	7,00
	between tracks	2+754,13-2+829,13	platform	75,00	0,95	18,60
	between tracks (next to the right track towards Banat)	2+785,52-2+860,52	platform	65,00	0,95	3,50
Vukov spomenik	between tracks (next to the right track towards Banat)	2+925,52-3+010,52	platform	85,00	0,95	3,50
	between tracks (next to the left track towards Banat)	2+689,13-2+754,13	platform	65,00	0,95	3,50
	between tracks (next to the left track towards Banat)	2+829,13-2+914,13	platform	85,00	0,95	3,50
PANČEVAČKI MOST	next to 2nd track	4+694-4+845	platform	151,00	0,90	4,94



		km position of	Platform/	Dimensi	ons	
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
	next to 1st track	4+590-4+741	platform	151,00	0,90	4,94
	next to the line on the right	10+500-10+600	platform	100,00	0,40	1,60
Krnjača most	between left and right track	7+003,5-7+223,5	platform	220,00	0,60	7,00
KRNJAČA	next to 4th track	8+165,06-8+385,06	platform	220,00	0,55	3,00
KRNJACA	next to 1st track	8+182,24-8+402,24	platform	220,00	0,55	3,00
Sebeš	next to the line on the left	9+975,05-10+085,05	platform	100,00	0,60	3,10
	next to the line on the right	9+975,05-10+085,05	platform	100,00	0,60	3,10
OVČA	next to 1st track	12+537,6-12+757,6	platform	220,00	0,55	4,00
OVCA	between 4th and 5th track	12+537,6-12+757,6	platform	220,00	0,55	6,10
	between 1st and 2nd track	15+913-16+033	platform	120,00	0,40	1,60
DANČENO MADI CTATION	between 1st and 2nd track	16+090-16+210	platform	120,00	0,40	1,60
PANČEVO MAIN STATION	between 2nd and 3rd track	15+913-16+210	platform	297,00	0,40	1,60
	between 3rd and 4th track	15+987-16+137	platform	150,00	0,40	1,60
	between 1st and 2nd track	18+105-18+345	platform	240,00	0,40	1,60
PANČEVO VAROŠ	next to 1st track	18+131-18+223	station plateau	92,00	0,40	1,60
	between 2nd and 3rd track	18+100-18+364	platform	264,00	0,40	1,60
BANATSKO NOVO SELO	between 2nd and 3rd track	33+981-34+035	arranged surface	54,00	0,30	0,50
VLADIMIROVAC	between 1st and 2nd track	45+806-45+906	arranged surface	100,00	0,00	1,30
VLADIMIROVAC	between 2nd and 3rd track	45+806-45+906	arranged surface	100,00	0,00	1,30
A LIDLINIA D	between 1st and 2nd track	53+503-53+603	arranged surface	100,00	0,00	1,30
ALIBUNAR	between 2nd and 3rd track	53+503-53+603	arranged surface	100,00	0,00	1,30
BANATSKI KARLOVAC	between 2nd and 3rd track					
Nikolinci	NONE					
ULJMA	between 2nd and 3rd track					
Vlajkovac	NONE					
VRŠAC	between 1st and 2nd track	82+807,5-82+902,5	platform	95,00	0,40	1,60
VKSAC	between 2nd and 3rd track	82+807,5-82+902,5	platform	95,00	0,40	1,60
107. (Belgrade) - Resnik -	Požega - Vrbnica - state	e border - (Bijelo	Polje)			
	next to 1st track	14+080-14+240	arranged surface	160,00	0,55	4,00
RESNIK	between 1st and 2nd track	14+080-14+240	platform	160,00	0,35	1,55
	between 3rd and 4th track	13+943-14+238	platform	295,00	0,55	6,20
BELA REKA	between 1st and 2nd track	7+538-7+648	platform	110,00	0,35	1,60
Nenadovac	next to the line on the left	12+077-12+127	platform	50,00	0,35	1,60
BARAJEVO	between 2nd and 3rd track	15+654-15+764	platform	110,00	0,35	1,60
Barajevo Centar	next to the line on the left	17+895-18+003	platform	108,00	0,35	1,60
VELIKI BORAK	between 1st and 2nd track	23+039-23+151	platform	112,00	0,35	1,60
Leskovac Kolubarski	next to the line on the right	27+720-27+770	platform	50,00	0,35	1,60
STEPOJEVAC	between 2nd and 3rd track	30+572-30+682	platform	110,00	0,35	1,60



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
AMEGGI	between 2nd and 3rd track	37+150-37+300	platform	150,00	0,35	1,60
VREOCI	between 3rd and 4th track	37+150-37+300	platform	150,00	0,35	1,60
LAZADEWAC	between 1st and 2nd track	45+311-45+462	platform	151,00	0,35	1,60
LAZAREVAC	between 2nd and 3rd track	45+311-45+462	platform	151,00	0,35	1,60
LAWOWAC	between 1st and 2nd track	52+547-52+697	platform	150,00	0,40	1,60
LAJKOVAC	between 2nd and 3rd track	52+527-52+697	platform	170,00	0,35	1,60
CLOVAC	between 1st and 2nd track	58+899-59+052	platform	153,00	0,35	1,60
SLOVAC	between 2nd and 3rd track	58+899-59+052	platform	153,00	0,35	1,60
Mlađevo	next to the line on the right	63+958-64+035	platform	77,00	0,35	1,60
DIVCI	between 1st and 2nd track	67+043-67+213	platform	170,00	0,35	1,60
DIVCI	between 2nd and 3rd track	67+043-67+213	platform	170,00	0,35	1,60
Lukavac Kolubarski	next to the line on the right	69+165-69+265	platform	100,00	0,35	1,60
Iverak	next to the line on the right	72+725-72+825	platform	100,00	0,35	1,60
VALIEVO	next to 1st track	77+550-77+851	platform	301,00	0,35	5,40
VALJEVO	between 2nd and 3rd track	77+562-77+863	platform	301,00	0,35	7,55
VALJEVSKI GRADAC	next to the line on the right	84+560-84+610	platform	50,00	0,35	1,60
Leskovice	next to the line on the left	91+605-91+655	platform	50,00	0,35	1,60
LASTRA	between 2nd and 3rd track	93+985-94+131	platform	146,00	0,35	1,60
SAMARI	between 2nd and 3rd track	103+118-103+168	platform	50,00	0,40	1,60
Drenovački Kik	next to the line on the right	107+700-107+750	platform	50,00	0,40	1,60
RAŽANA	between 3rd and 4th track	111+284-111+430	platform	146,00	0,35	1,60
Kocienić	between 3rd and 4th track	118+748-118+948	platform	200,00	0,40	1,60
KOSJERIĆ	between 4th and 5th track	118+748-118+948	platform	200,00	0,40	1,60
Tubići	next to the line on the left	123+446-123+496	platform	50,00	0,35	1,60
KALENIĆI	between 3rd and 4th track	129+772-129+918	platform	146,00	0,35	1,60
Otanj	next to the line on the right	133+600-133+710	platform	110,00	0,40	1,50
Glumač	next to the line on the right	135+807-135+863	platform	56,00	0,40	1,60
POŽEGA	next to 1st track	140+720-140+975	platform	255,00	0,45	10,00
POZEGA	between 2nd and 3rd track	140+675-140+984	platform	309,00	0,45	6,20
Rasna	next to the line on the right	145+618-145+650	platform	32,00	0,40	1,00
UZIĆI	between 1st and 2nd track	149+125-149+255	platform	130,00	0,40	1,60
UZICI	between 2nd and 3rd track	149+255-149+389	platform	134,00	0,40	1,60
Zlakusa	next to the line on the right	151+536-151+566	platform	30,00	0,40	1,60
Bukovička Rampa	next to the line on the right	154+141-154+161	platform	20,00	0,40	1,60
SEVOJNO	between 1st and 2nd track	156+882-157+082	platform	202,00	0,40	1,60
UŽICE FREIGHT	between 2nd and 3rd track	161+795-161+995	platform	200,00	0,40	1,60
OZICE TREIUITI	between 1st and 2nd track	161+813-161+953	platform	140,00	0,40	1,60
UŽICE	next to 1st track	163+645-163+900	platform	255,00	0,40	3,00



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
	between 2nd and 3rd track	163+626-163+881	platform	255,00	0,60	5,10
STAPARI	between 1st and 2nd track	170+590-170+710	platform	120,00	0,40	1,60
	next to the line on the left	173+412-173+425	platform	13,00	0,40	1,60
Ristanovića Polje	next to the line on the right	173+426-173+464	platform	38,00	0,40	1,60
Tripkova	next to the line on the right	176+045-176+095	platform	50,00	0,40	1,60
SUŠICA	between 2nd and 3rd track	178+251-178+371	platform	120,00	0,40	1,60
	next to 1st track	185+181-185+291	platform	110,00	0,40	5,50
BRANEŠCI	between 1st and 2nd track	185+181-185+291	platform	110,00	0,40	1,60
	between 2nd and 3rd track	185+181-185+291	platform	110,00	0,40	1,60
ZLATIBOR	between 2nd and 3rd track	193+234-193+404	platform	170,00	0,40	1,60
Ribnica Zlatiborska	next to the line on the left	200+350-200+400	platform	50,00	0,40	1,60
JABLANICA	between 3rd and 4th track	204+405-204+550	platform	145,00	0,40	1,60
Goleš	next to the line on the right	211+590-211+616	platform	26,00	0,40	1,00
ŠTRPCI	between 2nd and 3rd track	214-755-214-900	platform	145,00	0,40	1,60
Rača	next to the line on the right	219+515-219+536	platform	21,00	0,40	1,00
PD/D C/	between 2nd and 3rd track	225+227-225+490	platform	263,00	0,50	5,10
PRIBOJ	between 6th and 7th track	225+137-225+237	platform	100,00	0,50	3,00
Poljice	next to the line on the right	228+110-228+190	platform	80,00	0,40	1,60
Pribojska Banja	next to the line on the right	232+867-232+899	platform	32,00	0,40	1,00
BISTRICA NA LIMU	between 2nd and 3rd track	241+208-241+352	platform	144,00	0,40	1,60
Džurovo	next to the line on the right	246+300-246+328	platform	28,00	0,40	1,00
DRIFTON IE	next to 1st track	252+396-252+705	platform	309,00	0,40	4,60
PRIJEPOLJE	between 2nd and 3rd track	252+396-252+705	platform	309,00	0,40	7,00
DDIJEDOJ JE EDEJOJE	between 2nd and 3rd track	255+789-255+982	platform	187,00	0,35	1,60
PRIJEPOLJE FREIGHT	between 3rd and 4th track	255+789-255+982	platform	187,00	0,35	1,60
Velika Župa	next to the line on the right	259+605-259+624	platform	19,00	0,40	1,00
LUČICE	between 2nd and 3rd track	264+581-264+714	platform	133,00	0,35	1,60
BRODAREVO	between 2nd and 3rd track	273+255-273+404	platform	149,00	0,30	1,60
VRBNICA	between 1st and 2nd track	285+205-285+255	platform	50,00	0,30	1,60
VRBNICA	between 2nd and 3rd track	285+112-285+256	platform	144,00	0,30	1,60
108. Lapovo - Kraljevo -	Lešak - Kosovo Polje - Đ	eneral Janković	- state border -	(Volkovo)	
	between 2nd and 3rd track	109+560-109+680	platform	120,00	0,35	1,60
LAPOVO	between 3rd and 4th track	109+560-109+680	platform	120,00	0,35	1,60
	next to 1st track	109+460-109+510	platform	50,00	0,35	1,60
BATOČINA	between 1st and 2nd track	3+374,7-3+421,9	platform	47,20	0,12	1,30
Gradac	next to the line on the left	8+243,4-8+292,9	platform	49,50	0,30	1,05
BADNJEVAC	between 2nd and 3rd track	12+264,5-12+311,5	platform	47,00	0,14	1,80
Resnik Kragujevački	NONE					



