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DESIGN OF RECONSTRUCTION OF BUILDINGS AND STRUCTURES

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Abstract

The documents of the design board include: the layout and development scheme of the national economy and industries, the layout and development schemes of production forces according to economic districts, for the overhaul of large and complex enterprises, a technical-economic basis or technical-economic calculation, which justifies the economic feasibility of economic need and economic feasibility.

Keywords: project, document, hojalig, industry, network, scheme, complex, enterprise, object.

Planning for the overhaul of facilities, design documentation includes: the layout and development scheme of the national economy and industrial sectors, the layout and development schemes of production forces according to economic districts, for the overhaul of large and complex enterprises, a technical-economic basis or technical-economic calculation, which justifies the economic feasibility of economic need and economic feasibility. Complex enterprises deb-the production process is told to enterprises where new, dissimilar technologies are used, located in seismic districts, in complex geological or hydrogeological conditions. In the process of their renovation, new construction structures or new construction technologies are used.

Schemes for each network are developed by the ministries of the network and approved by the Cabinet of Ministers.

The main sections of network schemes include:

- \checkmark state of modern development of the network and location analysis of the network;
- \checkmark the main conditions and factors of the location of the network and prospects for development;
- ✓ promising concepts and options for network development and location;
- ✓ determination of the optimal option of network development and location;
- \checkmark project calculations of the repair and construction of enterprises and structures.

The technical and economic basis (TIA) is a document that received planning and received design, fulfilling the task of developing and complementing decisions in the approved scheme.

The main sections of the TIA include:

- 1. Initial data;
- 2. Production capacity (volume of production), nomenclature, specialization of the enterprise and its involvement in other enterprises.
- 3. The level of supply of the enterprise with raw materials, materials, energy resources, fuel, water and working Resources.
- 4. The organization of the main technological solutions, the structure of the enterprise, the production process and management.

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- 5. Basic solutions in construction and its organization.
- 6. Environmental Protection.
- 7. The estimated cost of construction.
- 8. Construction and manufacturing economy.
- 9. Conclusions and suggestions.
- 10. Applications: master plan scheme, gabarite dimensions of the largest and most complex buildings, total cost of construction, cost overview.

The main technical and economic indicators (TIC) are the naming and location of the Enterprise, the type of construction (expansion, repair, technical re-equipment) and the turn, the production capacity of the enterprise: indicators of value and number, the total number of workers, labor productivity, the accounting value of repair work, the intended periods of repair, the self-justification period of capital investments, the

The repair work of the operating enterprise is designed based on the approved TIA or Tik. In this case, the contractor must be agreed with the organization and the approved accounting value of the construction in TIA (TIK)should not increase during the design.

The procedure for the development, coordination and approval of project-estimate documentation for repair work is presented in the document QMQ 1.02.01-98 "construction of enterprises, buildings and structures".

Exemplary project documentation is developed and coordinated based on SN 227-82 "instructional po tipovomu proektirovaniyu". The general procedure for the formation and coordination of the project for organizing work in the overhaul of the operating enterprise is presented in the instructions of the State Committee for construction and the ShNK 3.01.01-03 "Organization of construction production" [3].

It is strictly forbidden to carry out construction and installation work without an approved plan of retrofitting. During the construction process, restrictions on decisions made in the retrofit project and approved solutions are not allowed without the permission of the organization that developed and approved them.

The project for the organization of restoration of facilities will be developed in relation to the volume of all restoration work envisaged in the Working Project. The reconstruction organization Project includes the following departments:

- 1. A complete description of the enterprise for which restoration is required.
- 2. General description of the construction site (dense location of objects in the field, location of Engineering Communications, the presence of traffic lanes, hydrogeological and climatic conditions).
- 3. Description of objects being renovated (volumetric-plan and constructive solutions, functional descriptions).
- 4. Calendar plan for conducting construction.
- 5. Construction head for the preparatory and main periods of restoration work.
- 6. Coordination of the production process of the enterprise with repair work.
- 7. Measures to ensure the safety of construction organizations and the enterprise in connection with the features of the existing production process of its workers.

Also, if the object being repaired belongs to the category of complex objects, the following additional sections are included:

8. Scaled complex lattice graph;

- 9. Measures to ensure quality and strength in the construction of new facilities.
- 10. Geodesic provision of construction (in which the basis of geodesic planning includes information about the peculiarities of construction and methods of geodesic control).
- 11. Solutions for the organization of communication and operational-dispatch management (location and technical support of management services provide dispatch work, provide radio communication of interacting departments, etc.k.).

