

Project name, IRN	IRN DP23691515 "Organization of production of ferronickel from poor ores and concentrates"
Completion date	29.09.2024-31.12.2026 yy.
Project supervisor	Turebekov Erkebulan
Report	<p>Scientific and technical activities aimed at commercialization of commercial ferronickel are an innovative result of using waste catalysts and poor ores with cheaper production technology. RSSTA for commercialization is aimed at solving the problem of import substitution for Kazakhstani enterprises. Local enterprises can meet their needs for ferronickel without having to depend on imported supplies, which helps to strengthen economic sustainability. Also, the developed product provides an opportunity for export to European countries under sanctions, providing an alternative to Russian producers of commercial ferronickel. This not only expands the sales market, but also strengthens Kazakhstan's position in world trade.</p> <p>Thus, the results of scientific and technical activities are a comprehensive solution that combines environmental sustainability, economic benefits for local enterprises and the possibility of expanding the export market under global sanctions, as well as the development of domestic production.</p>
Purpose	The aim of the project is to organize a new production of ferronickel from poor ores, concentrates and waste
Expected results	<ol style="list-style-type: none"> 1. Creation of a metallurgical workshop for the production of ferronickel, since at the moment there are no such production facilities in the territory of the Republic of Kazakhstan, which also allows for efficient and reliable production to meet market demand both on the domestic and foreign markets. 2. Solving environmental problems, waste from production and household waste. 3. Creation of new jobs for up to 60 people in the field of metallurgy. 4. Creation of a scientific laboratory for the Department of Metallurgy on the basis of the Zhubanov ARU, which will contribute to the development of non-ferrous metallurgy in the Republic of Kazakhstan. 5. Reducing the cost of ferronickel smelting technology through the use of low-grade ores and waste. 6. Import substitution and increasing the export potential of the Republic of Kazakhstan. 7. Obtaining a patent for the technology of producing ferronickel from low-grade ore, concentrates and waste

Project group	<p>Head: Turebekov Erkebulan. UTM Johor Bahru Bachelor's Diploma No. 2012D-001209.</p> <p>Shabanov Erbol – PhD, assoc. professor, h-index h=5 (Author ID in Scopus – 56346154800; Researcher ID - Web of Science: N-6576-2017; ORCID - 0000-0001-6902-1211). https://www.scopus.com/authid/detail.uri?authorId=36015400300</p> <p>Zhumagaliev Erlan - Ph.D., assoc. professor, h-index h=5 (Author ID in Scopus – 57214124154; Researcher ID - Web of Science: AAU-5212-2020; ORCID - 0000-0003-2227-0661)</p> <p>Ulanova Dinara – Master</p> <p>Kazanbaev Azamat – Commercialization Specialist</p>
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