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
Milatovac	next to the line on the right	18+206,9-18+253,7	platform	46,80	0,33	1,10
Cvetojevac	next to the line on the right	20+381-20+422,2	platform	41,20	0,25	1,20
JOVANOVAC	between 2nd and 3rd track	22+308-22+352	platform	44,00	0,22	1,75
	between 1st and 2nd track	28+726-28+918,7	platform	192,70	0,24	1,20
KRAGUJEVAC	between 2nd and 3rd track	28+752-28+907	platform	155,00	0,24	1,80
Zavod	next to the line on the right	31+280,5-31+288,25	platform	7,75	0,10	0,50
GROŠNICA	between 1st and 2nd track	34+062,8-34+104,3	platform	41,50	0,22	1,50
DRAGOBRAĆA	between 1st and 2nd track	39+529-39+565	platform	36,00	0,20	1,20
Vučkovica	next to the line on the right	44+513-44+538	platform	25,00	0,30	1,20
KNIĆ	between 1st and 2nd track	47+560-47+607	platform	47,00	0,30	1,40
GRUŽA	between 1st and 2nd track	53+458-53+505,5	platform	47,50	0,22	1,40
GUBEREVAC	between 1st and 2nd track	60+567-60+614	platform	47,00	0,20	1,55
Tomića Brdo	next to the line on the right	64+795-64+822,5	platform	27,50	0,35	1,00
VITKOVAC	between 1st and 2nd track	66+309-66+353	platform	44,00	0,25	1,25
Milavčići	next to the line on the left	70+141,8-70+172,8	platform	31,00	0,35	1,40
VITANOVAC	between 1st and 2nd track	73+904,3-73+948,7	platform	44,40	0,22	1,40
Šumarice	next to the line on the left	79+111-79+128,4	platform	17,40	0,25	0,50
Sirča	next to the line on the right	82+006-82+069	platform	63,00	0,35	1,90
	between 1st and 2nd track	84+649-84+733	platform	84,00	0,33	1,60
KRALJEVO	between 2nd and 3rd track	84+649-84+748	platform	99,00	0,33	1,60
MATARUŠKA BANJA	between 2nd and 3rd track	93+895-93+940	platform	45,00	0,20	1,80
Progorelica	next to the line on the left	97+352-97+386	platform	34,00	0,25	1,40
BOGUTOVAČKA BANJA	between 1st and 2nd track	100+868-100+919	platform	51,00	0,22	1,80
DOBRE STRANE	NONE					
POLUMIR	between 1st and 2nd track	118+291-118+344	platform	53,00	0,26	1,50
Pusto Polje	next to the line on the left	123+555-123+589	platform	34,00	0,25	1,00
UŠĆE	between 1st and 2nd track	127+223-127+281	platform	58,00	0,34	1,50
Lozno	next to the line on the right	132+832-132+866	platform	34,00	0,22	0,50
JOŠANIČKA BANJA	between 1st and 2nd track	136+102-136+152	platform	50,00	0,25	1,45
Piskanja	next to the line on the left	138+842-138+884	platform	42,00	0,21	1,00
BRVENIK	between 1st and 2nd track	143+481-143+528	platform	47,00	0,32	1,50
Rvati	next to the line on the left	148+258-148+304	platform	46,00	0,22	1,00
RAŠKA	between 1st and 2nd track	152+236-152+353	platform	117,00	0,32	1,80
Kaznovići	next to the line on the left	157+700-157+740	platform	40,00	0,23	1,00
RUDNICA	between 1st and 2nd track	161+970-162+022	platform	52,00	0,25	1,55
Donje Jarinje	NONE		l	.1	1	<u> </u>
Jerina	next to the line on the left	168+865-168+935	arranged surface	70,00	0,20	1,60
	between 1st and 2nd track	172+294-172+394	platform	100,00	0,35	1,60
LEŠAK	between 2nd and 3rd track	172+294-172+394	platform	100,00	0,35	1,60



		km position of	Platform/	Dimensi	ons	
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
Dren	NONE		ı			
LEPOSAVIĆ	between 1st and 2nd track	182+675-182+775	platform	100,00	0,35	1,60
Pridvorica	NONE		I		II.	
Sočanica	next to the line on the left	190+000-190+040	platform	40,00	0,35	1,00
IBARSKA SLATINA	NONE		I		II.	
Plandište	NONE					
BANJSKA	NONE					
Valač	between 1st and 2nd track	208+170-208+230	arranged surface	60,00	0,35	1,00
ZVEČAN	next to 1st track	210+900-211+000	platform	100,00	0,35	1,60
Kosovska Mitrovica North	next to the line on the left	213+390-213+440	platform	50,00	0,35	1,60
109. Subotica - Bogojevo	- state border - (Erdut)		l	ı	1	
BOGOJEVO	NONE					
SONTA	NONE					
PRIOR FILIA	between 1st and 2nd track	58+619-58+649	platform	30,00	0,30	1,55
PRIGREVICA	between 2nd and 3rd track	58+619-58+649	platform	30,00		1,57
BUKOVAČKI SALAŠI	NONE	1		ı	1	ı
	between 1st and 2nd track	73+417-73+477	platform	60,00	0,31	1,61
	between 1st and 2nd track	73+584-73+612	arranged surface	28,00	0,05	1,50
COMPOR	between 1st and 2nd track	73+673-73+823	arranged surface	150,00	0,05	1,50
SOMBOR	between 2nd and 3rd track	73+417-73+477	platform	60,00	0,38	1,61
	between 2nd and 3rd track	73+584-73+612	arranged surface	28,00	0,05	1,50
	between 3rd and 4th track	73+584-73+701	arranged surface	117,00	0,05	1,50
SVETOZAR MILETIĆ	between 2nd and 3rd track	83+340-83+397	platform	56,70	0,29	1,68
ALEKSA ŠANTIĆ	between 2nd and 3rd track	97+500-97+556	platform	55,61	0,24	1,90
BAJMOK	between 2nd and 3rd track	105+138-105+193	platform	54,62	0,23	1,90
Skenderevo	NONE				1	
TAVANKUT	between 2nd and 3rd track	115+350-115+399	platform	49,26	0,30	1,80
LJUTOVO	NONE					
ŠEBEŠIĆ	NONE					
Subotica suburbs	next to the line on the left	128+229-128+270	platform	41,00	0,25	1,60
110. Belgrade Centar – N	ovi Beograd					
	next to 3rd track	0+120-0+00-0+300	platform	420,00	0,55	10,00
	between 4th and 5th track	0+155-0+00-0+300	platform	455,00	0,55	10,00
BELGRADE CENTAR	between 6th and 7th track	0+155-0+00-0+300	platform	455,00	0,55	10,00
	between 8th and 9th track	0+120-0+00-0+300	platform	420,00	0,55	10,00
	next to 10th track	0+120-0+00-0+300	platform	420,00	0,55	10,00
NOW BEGGE 15	next to 1st track	4+798,8-5+273,5	platform	474,70	0,35 0,30 0,30 0,31 0,05 0,05 0,05 0,29 0,24 0,23 0,30 0,25 0,55 0,55 0,55 0,55	5,60
NOVI BEOGRAD	between 1st and 2nd track*	4+798,8-5+273,5	platform	474,70	0,35	4,00