To the main technical and economic indicators of repair work:

- 1. The full estimate cost of construction, including equipment and construction and installation work.
- 2. The total duration of repair, including the period of preparation and equipment installation.
- 3. Maximum number of workers.
- 4. Labor consumption required for construction and installation work.

These indicators are presented in the text part of the explanatory letter and reflect all the necessary calculations, drawings and other materials.

The project for maintaining the reconstruction of construction facilities is a document of a mandatory nature, without which it is not allowed to start preparatory and construction and installation work.

It includes: an explanatory note; a calendar plan of reconstruction work; - the General History of construction; - graphs and vedomosts of conveyance and expenditure of raw materials; - technological Maps; - project-technological documentation of the safe implementation of individual processes; - project-structural documentation of individual nodes, details, structures, technological devices and materials of the construction part associated with the implementation of works;

For the project of carrying out the reconstruction of construction facilities, the Bolang information is provided by:

- \checkmark project for the organization of repair work;
- \checkmark results of the preliminary examination from the design;
- ✓ working project ;
- ✓ estimates;
- \checkmark conditions for providing various raw materials.

When developing a project for the reconstruction of construction facilities, the results of the technical inspection of the premises of the enterprise are considered important information. It is used for the construction of technological flows, installation and fastening of technological devices, temporary construction and communications, placement and installation of special construction technological transport (conveyors, pipes, monorails).

To develop calendar plans, it is necessary to take into account the fact that when determining the cost and duration of labor, it is necessary to use consolidated norms. This is due to the density of the area where work is carried out, the narrowness of the working places, the need for additional processes in order to ensure safety in the process of carrying out work. The productivity of machines and mechanisms working indoors decreases due to the narrowness of the scale of work and forced, unemployed parking.

The development of a construction head tarx is important when performing repair work. The main Tarh will display all existing and demolition, regeneration and strengthening buildings and structures; traffic lanes should be allocated for workers up to all production zones and within operating tsexs, as well as working time intervals from these lanes will be developed in accordance with safety requirements.

The explanatory note of the repair mud will also consider such issues as the description of the main technological processes before and after repair, as well as the improvement of the network and

communications associated with it, the increase in loads falling on carrying and carrying equipment, construction structures.

Literature

- 1. MAMUROVA, FERUZA ISLOMOVNA. "FACTORS OF FORMATION OF PROFESSIONAL COMPETENCE IN THE CONTEXT OF INFORMATION EDUCATION." THEORETICAL & APPLIED SCIENCE Учредители: Теоретическая и прикладная наука 9 (2021): 538-541.
- 2. Mamurova, F. I., Khodzhaeva, N. S., & Kadirova, E. V. (2023). Pedagogy of Technology and its University. Innovative Science in Modern Research, 22-24.
- 3. Kodirova, E. V., & Mamurova, F. I. (2023). Modern Methods of Teaching Information Technologies at the Lesson of Computer Science. Pioneer: Journal of Advanced Research and Scientific Progress, 2(3), 86-89.
- Mamurova, F. I., Khadjaeva, N. S., & Kadirova, E. V. (2023). ROLE AND APPLICATION OF COMPUTER GRAPHICS. Innovative Society: Problems, Analysis and Development Prospects, 1-3.
- Mamurova, F. I. (2022, December). IMPROVING THE PROFESSIONAL COMPETENCE OF FUTURE ENGINEERS AND BUILDERS. In INTERNATIONAL SCIENTIFIC CONFERENCE" INNOVATIVE TRENDS IN SCIENCE, PRACTICE AND EDUCATION" (Vol. 1, No. 4, pp. 97-101).
- 6. Mamurova, F. I. (2021). PROBLEMS OF THEORETICAL STUDY OF PROFESSIONAL COMPETENCE OF CONSTRUCTION ENGINEERS. Таълим ва инновацион тадқиқотлар, (4), 104-108.
- 7. Mamurova, F. I., & Alimov, F. H. (2022). Surface Formation and its Assignment on the Monge Plot. Web of Scholars: Multidimensional Research Journal, 1(8), 28-31.
- 8. Odilbekovich, S. K., & Islomovna, M. F. (2023). Technology of Work on the Replacement of Contaminated Ballast below the Sole of Sleepers. New Scientific Trends and Challenges, 1, 21-24.
- 9. Odilbekovich, S. K., & Islomovna, M. F. (2023, January). Facilities and Devices of the Yale Farm. In Interdisciplinary Conference of Young Scholars in Social Sciences (pp. 21-23).
- Raximov, S. D., and S. S. Sodiqov. "TEXNIK SOHA MUTAXASSISLARI O 'QUV FANLARINI O 'QITISH TAYYORGARLIK JARAYONIDA C++ DASTURIDAN FOYDALANISH ZARURATI." INTERNATIONAL CONFERENCE: PROBLEMS AND SCIENTIFIC SOLUTIONS.. Vol. 1. No. 7. 2022.
- 11. Mamurova, F., & Yuldashev, J. (2020). METHODS OF FORMING STUDENTS'INTELLECTUAL CAPACITY. Экономика и социум, (4), 66-68.
- 12. Islomovna, M. F., Islom, M., & Absolomovich, K. X. (2023). Projections of a Straight Line, the Actual Size of the Segment and the Angles of its Inclination to the Planes of Projections. Miasto Przyszłości, 31, 140-143.
- Mamurova, F. I. (2022, December). IMPROVING THE PROFESSIONAL COMPETENCE OF FUTURE ENGINEERS AND BUILDERS. In INTERNATIONAL SCIENTIFIC CONFERENCE" INNOVATIVE TRENDS IN SCIENCE, PRACTICE AND EDUCATION" (Vol. 1, No. 4, pp. 97-101).
- 14. Islomovna, M. F. (2022). Success in Mastering the Subjects of Future Professional Competence. EUROPEAN JOURNAL OF INNOVATION IN NONFORMAL EDUCATION, 2(5), 224-226.
- 15. МАМУРОВА, Ф. КОМПЕТЕНТЛИ ЁНДАШУВ ТАЪЛИМ ОЛУВЧИНИНГ КАСБИЙ СИФАТЛАРИНИ ШАКЛЛАНТИРИШ. PEDAGOGIK MAHORAT, 152.

