


کد سند: RO-S-F-27-04	معاونت پژوهشی	
تاریخ صدور: ۱۳۹۹/۰۴/۲۲	فرم خلاصه فارسی طرح / پروژه	
تاریخ ویرایش: ۱۴۰۰/۰۳/۲۵		

**Project Title:**

Technical development of power plants rotors repair

<b>Department:</b>	Metallurgy	<b>Project Manager:</b>	Mohammadreza Jahangiri
<b>Employer:</b>	Niroo Research Institute	<b>Project Code:</b>	PMTPN39


**Project Staff:** P. Shams

**Project Summary:**

One of the major differences between developed and underdeveloped countries is in how they approach and deal with future problems. Advanced countries, based on the strategic planning and available resources, consider different scenarios for the future of their country and try to come up with a well-planned program with the highest cost-benefit ratio. In the undeveloped countries, however, either no such strategic plans are made for the future or, at best, they see their future in pursuit of the full policy of the developed countries. Obviously, the choice of such policies will lead to many problems in the near and far future of these countries and will confuse the people and the government and eliminate the resources and potential of the country over time.

The power industry is one of the decisive/important industries in the country that neglecting its future will not only affect the well-being of the people, but can even seriously disrupt people's daily lives. Therefore, it is essential to consider the various technical and social issues of this industry. One of the most important technical fields related to this industry is the metallurgical engineering field. Given the importance of metallurgical engineering activities in the future of our country's power industry, it is necessary to develop a roadmap for further research in this field of engineering.

To this end, the present project has been performed to develop a roadmap for the future activities of the Metallurgy Research Group in NRI.

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### Project Results:

- Identification and classification of various materials, alloys and manufacturing, repair and optimization process of electrical industry metallic parts.
- Determining the most important research and management projects related to metallurgical engineering in electrical industry.
- Determining short-term and medium-term research priorities and the required cost and time for implementation.
- Development of a comprehensive document (roadmap) for short-term and long-term activities of the Metallurgical Research Group in NRI.

### Project Documentation:

- “Determining and compilation of the basics/fundamentals of the roadmap of the Metallurgical Research Group Niroo Research Institute”, Metallurgy Department, Vice president for research, NRI.
- “Investigating the potential applications of metallurgical engineering in the electrical industry”, Metallurgy Department, Vice president for research, NRI.
- “Development of strategic elements of the roadmap of the Metallurgical Research Group”, Metallurgy Department, Vice president for research, NRI.
- “Development of Metallurgical Research Group roadmap”, Metallurgy Department, Vice president for research, NRI.