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
	between 2nd and 3rd track	4+798,8-5+273,5	platform	474,70	0,35	10,60
	between 3rd and 4th track*	4+798,8-5+273,5	platform	474,70	0,35	4,00
	between 4th and 5th track	4+798,8-5+273,5	platform	474,70	0,35	10,60
	next to 5th track	4+798,8-5+273,5	platform	474,70	0,35	5,60
111. Belgrade Centar - Op	pen line junction G - (Ra	ikovica)				
	next to 3rd track	0+120-0+00-0+300	platform	420,00	0,55	10,00
	between 4th and 5th track	0+155-0+00-0+300	platform	455,00	0,55	10,00
BELGRADE CENTAR	between 6th and 7th track	0+155-0+00-0+300	platform	455,00	0,55	10,00
	between 8th and 9th track	0+120-0+00-0+300	platform	420,00	0,55	10,00
	next to 10th track	0+120-0+00-0+300	platform	420,00	0,55	10,00
112. Belgrade Marshalling	g yard ''A'' - Ostružnica	- Batajnica	•			
BELGRADE MARSHALLING YARD A	NONE					
OSTRUŽNICA	NONE					
SURČIN	NONE					
	between 1st and 2nd track	20+510-20+768	platform	258,00	0,35	1,90
BATAJNICA	between 2nd and 3rd track	20+543-20+722,5	platform	179,50	0,35	1,90
BATAJNICA	between 3rd and 4th track	20+598-20+722,5	platform	124,50	0,35	1,60
	between 4th and 5th track	20+598-20+772,5	platform	124,50	0,35	1,60
113. Belgrade Marshalling	g yard ''B'' - Ostružnica	ı				
BELGRADE MARSHALLING YARD B	NONE					
OSTRUŽNICA	NONE					
114. Belgrade Marshalling	g yard "A" - Open line j	unction"B" - Op	en line junctio	n''K/K1''	- Resnik	
BELGRADE MARSHALLING YARD A	NONE					
DEGNIK	between 1st and 2nd track	14+034-14+145	platform	111,00	0,40	1,60
RESNIK	between 3rd and 4th track	13+951-14+246	platform	295,00	0,40	6,30
115. Ostružnica - Open lir	ne junction"B" - (Open	line junction''K/I	K1")			
OSTRUŽNICA	NONE					
116. Belgrade Marshalling	g yard ''B'' - Open line j	unction''R'' - Op	en line junction	n''A'' - (R	esnik)	
BELGRADE MARSHALLING YARD B	NONE					
117. (Belgrade Marshallin	ng yard ''B'') - Open line	junction''R'' - R	Rakovica			
	next to 2nd track on the right	8+460-8+786	platform	326,00	0,55	6,10
DAVOVICA	between 3rd and 4th track	8+637-8+868	platform	231,00	0,55	6,10
RAKOVICA	Cotti Con Cra ana Tan trach			i	•	•
RAKOVICA	between 5th and 6th track	8+545-8+865	platform	320,00	0,55	6,20



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		km position of		Dimensi	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)	
1	2	3	4	5	6	7	
BELGRADE MARSHALLING YARD A	NONE						
	next to 2nd track on the right	8+460-8+786	platform	326,00	0,55	6,10	
RAKOVICA	between 3rd and 4th track	8+637-8+868	platform	231,00	0,55	6,10	
	between 5th and 6th track	8+545-8+865	platform	320,00	0,55	6,20	
119. Belgrade Marshalli	ng yard ''B'' - Open line j	unction''T'' - (Ra	akovica)			•	
BELGRADE MARSHALLING YARD B	NONE						
20. Connecting line in the 'K1'' - (Jajinci)	ne area of Open line junct	tion "K/K1": (O	pen line junct	ion''B'') - s	switch ''K	K'' - swite	
121. Topcider - Open lin	e junction Savski most - (Novi Belgrade)					
	next to 1st track (left)	4+978-5+218,50	platform	240,50	0,30	1,30	
TOPČIDER	next to 3rd track (left)	4+960-5+234	platform	274,00	0,45	1,60	
	between 3rd and 4th track	4+950-253,70	platform	303,7,00	0,45	1,60	
122. Topcder - Belgrade	spoljna - Belgrade Dunav	- Open line jund	ction Pančeva	čki most			
TOPČIDER	next to 1st track (left)	4+978-5+218,50	platform	240,50	0,30	1,30	
	next to 3rd track (left)	4+960-5+234	platform	274,00	0,45	1,60	
	between 3rd and 4th track	4+950-253,70	platform	303,7,00	0,45	1,60	
BELGRADE SPOLJNA	NONE						
BELGRADE DONJI GRAD	NONE						
BELGRADE DUNAV	between 2nd and 3rd track	9+866-10+136	platform	277,00	4,00	7,00	
	next to 2nd track	4+694-4+845	platform	151,00	0,90	4,94	
PANČEVAČKI MOST	next to 1st track	4+590-4+741	platform	151,00	0,90	4,94	
	next to the line on the right	10+500-10+600	platform	100,00	0,40	1,60	
23. By-pass line of Belg lonji grad)	rade External station: (T	opcider) - Block	1 "Obala" -	Block 2 "	Prelaz'' -	(Belgra	
124. (Open line junction Dedinje - (Open line jun	Pančevački most) - Open ction G)	line junction Ka	rađorđev par	k - Open li	ne junctio	n	
Karađorđev park	between tracks (next to the left track towards Banat)	1+123-1+215	platform	92,00			
rtaradordev park	between tracks (next to the right track towards Banat)	1+123-1+215	platform	92,00			
125. Inđija - Golubinci			<u>, </u>				
	between 1st and 2nd track	42+840-42+970	platform	130,00	0,40	1,60	
INĐIJA	between 2nd and 3rd track	42+783-42+928	platform	145,00	0,40	1,60	
	between 3rd and 4th track	42+783-42+928	platform	145,00	0,40	1,60	
Inđija Selo	next to the line on the right	1+540-1+590	platform	50,00	0,35	1,60	
GOLUBINCI	between 2nd and 3rd track	45+726-45+876	platform	150,00	0,35	1,60	
COLODITION	between 3rd and 4th track	45+726-45+876	platform	150,00	0,35	1,60	



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
126. Novi Sad - Novi Sad	Marshalling yard - Oper	line junction Sa	jlovo			
	next to 11th track	77+836-77+950	platform	114,00	0,40	3,00
	between 11th and 10th track	77+822-77+950	platform	128,00	0,40	3,72
	between 10th and 1st track	77+835-77+887	platform	52,00	0,40	4,20
NOVI SAD	next to 1st track	77+835-78+250	platform	415,00	0,40	4,20-8,90
	between 2nd and 4th track	77+843-78+181	platform	338,00	0,40	8,75
	between 12th and 1st track	78+104-78+250	platform	146,00	0,40	8,90
	between 14th and 13th track	78+104-78+249	platform	145,00	0,40	6,46
NOVI SAD MARSHALLING YARD	NONE					
127. By-pass line of Mala	Krsna station: (Kolari) -	- junction points	1 - junction po	ints 28 - (Osipaoni	ca)
128. Open line junction L	apovo Varoš - Lapovo m	arshalling yard	- Lapovo			
T	next to right track	106+250-106+310	platform	60,00	0,35	1,60
Lapovo Varoš	next to left track	106+250-106+310	platform	60,00	0,35	1,60
LAPOVO MARSHALLING YARD	NONE			·	1	1
	between 2nd and 3rd track	109+560-109+680	platform	120,00	0,35	1,60
LAPOVO	between 3rd and 4th track	109+560-109+680	platform	120,00	0,35	1,60
	next to 1st track	109+460-109+510	platform	50,00	0,35	1,60
129. Trupale - Niš marsha	alling yard - Međurovo					
TED LID A LE	between 2nd and 3rd track	234+893-234+994	platform	101,00	0,40	1,60
TRUPALE	between 4th and 5th track	234+893-234+994	platform	101,00	0,40	1,60
NIŠ MARSHALLING YARD	next to 1a track	238+184-238+263	platform	79,00	0,40	1,60
	between 2nd and 3rd track	243+410-243+813	platform	403,00	0,40	1,60
	between 4th and 5th track	243+410-243+771	platform	361,00	0,40	1,60
NIŠ	between 1b and 1st track	243+669-243+763	platform	94,00	0,40	1,60
	between 1a and turnout track	243+683-243+763	platform	80,00	0,40	1,60
130. Crveni krst - Niš mar	rshalling yard				•	
CRVENI KRST	between 2nd and 3rd track	240+842-240+994	platform	152,00	0,40	1,60
NIŠ MARSHALLING YARD	next to 1a track	238+184-238+263	platform	79,00	0,40	1,60
131. Niš - Open line junct	ion bridge - (Niš marsha	lling yard)		*	•	
	next to 1st track	243+410-243+763	platform	353,00	0,40	5,80
	between 2nd and 3rd track	243+410-243+813	platform	403,00	0,40	8,00
NIŠ	between 4th and 5th track	243+410-243+771	platform	361,00	0,40	8,00
	between 1b and 1st track	243+643-243+763	platform	120,00	0,40	5,80
	next to 1a track	243+660-243+763	platform	103,00	0,40	1,60
132. Connecting track of	Niš station: (Crveni krsť) - junction point	s 2 - junction p	oints 4 - (Ćele kula)



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
REGIONAL LINES						
201. Subotica - Horgoš - s	tate border - (Röszke)					
	between 1st and 2nd track	176+360-176+414	arranged surface	54,00	0,05	1,70
	between 1st and 2nd track	176+414-176+487	platform	73,00	0,25	1,60
SUBOTICA	between 1st and 2nd track	176+487-176+838	arranged surface	351,00	0,05	1,70
	between 2nd and 3rd track	176+322-176+838	arranged surface	516,00	0,05	1,70
	between 3rd and 4th track	176+335-176+573	arranged surface	238,00	0,05	1,70
Subotica public warehouses	next to the line on the right	2+283-2+392	platform	109,00	0,21	1,60
PALIĆ	between 1st and 2nd track	7+601-7+711	platform	110,00	0,26	1,60
Hajdukovo	next to the line on the left	11+703-11+813	platform	110,00	0,24	1,60
Bački Vinogradi	between 2nd and 3rd track	15+371-15+481	platform	110,00	0,23	1,60
HORGOŠ	between 1st and 2nd track	155+792-155+838	platform	46,00	0,22	1,90
HORGOS	between 2nd and 3rd track	155+793-155+838	platform	45,00	0,22	1,90
202. Pančevo Main Statio	n - Zrenjanin - Kikinda	- state border - (.	Jimbolia)			
	between 1st and 2nd track	15+913-16+033	platform	120,00	0,40	1,60
DANGENO MADI CEATION	between 1st and 2nd track	16+090-16+210	platform	120,00	0,40	1,60
PANČEVO MAIN STATION	between 2nd and 3rd track	15+913-16+210	platform	297,00	0,40	1,60
	between 3rd and 4th track	15+987-16+137	platform	150,00	0,40	1,60
JABUKA	NONE					
KAČAREVO	between 1st and 2nd track	26+784-26+834	platform	50,00	0,40	1,60
CREPAJA	NONE					
DEBELJAČA	NONE					
KOVAČICA	NONE					
UZDIN	NONE					
TOMAŠEVAC	between 1st and 2nd track	61+920-61+970	platform	50,00	0,35	1,60
TOWASEVAC	between 2nd and 3rd track	61+920-61+970	platform	50,00	0,35	1,60
ORLOVAT STOP	between 1st and 2nd track	64+025-64+075	platform	50,00	0,35	1,60
LUKIĆEVO	NONE					
ZRENJANIN PLANT	NONE					
ZRENJANIN	next to 1st track	88+705-88+776	platform	71,00	0,55	1,30
ELEMIR	NONE					
MELENCI	NONE					
KUMANE	NONE					
NOVI BEČEJ	NONE					
BANATSKO MILOŠEVO POLJE	NONE					
BANATSKO MILOŠEVO	NONE					
Derić	NONE					