- 16. Shaumarov, S., Kandakhorov, S., & Mamurova, F. (2022, June). Optimization of the effect of absolute humidity on the thermal properties of non-autoclaved aerated concrete based on industrial waste. In AIP Conference Proceedings (Vol. 2432, No. 1, p. 030086). AIP Publishing LLC.
- 17. Pirnazarov, G. F., Mamurova, F. I., & Mamurova, D. I. (2022). Calculation of Flat Ram by the Method of Displacement. EUROPEAN JOURNAL OF INNOVATION IN NONFORMAL EDUCATION, 2(4), 35-39.
- 18. Mamurova, F. I. (2021). The Concept of Education in the Training of Future Engineers. International Journal on Orange Technologies, 3(3), 140-142.
- 19. Islomovna, M. F. (2023). Methods of Fastening the Elements of the Node. EUROPEAN JOURNAL OF INNOVATION IN NONFORMAL EDUCATION, 3(3), 40-44.
- 20. Islomovna, M. F. (2023). Engineering Computer Graphics Drawing Up and Reading Plot Drawings. New Scientific Trends and Challenges, 120-122.
- 21. Raximov, S. D., and S. S. Sodiqov. "TEXNIK SOHA MUTAXASSISLARI O 'QUV FANLARINI O 'QITISH TAYYORGARLIK JARAYONIDA C++ DASTURIDAN FOYDALANISH ZARURATI." INTERNATIONAL CONFERENCE: PROBLEMS AND SCIENTIFIC SOLUTIONS.. Vol. 1. No. 7. 2022.
- 22. Khodjayeva, N., & Sodikov, S. (2023). Methods and Advantages of Using Cloud Technologies in Practical Lessons. Pioneer: Journal of Advanced Research and Scientific Progress, 2(3), 77-82.
- 23. Babakhanova, N. U. (2019). FEATURES OF ACCOUNTING IN RAILWAY TRANSPORT AND ITS PRIORITIES FOR ITS DEVELOPMENT. In WORLD SCIENCE: PROBLEMS AND INNOVATIONS (pp. 33-35).
- 24. Mamurova, F. I., & Alimov, F. H. (2023). Sections in Engineering Graphics in Drawings. Pioneer: Journal of Advanced Research and Scientific Progress, 2(3), 107-110.
- 25. Халимова, Ш. Р., Мамурова Ф. Я. (2023). Изометрическое и диметрическое представление окружностей и прямоугольников. Miasto Przyszłości , 33 , 128-134.