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
WHYIND A	next to 1st track	160+030-160+166	platform	136,00	0,19	3,30-4,40
KIKINDA	between 1st and 2nd track	160+064-160+190	arranged surface	126,00	0,00	1,50
BANATSKO VELIKO SELO	NONE					
203. Banatsko Miloševo -	Senta - Subotica					
BANATSKO MILOŠEVO	NONE					
Bočar	NONE					
Ester	NONE					
PADEJ	NONE					
Ostojićevo	NONE					
ČOKA	NONE					
SENTA	between 1st and 2nd track	102+905-102+950	platform	45,00	0,17	1,90
Gornji Breg	NONE					
BOGARAŠ	NONE					
Doline	NONE					
OROM	NONE					
Gabrić	NONE					
Bikovo	NONE					
	between 1st and 2nd track	176+360-176+414	arranged surface	54,00	0,05	1,70
	between 1st and 2nd track	176+414-176+487	platform	73,00	0,25	1,60
SUBOTICA	between 1st and 2nd track	176+487-176+838	arranged surface	351,00	0,05	1,70
	between 2nd and 3rd track	176+322-176+838	arranged surface	516,00	0,05	1,70
	between 3rd and 4th track	176+335-176+573	arranged surface	238,00	0,05	1,70
204. Pančevo Varoš – Op	en line junction 2a - (Jab	uka)				
	next to 1st track	18+131-18+223	station plateau	92,00	0,40	1,60
PANČEVO VAROŠ	between 1st and 2nd track	18+105-18+345	platform	240,00	0,40	1,60
	between 2nd and 3rd track	18+100-18+364	platform	264,00	0,40	1,60
205. Novi Sad - Odžaci - I	Bogojevo					
	next to 11th track	77+836-77+950	platform	114,00	0,40	3,00
	between 11th and 10th track	77+822-77+950	platform	128,00	0,40	3,72
	between 10th and 1st track	77+835-77+887	platform	52,00	0,40	4,20
NOVI SAD	next to 1st track	77+835-78+250	platform	415,00	0,40	4,20-8,90
	between 2nd and 4th track	77+843-78+181	platform	338,00	0,40	8,75
	between 12th and 1st track	78+104-78+250	platform	146,00	0,40	8,90
	between 14th and 13th track	78+104-78+249	platform	145,00	0,40	6,46
Veternik	NONE					
FUTOG	NONE					
PETROVAC-GLOŽAN	NONE					



			km position of	Platform/	Dimensions			
Backi Maglic NONE	Service point	Location	and the end of		_	_		
GAIDORRA NONE Parage NONE CATKOVO NONE Odžací Kalvarija NONE KARAVUKOVO NONE Bogojevo Selo NONE CORNIE SAJILOVO MONE CORNIE SAJILOVO NONE RIMSKI ŠANČEVI NONE Budiasava NONE Budiasava NONE Vilovo-Gardinovci NONE Lok NONE Vilovo-Gardinovci NONE Lok NONE Vilovo-Gardinovci NONE Lok NONE Vilovo-Gardinovci NONE Lok NONE Vilovo-Gardinovci NONE Karičanin NONE FERLEZ NONE Karičanin NONE PERLEZ NONE FORLOVAT ONO Beween Ist and 2nd track 6+025-64+075 platform 50,00 0,4 1,60 COPA, Novi Sad Marshallinos NONE <t< td=""><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></t<>	1	2	3	4	5	6	7	
Parage NONE OZÁCI NONE OZÁCI NONE KARAVUKOVO NONE Bogojevo Selo NONE BOGOEVO NONE 206. (NOVÍ Sad) - Open Ibruction Sajlovo - Rimskévi - Orbust stop GORNIE SALOVO NONE RIMSKI ŠANČEVI NONE KAĆ NONE Budisava NONE SAJKAŠ NONE Vilovo-Gardinovci NONE Lok NONE PERLEZ NONE PRILEZ NONE PRILEZ NONE PRILEZ NONE PRILEZ NONE	Bački Maglić	NONE						
RATKOVO NONE	GAJDOBRA	NONE						
Odžaci Kalvarija NONE	Parage	NONE						
Odżaci Kalvarija NONE KARAVUKOVO NONE Bogojevo Selo NONE BOGOJEVO NONE JOS, (Novi Sad) - Open line junction Sajlovo - Rimski šančevi - Orlovat stop GORNJE SAJLOVO NONE RIMSKI ŠANČEVI NONE KAĆ NONE Budisava NONE ŠAJKAŠ NONE Lok NONE Lok NONE Lok NONE JONJI Titel NONE Knićanin NONE PFARKAŽDIN NONE ORLOVAT NONE ORLOVAT STOP between lst and 2nd track 64+025-64+075 platform 50,00 0,34 1,60 207. Novi Sad Marshalling NOVI SAD MARSHALLING NONE 208. Orlovat - Open line junction Ia - (Lukićeva) SOLOVAT NONE 209. Ruma - Šadac - Open line junction Donja Boria - state boria - (Zvornik Novi Sad Marshalling) POLOVAT NONE 209. Ruma - Šadac - Open line junction Donja Boria - state	RATKOVO	NONE						
RARAVUKOVO NONE Soggievo Selo Soggievo Selo Soggievo	ODŽACI	NONE						
Bogojevo Selo NONE SOP SOPE SOPE SOPE SOPE SOPE SOPE SOPE SOPE SOPE	Odžaci Kalvarija	NONE						
BOGOJEVO NONE 206. (Novi Sad) - Open line junction Sajlovo - Rimski šančevi - Orlovat stop GORNJE SAJLOVO NONE RIMSKI ŠANČEVI NONE KAĆ NONE Budisava NONE SAJKAŠ NONE Lok NONE SAJKAŠ NONE TITEL NONE SAJKAŠA NONE Miscala NONE Monifica NONE PERLEZ NONE PARLEZ NONE ORLOVAT NONE PARKAŽDIN NONE ORLOVAT NONE ORLOVAT STOP between 1st and 2nd track 64+025-64+075 platform \$0,00 0,34 1,60 208. Orlovat - Open line junction 1a - (Lukićevo) ORLOVAT NONE 209. Ruma - Šabac - Open line junction Donja Boriar - state borer - (Zvorni	KARAVUKOVO	NONE						
206. (Novi Sad) - Open line junction Sajlovo - Rimški šančevi - Orlovat stop GORNJE SAILOVO NONE RIMSKI ŠANČEVI NONE KAČ NONE Budisava NONE ŠAIKAŠ NONE Vilovo-Gardinovci NONE Lok NONE Donji Titel NONE Kničanin NONE FARKAZDIN NONE ORLOVAT NONE ORLOVAT STOP between 1st and 2nd track 64+025-64+075 platform 50,00 0,34 1,60 207. Novi Sad Marshalling Yard - Sajlovo Open Ime junction NONE 208. Orlovat - Open line junction 1a - (Lukićevo) NONE 209. Ruma - Šabac - Open line junction Donja Boritar - state border - (Zvornik Novi RUMA Between 2nd and 3rd track 64+733-64+973 platform 240,00 0,35 1,60 BUDANOVCI between 4th and 5th track 64+821-64+937 platform 240,00 0,35 1,60 BUDANOVCI between 1st and 2nd track 64+733-64+973 platform 31,00 0,35	Bogojevo Selo	NONE						
SORNJE SAJLOVO NONE SAJKAŠ NONE SAJK	BOGOJEVO	NONE						
RIMSKI ŠANČEVI NONE	206. (Novi Sad) - Open lin	e junction Sajlovo - Rin	ıski šančevi - Orl	ovat stop				
RAC	GORNJE SAJLOVO	NONE						
SAJKAŠ NONE SAJKAŠ NONE SAJKAŠ NONE SAJKAŠ NONE SAJKAŠ NONE SAJKAŠ NONE SAJKAŠ NONE SAJKAŠ NONE SAJKAŠ SAJKAŠ NONE SAJKAŠ S	RIMSKI ŠANČEVI	NONE						
SAJKAS NONE Vilovo-Gardinovci NONE Lok NONE TITEL NONE Donji Titel NONE Knićanin NONE FARKAŽDIN NONE ORLOVAT NONE ORLOVAT STOP between 1st and 2nd track 64+025-64+075 platform 50,00 0,34 1,60 207. Novi Sad Marshalling yard - Sajlovo Open line junction NONE 208. Orlovat - Open line junction 1a - (Lukićevo) ORLOVAT NONE 209. Ruma - Šabac - Open line junction Donja Borina - state border - (Zvornik Novi) Europen Junction Donja Borina - state border - (Zvornik Novi) Weween 2nd and 3rd track 64+733-64+973 platform 240,00 0,35 1,60 BUĐANOVCI between 1st and 2nd track 64+821-64+937 platform 240,00 0,35 1,60	KAĆ	NONE						
Vilovo-Gardinovci NONE Lok NONE TITEL NONE Donji Titel NONE Knićanin NONE FARKAŽDIN NONE ORLOVAT NONE CRLOVAT STOP between 1st and 2nd track 64+025-64+075 platform \$0,00 0,34 1,60 207. Novi Sad Marshalling NONE 208. Orlovat - Open line junction 1a - (Lukićevo) ORLOVAT NONE 209. Ruma - Šabac - Open line junction Donja Borina - state border - (Zvornik Novi) RUMA between 2nd and 3rd track 64+733-64+973 platform 240,00 0,35 1,60 BUDANOVCI between 1st and 2nd track 64+821-64+937 platform 31,00 0,35 1,60 BUDANOVCI between 1st and 2nd track 64-821-64+937 platform 31,00 0,35	Budisava	NONE						
Donji Titel NONE	ŠAJKAŠ	NONE						
NONE NONE	Vilovo-Gardinovci	NONE						
NONE NONE	Lok	NONE						
NONE	TITEL	NONE						
PERLEZ NONE	Donji Titel	NONE						
NONE	Knićanin	NONE						
ORLOVAT NONE ORLOVAT STOP between 1st and 2nd track 64+025-64+075 platform 50,00 0,34 1,60 207. Novi Sad Marshalling yard - Sajlovo Open line junction NOVI SAD MARSHALLING YARD NONE 208. Orlovat - Open line junction 1a - (Lukićevo) ORLOVAT NONE 209. Ruma - Šabac - Open line junction Donja Borina - state border - (Zvornik Novi) RUMA between 2nd and 3rd track 64+733-64+973 platform 240,00 0,35 1,60 BUDANOVCI between 4th and 5th track 64+821-64+937 platform 240,00 0,35 1,60 BUDANOVCI between 1st and 2nd track 11+324-11+355 platform 31,00 0,35 1,60 Nikinci next to the line on the left 16+657,7-16+688,7 platform 31,00 0,35 1,60 PLATIČEVO between 1st and 2nd track 21+293-21+323 platform 30,00 0,35 1,60 Klenak next to the line on the right 28+873,15- 28+904,15	PERLEZ	NONE						
ORLOVAT STOP between 1st and 2nd track 64+025-64+075 platform 50,00 0,34 1,60 207. Novi Sad Marshalling yard - Sajlovo Open line junction NONE 208. Orlovat - Open line junction 1a - (Lukićevo) ORLOVAT NONE 209. Ruma - Šabac - Open line junction Donja Borina - state border - (Zvornik Novi) RUMA between 2nd and 3rd track 64+733-64+973 platform 240,00 0,35 1,60 between 4th and 5th track 64+821-64+937 platform 116,00 0,35 1,60 BUÐANOVCI between 1st and 2nd track 11+324-11+355 platform 31,00 0,35 1,60 Nikinci next to the line on the left 16+657,7-16+688,7 platform 31,00 0,35 1,60 Klenak next to the line on the right 28+873,15- 28+904,15 platform 31,00 0,35 1,60	FARKAŽDIN	NONE						
Novi Sad Marshalling yard - Sajlovo Open line junction	ORLOVAT	NONE						
NOVI SAD MARSHALLING YARD NONE	ORLOVAT STOP	between 1st and 2nd track	64+025-64+075	platform	50,00	0,34	1,60	
YARD NONE 208. Orlovat - Open line junction 1a - (Lukićevo) ORLOVAT NONE 209. Ruma - Šabac - Open line junction Donja Borina - state border - (Zvornik Novi) RUMA between 2nd and 3rd track 64+733-64+973 platform 240,00 0,35 1,60 between 3rd and 4th track 64+733-64+973 platform 116,00 0,35 1,60 between 4th and 5th track 64+821-64+937 platform 116,00 0,35 1,60 BUÐANOVCI between 1st and 2nd track 11+324-11+355 platform 31,00 0,35 1,60 Nikinci next to the line on the left 16+657,7-16+688,7 platform 31,00 0,35 1,60 PLATIČEVO between 1st and 2nd track 21+293-21+323 platform 30,00 0,35 1,60 Klenak next to the line on the right 28+873,15-28+904,15 platform 31,00 0,35 1,60	207. Novi Sad Marshallin	g yard - Sajlovo Open lii	ne junction					
ORLOVAT NONE 209. Ruma - Šabac - Open line junction Donja Borina - state border - (Zvornik Novi) RUMA between 2nd and 3rd track 64+733-64+973 platform 240,00 0,35 1,60 RUMA between 3rd and 4th track 64+733-64+973 platform 240,00 0,35 1,60 between 4th and 5th track 64+821-64+937 platform 116,00 0,35 1,60 BUÐANOVCI between 1st and 2nd track 11+324-11+355 platform 31,00 0,35 1,60 Nikinci next to the line on the left 16+657,7-16+688,7 platform 31,00 0,35 1,60 PLATIČEVO between 1st and 2nd track 21+293-21+323 platform 30,00 0,35 1,60 Klenak next to the line on the right 28+873,15- 28+904,15 platform 31,00 0,35 1,60		NONE						
209. Ruma - Šabac - Open line junction Donja Borina - state border - (Zvornik Novi) RUMA between 2nd and 3rd track 64+733-64+973 platform 240,00 0,35 1,60 BUMA between 3rd and 4th track 64+733-64+973 platform 240,00 0,35 1,60 BUÐANOVCI between 1st and 2nd track 11+324-11+355 platform 31,00 0,35 1,60 Nikinci next to the line on the left 16+657,7-16+688,7 platform 31,00 0,35 1,60 PLATIČEVO between 1st and 2nd track 21+293-21+323 platform 30,00 0,35 1,60 Klenak next to the line on the right 28+873,15- 28+904,15 platform 31,00 0,35 1,60	208. Orlovat - Open line j	unction 1a - (Lukićevo)						
RUMA between 2nd and 3rd track 64+733-64+973 platform 240,00 0,35 1,60 between 3rd and 4th track 64+733-64+973 platform 240,00 0,35 1,60 between 4th and 5th track 64+821-64+937 platform 116,00 0,35 1,60 BUÐANOVCI between 1st and 2nd track 11+324-11+355 platform 31,00 0,35 1,60 Nikinci next to the line on the left 16+657,7-16+688,7 platform 31,00 0,35 1,60 PLATIČEVO between 1st and 2nd track 21+293-21+323 platform 30,00 0,35 1,60 Klenak next to the line on the right 28+873,15- 28+904,15 platform 31,00 0,35 1,60	ORLOVAT	NONE						
RUMA between 2nd and 3rd track 64+733-64+973 platform 240,00 0,35 1,60 between 3rd and 4th track 64+733-64+973 platform 240,00 0,35 1,60 between 4th and 5th track 64+821-64+937 platform 116,00 0,35 1,60 BUÐANOVCI between 1st and 2nd track 11+324-11+355 platform 31,00 0,35 1,60 Nikinci next to the line on the left 16+657,7-16+688,7 platform 31,00 0,35 1,60 PLATIČEVO between 1st and 2nd track 21+293-21+323 platform 30,00 0,35 1,60 Klenak next to the line on the right 28+873,15- 28+904,15 platform 31,00 0,35 1,60	209. Ruma - Šabac - Oper	line junction Donja Bo	rina - state borde	er - (Zvornik N	ovi)			
between 4th and 5th track 64+821-64+937 platform 116,00 0,35 1,60 BUDANOVCI between 1st and 2nd track 11+324-11+355 platform 31,00 0,35 1,60 Nikinci next to the line on the left 16+657,7-16+688,7 platform 31,00 0,35 1,60 PLATIČEVO between 1st and 2nd track 21+293-21+323 platform 30,00 0,35 1,60 Klenak next to the line on the right 28+873,15- 28+904,15 platform 31,00 0,35 1,60						0,35	1,60	
BUÐANOVCI between 1st and 2nd track 11+324-11+355 platform 31,00 0,35 1,60 Nikinci next to the line on the left 16+657,7-16+688,7 platform 31,00 0,35 1,60 PLATIČEVO between 1st and 2nd track 21+293-21+323 platform 30,00 0,35 1,60 Klenak next to the line on the right 28+873,15- 28+904,15 platform 31,00 0,35 1,60	RUMA	between 3rd and 4th track	64+733-64+973	platform	240,00	0,35	1,60	
BUÐANOVCI between 1st and 2nd track 11+324-11+355 platform 31,00 0,35 1,60 Nikinci next to the line on the left 16+657,7-16+688,7 platform 31,00 0,35 1,60 PLATIČEVO between 1st and 2nd track 21+293-21+323 platform 30,00 0,35 1,60 Klenak next to the line on the right 28+873,15- 28+904,15 platform 31,00 0,35 1,60		between 4th and 5th track	64+821-64+937	platform	116,00	0,35	1,60	
Nikinci next to the line on the left 16+657,7-16+688,7 platform 31,00 0,35 1,60 PLATIČEVO between 1st and 2nd track 21+293-21+323 platform 30,00 0,35 1,60 Klenak next to the line on the right 28+873,15- 28+904,15 platform 31,00 0,35 1,60	BUĐANOVCI	between 1st and 2nd track	11+324-11+355	_	31,00	0,35	1,60	
PLATIČEVO between 1st and 2nd track 21+293-21+323 platform 30,00 0,35 1,60 Klenak next to the line on the right 28+873,15- 28+904,15 platform 31,00 0,35 1,60	Nikinci						1,60	
Rienak next to the line on the right $28+904,15$ platform $31,00$ $0,35$ $1,60$	PLATIČEVO	between 1st and 2nd track	21+293-21+323	platform	30,00	0,35	1,60	
ŠABAC between 1st and 2nd track 32+684-32+738 platform 54,00 0,40 1,00	Klenak	next to the line on the right		platform	31,00	0,35	1,60	
	ŠABAC	between 1st and 2nd track	32+684-32+738	platform	54,00	0,40	1,00	



Service point Location Location Location Location Location Location Location Platform/ arranged surface 1 2 3 4 Majur next to the line on the left 3+975-4+025 platform ŠTITAR between 1st and 2nd track 7+713,7-7+735,7 platform Dublje Mačvansko NONE PETLOVAČA NONE Ribari NONE	Length (m) 5 50,00 22,00	Height (m) 6 0,35	Width (m)
Majur next to the line on the left 3+975-4+025 platform ŠTITAR between 1st and 2nd track 7+713,7-7+735,7 platform Dublje Mačvansko NONE PETLOVAČA NONE	50,00		7
ŠTITARbetween 1st and 2nd track7+713,7-7+735,7platformDublje MačvanskoNONEPETLOVAČANONE		0,35	
Dublje Mačvansko NONE PETLOVAČA NONE	22,00		
PETLOVAČA NONE		0,35	1,60
Ribari NONE			
PRNJAVOR MAČVANSKI NONE			
Podrinsko Novo Selo NONE			
LEŠNICA between 1st and 2nd track 34+900-35+025 platform	125,00	0,55	2,40
Jadarska Straža next to the line on the right 38+860-38+940 platform	80,00	0,35	1,60
Lipnica NONE	1		
LOZNICA NONE			
Loznica factory NONE			
KOVILJAČA between 1st and 2nd track 56+170-56+213 platform	43,00	0,35	1,60
Gornja Koviljača NONE	1		
BRASINA between 2nd and 3rd track 65+212-65+354 platform	142,00	0,35	3,20
Donja Borina next to the line on the right 68+650-68+750 platform	100,00	0,35	1,60
210. (Platičevo) - Open line junction 1 - Open line junction 3 - (Štitar)	1		
211. Stalać - Kraljevo - Požega			
between 2nd and 3rd track 176+222-176+425 platform	203,00	0,28	6,40
STALAĆ between 4th and 5th track 176+222-176+425 platform	203,00	0,28	1,60
between 6th and 7th track 176+270-176+378 platform	108,00	0,28	5,30
Mrzenica next to the line on the right 3+868-3+910 platform	42,00	0,35	2,00
Makrešane NONE			
DEDINA NONE			
between 2nd and 3rd track 14+451-14+626 platform	175,00	0,35	2,84
KRUŠEVAC between 3rd and 4th track 14+490,3-14+610,3 platform	120,00	0,35	1,60
Čitluk NONE		<u> </u>	
KOŠEVI NONE			
Globoder NONE			
STOPANJA NONE			
Donja Počekovina NONE			
POČEKOVINA NONE			
Trstenički Odžaci NONE			
TRSTENIK between 2nd and 3rd track 42+400-42+500 platform	100,00	0,35	1,80
VRNJAČKA BANJA between 2nd and 3rd track 49+136-49+241 platform	105,00	0,35	1,60
Lipova NONE	<u> </u>		_1
Tominac NONE			
PODUNAVCI NONE			



		km position of	Platform/	Dimensions		
Service point	Location	LANG THE CHOOL I	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
Vraneši	NONE					
Vrba	NONE					
RATINA	NONE					
ND VI TEMO	between 1st and 2nd track	84+649-84+733	platform	84,00	0,33	1,60
KRALJEVO	between 2nd and 3rd track	84+649-84+748	platform	99,00	0,33	1,60
Sirča	next to the line on the left	68+880,7-68+940,4	platform	59,70	0,35	1,60
ADRANI	between 2nd and 3rd track	78+622,2-78+657,2	platform	35,00	0,35	1,60
Mrsać	next to the line on the left	81+513-81+553	platform	40,00	0,33	0,50
SAMAILA	NONE					
Goričani	next to the line on the left	88+610-88+658	platform	48,00	0,37	1,00
MRŠINCI	between 2nd and 3rd track	92+241-92-279	platform	38,00	0,35	1,00
Kukići	NONE		1	-		
ZABLAĆE	NONE					
Baluga	NONE					
	next to the 1st track on the left	105+500-105+590	platform	90,00	0,44	6,50
ČAČAK	between 1st and 2nd track	105+494-105+628	platform	134,00	0,37	1,60
	between 2nd and 3rd track	105+494-105+615	platform	121,00	0,38	1,60
Trbušani	next to the line on the left	110+240-110+263	platform	23,00	0,40	1,60
PRIJEVOR	between 2nd and 3rd track	112+820-113+070	platform	250,00	0,40	1,60
OVČAR RANIA	next to the line on the right	120+450-120+550	platform	100,00	0,40	1,60
OVČAR BANJA	between 1st and 2nd track	120+450-120+652	platform	202,00	0,35	1,60
Jelen Do	next to the line on the right	127+180-127+320	platform	50,00	0,40	1,60
Dragačevo	between 2nd and 3rd track	128+295-128+405	platform	110,00	0,40	1,60
Gugalj	NONE		1	-1		1
Boračko	NONE					
POŽECA	next to the 1st track	140+720-140+975	platform	2559,00	0,45	10,00
POŽEGA	between 2nd and 3rd track	146+675-140+984	platform	309,00	0,45	6,20

212. Connecting line of Kraljevo station: (Mataruška Banja) – junction points No 72 - junction points No 73 - (Adrani)

213. Connecting line of Požega station: (Uzići) - junction points No 53 - junction points No 54 - (Dragačevo)

214. Smederevo - Mala Krsna

SMEDEREVO	between 1st and 2nd track	0+000-0-103	platform	103,00	0,40	1,60
	between 2nd and 3rd track	0+000-0-105	platform	105,00	0,40	1,60
Godomin	next to the line on the left	3+303-3+350	platform	47,00	0,40	1,60
RADINAC	next to 1st track	6+650-6+800	platform	150,00	0,50	2,20
	between 2nd and 3rd track	6+650-6+800	platform	150,00	0,60	6,20
Vranovo	next to the line on the left	9+475-9+537	platform	62,00	0,40	1,90



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
	between 1st and 2nd track	69+030-69+175	platform	145,00	0,40	1,90
	between 2nd and 3rd track	69+030-69+175	platform	145,00	0,40	1,90
MALA KRSNA	between 3rd and 4th track	69+042-69+184	platform	142,00	0,40	1,90
	between 4th and 5th track	69+080-69+230	platform	150,00	0,40	1,90
215. Mala Krsna - Bor -	Open line junction 2 - (V	ražogrnac)		1	<u> </u>	
	between 1st and 2nd track	69+030-69+175	platform	145,00	0,40	1,90
	between 2nd and 3rd track	69+030-69+175	platform	145,00	0,40	1,90
MALA KRSNA	between 3rd and 4th track	69+042-69+184	platform	142,00	0,40	1,90
	between 4th and 5th track	69+080-69+230	platform	150,00	0,40	1,90
LJUBIČEVSKI bridge	NONE	<u> </u>	1 -			<u> </u>
	between 1st and 2nd track	87+703-87+826	platform	123,00	0,40	1,80
POŽAREVAC	between 2nd and 3rd track	87+712-87+816	platform	104,00	0,40	1,60
Jugovićevo	next to the line on the left	89+078-89+094	platform	16,00	0,50	1,00
Sopot Požarevački	next to the line on the right	90+082-90+107	platform	25,00	0,40	1,60
BUBUŠINAC-BRATINAC	NONE		1	· · · · · · · · · · · · · · · · · · ·	1	
Bare-Kasidol	NONE					
STIG	between 1st and 2nd track	102+693-102+764	platform	71,00	0,40	1,60
Majilovac	NONE		1 2	<u>'</u>		
SIRAKOVO	between 1st and 2nd track	109+026-109+079	platform	53,00	0,40	1,60
LJUBINJE	between 1st and 2nd track	116+381-116+444	platform	63,00	0,40	1,60
Češljeva Bara	next to the line on the left	122+138-122+200	platform	62,00	0,40	1,60
RABROVO-KLENJE	between 1st and 2nd track	126+007-126+067	platform	60,00	0,40	1,60
Mustapić	NONE					
Mišljenovac	NONE					
ZVIŽD	NONE					
Kučevska Turija	NONE					
KAONA	NONE					
KUČEVO	NONE					
Neresnica	NONE					
Neresnica (freight)	NONE					
Voluja	NONE					
BRODICA	between 2nd and 3rd track	164+515-164+576	platform	61,00	0,40	1,60
Bosiljkovac	NONE	1	1	1	1	I
Blagojev Kamen	NONE					
MAJDANPEK	between 2nd and 3rd track	178+769-178+920	platform	151,00	0,35	1,60
Debeli Lug	next to the line on the left	181+300-181+318	platform	18,00	0,35	1,60
LESKOVO	between 2nd and 3rd track	187+660-187+722	platform	62,00	0,35	1,60
Jasikovo	next to the line on the left	191+810-191+890	arranged surface	80,00	0,09	1,60



		km position of	Platform/ arranged surface	Dimensions		
Service point	Location	the beginning and the end of platform		Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
Vlaole Selo	next to the line on the right	194+740-194+780	arranged surface	40,00	0,20	1,60
VLAOLE	between 2nd and 3rd track	197+163-197+224	platform	61,00	0,35	1,60
Gornjane	next to the line on the right	200+288-200+386	arranged surface	98,00	0,35	1,60
Šušulajka	NONE		-	1		
CEROVO	NONE					
Kriveljski most	next to the line on the right	207+905-207+995	arranged surface	90,00	0,35	1,60
Kriveljski potok	next to the line on the left	211+873-211+913	arranged surface	40,00	0,35	1,60
MALI KRIVELJ	between 1st and 2nd track	215+171-215+206	platform	35,00	0,35	1,60
Brezonik	next to the line on the left	217+490-217+540	platform	50,00	0,35	1,60
	next to 1st track	221+369-221+452	platform	83,00	0,35	8,00
BOR	between 2nd and 3rd track	221+352-221+452	platform	100,00	0,35	1,60
BOR FREIGHT	between 2nd and 3rd track	224+320-224+375	platform	55,00	0,35	1,60
BORSKA SLATINA	NONE		_	1		
ZAGRAĐE	NONE					
RGOTINA	between 1st and 2nd track	244+658-244+738	platform	80,00	0,35	1,60
216. Crveni krst - Zaj	ečar - Prahovo port					
CRVENI KRST	between 2nd and 3rd track	240+842-240+994	platform	152,00	0,40	1,60
Pantelej	next to the line on the left	7+455-7+507	platform	52,00	0,35	1,60
MATEJEVAC	NONE	1				I.
Gornja Vrežina	NONE					
Jasenovik	NONE					
GRAMADA	between 1st and 2nd track	30+232-30+282	platform	50,00	0,35	1,60
Hadžićevo	NONE	1		1	1	
SVRLJIG	between 1st and 2nd track	39+925-40+075	platform	150,00	0,35	1,60
Niševac	next to the line on the right	46+002-46+018	platform	16,00	0,35	1,60
PALILULA	between 1st and 2nd track	49+307-49+357	platform	50,00	0,35	1,60
Svrljiški Miljkovac	NONE	1		1	1	
PODVIS	between 1st and 2nd track	60+853-60+903	platform	50,00	0,35	1,60
Rgošte	NONE	1		1	1	
KNJAŽEVAC	between 1st and 2nd track	68+299-68+449	platform	150,00	0,35	1,60
Gornje Zuniče	next to the line on the right	72+080-72+142	platform	62,00	0,35	1,60
Donje Zuniče	next to the line on the right	74+988-75+076	platform	88,00	0,35	1,60
NO HÁCINA	between 1st and 2nd track	81+830-81+930	platform	100,00	0,35	1,60
MINIĆEVO	between 2nd and 3rd track	81+930-81+975	platform	45,00	0,35	1,60
Selačka Reka	next to the line on the right	84+450-84+500	arranged surface	50,00	0,35	1,60
Mali Izvor	next to the line on the right	88+180-88+230	platform	50,00	0,35	1,60
Vratarnica	between 1st and 2nd track	96+048-96+098	platform	50,00	0,35	1,60
GRLJAN	between 1st and 2nd track	102+955-103+105	platform	150,00	0,35	1,60



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
Timok	next to the line on the left	107+320-107+380	arranged surface	60,00	0,35	1,60
	between 1st and 2nd track	111+622-111+820	platform	198,00	0,35	1,60
ZAJEČAR	between 2nd and 3rd track	111+662-111+815	platform	153,00	0,35	1,60
	between 3rd and 4th track	111+651-111+803	platform	152,00	0,35	1,60
VRAŽOGRNAC	between 1st and 2nd track	118+760-118+910	platform	150,00	0,35	1,60
TRNAVAC	between 1st and 2nd track	124+593-124+668	platform	75,00	0,35	1,60
Čokonjar	next to the line on the left	128+500-128+550	platform	50,00	0,35	1,60
Sokolovica	next to the line on the right	131+100-131+125	platform	25,00	0,35	1,60
TABAKOVAC	between 1st and 2nd track	136+170-136+223	platform	53,00	0,35	1,60
Tabakovačka reka	next to the line on the right	138+740-138+790	platform	50,00	0,35	1,60
BRUSNIK	between 1st and 2nd track	145+616-145+696	platform	80,00	0,35	1,60
Tamnič	next to the line on the right	148+420-148+480	platform	60,00	0,35	1,60
Crnomasnica	next to the line on the right	151+323-151+364	platform	41,00	0,35	1,60
Rajac	next to the line on the right	154+430-154+505	platform	75,00	0,35	1,60
ROGLJEVO	between 1st and 2nd track	156+795-156+875	platform	80,00	0,35	1,60
Veljkovo	NONE			1	ı	II.
Mokranja	NONE					
Kobišnica	NONE					
NEGOTIN	between 2nd and 3rd track	174+049-174+199	platform	150,00	0,35	1,60
PRAHOVO	between 2nd and 3rd track	181+974-182+054	platform	80,00	0,35	1,60
PRAHOVO PORT	NONE	1	,	1	II.	
217. (Rgotina) - Open line	junction 3 - Open line j	unction 1 - (Trna	ivac)			
218. Doljevac - Kastrat - 1	Kosovo Polje					
DOLIEWA C	between 1st and 2nd track	261+419-261+527	platform	108,00	0,40	1,60
DOLJEVAC	between 2nd and 3rd track	261+419-261+526	platform	107,00	0,40	1,60
Šajinovac	NONE			•		•
Toplički Badnjevac	NONE					
Jasenica	NONE					
ŽITORAĐA	NONE					
Žitorađa Centar	next to the line on the left	10+925-10+977	platform	52,00	0,40	1,60
Rečica	NONE	1	,	1	11	1
Lukomir	NONE					
Podina	NONE					
Babin Potok	next to the line on the right	18+726-18+774	platform	48,00	0,40	1,60
PROKUPLJE	between 1st and 2nd track	22+257-22+370	platform	113,00	0,40	1,60
Gornja Draganja	next to the line on the left	24+990-25+027	platform	37,00	0,40	1,60
TOPLIČKA MALA PLANA	NONE	1		1	ti.	
Bresničići	NONE					



		km position of	Platform/ arranged surface	Dimensions		
Service point	Location	the beginning and the end of platform		Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
BELOLJIN	NONE	<u>.</u>				
Toplica Milan	NONE					
PLOČNIK	NONE					
BARLOVO	NONE					
Novoselske Livade	NONE					
Pepeljevac	NONE					
Open line junction Kastrat	NONE					
Visoka	NONE					
Ljuša	NONE					
RUDARE	NONE					
Dešiška	NONE					
KOSANIČKA RAČA	NONE					
Kosanica	NONE					
KOSANČIĆ IVAN	NONE					
Vasiljevac	NONE					
Merdare	NONE					
219. Kuršumlija - Kastra	at					
KURŠUMLIJA	NONE					
220. (Barlovo) - Open lin	ne junction 1 - Kuršumli	ja				
KURŠUMLIJA	NONE					
221. Kosovo Polje - Metohija - Peć *						
222. Kosovo Polje Freight - Open line junction 1 - (Drenica) *						

LOCAL LINES							
301. Subotica - Subotica factory							
302. Subotica - Subotica hospital							
	between 1st and 2nd track	176+360-176+414	arranged surface	54,00	0,05	1,70	
SUBOTICA	between 1st and 2nd track	176+414-176+487	platform	73,00	0,25	1,60	
	between 1st and 2nd track	176+487-176+838	arranged surface	351,00	0,05	1,70	
	between 2nd and 3rd track	176+322-176+838	arranged surface	516,00	0,05	1,70	
	between 3rd and 4th track	176+335-176+573	arranged surface	238,00	0,05	1,70	
303. Kanjiža - Horgoš							
KANJIŽA	between 1st and 2nd track	123+185-123+215	platform	30,00	0,24	1,60	
Martonoš	NONE						
HORGOŠ	between 1st and 2nd track	155+792-155+838	platform	46,00	0,22	1,90	
HOROOS	between 2nd and 3rd track	155+793-155+838	platform	45,00	0,22	1,90	



		km position of	Platform/	Dimensi	ons	
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
304. Novi Sad - Novi S	ad ložionica					
	next to 11th track	77+836-77+950	platform	114,00	0,40	3,00
	between 11th and 10th track	77+822-77+950	platform	128,00	0,40	3,72
NOVI SAD	between 10th and 1st track	77+835-77+887	platform	52,00	0,40	4,20
	next to 1st track	77+835-78+250	platform	415,00	0,40	4,20-8,90
	between 2nd and 4th track	77+843-78+181	platform	338,00	0,40	8,75
	between 12th and 1st track	78+104-78+250	platform	146,00	0,40	8,90
	between 14th and 13th track	78+104-78+249	platform	145,00	0,40	6,46
305. (Podbara) - Open	line junction 3 - Open line	junction 2 - (Kać)			
306. (Rimski šančevi)	Open line junction 1 - Ope	en line junction 3	- (Podbara)			
307. Rimski šančevi - l	Bečej					
RIMSKI ŠANČEVI	NONE					
Bački Jarak	NONE					
TEMERIN	NONE					
GOSPOÐINCI	NONE					
ŽABALJ	NONE					
ČURUG	NONE					
Bačko Gradište	NONE					
Bečej predgrađe	NONE					
BEČEJ	NONE					
308. Vrbas - Sombor						
VRBAS	between 2nd and 3rd track	116+702-116+770,3	platform	68,00	0,35	1,40
VKDAS	between 3rd and 4th track	116+702-116+770,3	platform	68,00	0,35	1,40
KULA	between 2nd and 3rd track	47+626 - 47+667	platform	41,00	0,25	1,52
CRVENKA	between 1st and 2nd track	54+956 - 54+986	platform	30,00	0,15	1,56
SIVAC	NONE					
Novi Sivac	NONE					
KLJAJIĆEVO	between 1st and 2nd track	75+417 - 75+456	platform	39,00	0,15	1,38
Čonoplja	between 1st and 2nd track	79+692 - 79+722	platform	30,00	0,15	1,31
	between 1st and 2nd track	73+417-73+477	platform	60,00	0,31	1,61
	between 1st and 2nd track	73+584-73+612	arranged surface	28,00	0,05	1,50
COMPOR	between 1st and 2nd track	73+673-73+823	arranged surface	150,00	0,05	1,50
SOMBOR	between 2nd and 3rd track	73+417-73+477	platform	60,00	0,38	1,61
	between 2nd and 3rd track	73+584-73+612	arranged surface	28,00	0,05	1,50
			0	,	1	



310. Apatin Fabrika - Strilić – Sombor - traffic suspended



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
311. Bač – Karavukovo -	traffic suspended					
KARAVUKOVO	NONE					
312. Bačka Palanka - Ga	jdobra					
GAJDOBRA	NONE					
313. (Brasina) - Open lin	e junction Donja Borina	- Zvornik Grad				
ZVORNIK GRAD	NONE					
314. Šid - Sremska Rača	Nova - state border - (Bi	jeljina)				
	between 1st and 2nd track	116+300-116+490	arranged surface	190,00	0,10	2,50
ŠID	between 2nd and 3rd track	116+300-116+665	platform	365,00	0,45	1,60
	between 3rd and 4th track	116+300-116+677	platform	377,00	0,45	1,60
Adaševci	NONE	1	I	1	1	1
MOROVIĆ	between 1st and 2nd track	12+360-12+390	platform	30,00	0,35	1,60
VIŠNJIĆEVO	between 1st and 2nd track	19+633-19+655	platform	22,00	0,35	1,60
Open line junction Rača	NONE	1	I			
SREMSKA RAČA NOVA	between 1st and 2nd track	24+169-24+205	platform	36,00	0,35	1,60
315. Kikinda - Banatsko	Aranđelovo- traffic susp	ended		il.	1	ii.
316. Sečanj - Jaša Tomić	- traffic suspended					
317. Zrenjanin Plant - Vi	ršac - Bela Crkva					
ZRENJANIN PLANT	NONE					
Lazarevo	NONE					
Zlatica	NONE					
Banatski Despotovac	NONE					
SUTJESKA	NONE					
SEČANJ	between 1st and 2nd track	32+780-32+810	platform	30,00	0,35	1,60
SECAN	between 2nd and 3rd track	32+810-32-840	platform	30,00	0,35	1,60
BOKA	between 2nd and 3rd track	38+708-38+738	platform	30,00	0,35	1,60
KONAK	between 2nd and 3rd track	46+988-47+018	platform	30,00	0,35	1,60
Stari Lec	next to the line on the left	NONE				
VELIKA GREDA	NONE					
BANATSKO PLANDIŠTE	NONE					
Margita	NONE					
Laudonovac	NONE				1	
VRŠAC	between 1st and 2nd track	82+807,5-82+902,5	platform	95,00	0,40	1,60
	between 2nd and 3rd track	82+807,5-82+902,5	platform	95,00	0,40	1,60
Potporanj	NONE					
Straža	NONE					
JASENOVO	NONE					



		km position of	Platform/	Dimensions		
Service point	Location	the beginning and the end of platform	arranged surface	Length (m)	Height (m)	Width (m)
1	2	3	4	5	6	7
Crvena Crkva	NONE					,
BELA CRKVA	between 1st and 2nd track	119+067-119+097	platform	30,00	0,40	1,60
318. Pančevo Varoš - Pan	tevo Vojlovica			1	1	1
	between 1st and 2nd track	18+105-18+345	platform	240,00	0,40	1,60
PANČEVO VAROŠ	next to 1st track	18+131-18+223	station plateau	92,00	0,40	1,60
	between 2nd and 3rd track	18+100-18+364	platform	264,00	0,40	1,60
Pančevo Strelište	next to the line on the left	1+290-1+400	platform	110,00	0,40	1,60
PANČEVO VOJLOVICA	between 3rd and 4th track	2+632-2+852	platform	220,00	0,40	1,60
PANCEVO VOJLOVICA	next to 4th track	2+645-2+865	platform	220,00	0,40	1,60
319. (Uljma) - Open line j	junction A - Open line ju	ınction B - (Jasen	ovo)			
320. Connecting line of So	enta station: (Čoka) – ju	nction points 22 -	junction point	s 23 - (Or	om)	
321. (Požarevac) - Open l	ine junction Sopot Požai	revački – Kostola	c- traffic suspe	nded		
322. Markovac - Resavica	 1					
	between 2nd and 3rd track	100+400-100+450	platform	50,00	0,40	1,60
MARKOVAC	between 3rd and 4th track	100+350-100+452	platform	102,00	0,40	1,60
	between 4th and 5th track	100+350-100+448	platform	92,00	0,40	1,60
323. Ovča - Padinska Ske	la- traffic suspended	1			1	.1
324. Metohija - Prizren *						
SHUNTING LINES						
401. Bečej – Vrbas - traff	ic suspended					
402. Vršac - Vršac Vašari	ište					
TTD X 1 G	between 1st and 2nd track	82+807,5-82+902,5	platform	95,00	0,40	1,60
VRŠAC	between 2nd and 3rd track	82+807,5-82+902,5	platform	95,00	0,40	1,60
403. Alibunar – Seleuš - t	raffic suspended				-	
404. Vladimirovac – Kovi	in - traffic suspended					
405. Čoka - Novi Kneževa	ac- traffic suspended					
406. Kikinda - Metanolsk	o sirćetni kompleks (km	6+413)				
	next to 1st track	160+030-160+166	platform	136,00	0,19	3,30-4,40
KIKINDA	between 1st and 2nd track	160+064-160+190	arranged surface	126,00	0,00	1,50
407. Bogojevo – Dunav ol	bala - traffic suspended		•	•		
408. (Sombor) - Open line	e junction Strilić - Bački	breg - traffic sus	pended			
409. Sombor – Riđica - tr		-				
410. (Višnjićevo) - Open l		nska Rača - traffi	c suspended			
411. Paraćin - Stari Popo	•					
	Harrie Buspellueu					



412. Surčin - Jakovo Bečmen

	int Location the and t	km position of		Dimensions					
Service point		the beginning and the end of platform		Length (m)	Height (m)	Width (m)			
1	2	3	4	5	6	7			
SURČIN	NONE								
	'								

^{413. (}Belgrade spoljna) - km 2+290 junction points — Sugar factory- traffic suspended



^{*} not intended for handling of passengers

^{**} The lines on the territory of Kosovo and Metohija are temporarily under the supervision of UNMIK, according to the Temporary Agreement between ŽTP Belgrade and UNMIK railways, dated May 31, 2002 (records No 300/2002 - 153 dated May 31, 2002).

Appendix 9 Method for calculation of electricity consumption for train traction

Compensation for calculation of electricity consumption for train traction is determined as follows:

$Csv/brtkm = \frac{MES.RA\check{C} - TRO_{\check{s}.INF}}{BRTKMter + K * BRTKMput}$

where:

Csv/brtkm – monthly rate of electric energy spent for train traction, expressed in RSD per grosstonne km.

MES.RAČ – monthly bill amount for high voltage electric energy issued by electric energy supplier.

TROŠ.INF – monthly expenses for electric energy for train traction need used by "Infrastruktura železnice Srbije"

BRTKMter – total (all railway undertakings) monthly freight transport expressed in gross-tonne km.

K – coefficient by means of which is taken into consideration that passenger trains consume more electric energy per gross-tonne km than freight trains.

BRTKMput – total (all railway undertakings) monthly passenger transport expressed in gross-tonne km.

The compensation amount per individual RU is calculated by multiplication of monthly rate of electrical energy for train traction with gross-tonne kilometers realized by the respective RU (BRTKMter for freight service, and K* BRTKMput for passenger service):

Ntern = Csv/btkm * BRTKMtern for freight service, i.e

Nputn = Csv/btkm * K * BRTKMputn for passenger service,

where:

Ntern – compensation paid by x RU in freight service for the consumption of electrical traction, expressed in RSD.

BRTKMtern – gross-tonne kilometres realized by x RU in freight service in the given month.

Nputn - compensation paid by x RU in passenger service for the consumption of electrical traction, expressed in RSD.

BRTKMputn - gross-tonne kilometres realized by x RU in passenger service in the given month.

The compensation is paid to Infrastructure Manager on a monthly basis, based on the issued bill.

K coefficient values are as follows:

month	I	II	Ш	IV	V	VI	VII	VIII	IX	X	XI	XII
K	2	1,8	1,7	1,5	1,35	1,4	1,4	1,4	1,35	1,5	1,7	1,9



Appendix 10 Railway node boundaries

NODE	Border station (service point) of the node	Chainage of the station (service point)	Entry signal from the direction	Railway line	Chainage of mandatory signal	Distance [m]
SUBOTICA BELGRADE	Batajnica	20+700	Nova Pazova	Belgrade - Stara Pazova- Šid - state border- (Tovarnik)	21+410	710
	Ovča	12+555 / 12+653	Pančevo glavna	Belgrade Center – Pančevo Gl Vršac - state border- (Stamora Moravita)	13+550 / 13+647	995
	Jajince	10+988	Beli Potok (Mala Krsna)	(Belgrade) - Rakovica - Jajinci – Mala Krsna – Velika Plana	12+045	1057
	Resnik	14+059	Pinosava (Mladenovac)	Belgrade - Mladenovac - Niš - Preševo- state border- (Tabanovce)	14+848	789
	Resnik	0+000	Bela Reka (Valjevo)	Main: (Belgrade) - Resnik - Požega - Vrbnica - state border- (Bijepo Polje)	0+825	825
	Naumovićevo	167+180	Žednik (Vrbas)	(Belgrade) - Stara Pazova- Novi Sad - Subotica - state border- (Kelebia)	166+376	804
	Palić	7+657	Bački vinogradi (Horgoš)	Subotica - Horgoš - state border- (Roszke)	8+549	892
	Subotica	76+685	Orom (Senta)	Banatsko Miloševo - Senta - Subotica	75+016	1669
	Subotica freight	75+861	Orom (Senta)	Banatsko Miloševo - Senta - Subotica	75+016	845
	Šebešić	123+761	Tavankut (Sombor)	Subotica - Bogojevo - state border- (Erdut)	122+915	846
LAPOVO NOVI SAD	Sajlovo junction and junction point	3+595	Futog (Bogojevo)	Novi Sad - Odžaci - Bogojevo	3+890	295
	Sajlovo junction and junction point	81+635	Kisač (Vrbas)	(Belgrade) - Stara Pazova- Novi Sad - Subotica - state border- (Kelebia)	82+007	372
	Sajlovo junction and junction point	3+595	Rimski Šančevi (Orlovat)	(Novi Sad) - Sajlovo junction - Rimski Šančevi – Orlovat Stop	3+959	364
	Petrovaradin	71+897	Sremski Karlovci (Inđija)	(Belgrade) - Stara Pazova- Novi Sad - Subotica - state border- (Kelebia)	71+109	788
	Lapovo varoš	Lapovo varoš 106+302		Belgrade - Mladenovac - Niš - Preševo- state border- (Tabanovce)	105+710	592
	Lapovo	109+597	(Velika Plana) Bagrdan (Stalać)	Belgrade - Mladenovac - Niš - Preševo- state border- (Tabanovce)	110+540	943
LA	Batočina	3+405	Badnjevac (Kragujevac)	Lapovo - Kraljevo - Lešak – Kosovo Polje – Đeneral Janković - state border- (Volkovo)	4+419	1014
NIŠ	Trupale	234+939	Grejač (Stalać)	Belgrade - Mladenovac - Niš - Preševo- state border- (Tabanovce)	233+934	1005
	Crveni Krst	0+000	Matejevac (Zaječar)	Crveni krst - Zaječar – Prahovo port	(0+957=3+455) 3+736	1238
	Međurovo	249+462	Doljevac	Belgrade - Mladenovac - Niš - Preševo- state border- (Tabanovce)	250+323	861
	Ćele Kula	5+461	Niška Banja (Pirot)	Niš - Dimitrovgrad - state border- (Dragoman)	6+320	859
0/	Pančevo glavna	16+069	Ovča (Beograd)	Belgrade Center – Pančevo Gl Vršac - state border- (Stamora Moravita)	14+878	1191
PANČEVO	Pančevo varoš	18+206	Banatsko Novo Selo (Vršac)	Belgrade Center – Pančevo Gl Vršac - state border- (Stamora Moravita)	19+242	1036
PA	Open line junction 2a 17+659		Jabuka (Zrenjanin)	Pančevo Gl Zrenjanin - Kikinda - state border- (Jimbolia)	18+160	501

