



Project Data Sheet

Project 54031-001

Project Name	Science, Technology, Engineering and Mathematics in Secondary Education Project
Project Number	54031-001
Country / Economy	Uzbekistan
Project Status	Proposed
Project Type / Modality of Assistance	Loan
Source of Funding / Amount	Loan: Secondary Education Investment in STEM Project Concessional ordinary capital resources lending US\$ 100.00 million
Operational Priorities	OP1: Addressing remaining poverty and reducing inequalities OP3: Tackling climate change, building climate and disaster resilience, and enhancing environmental sustainability
Sector / Subsector	Education / Education sector development - Secondary
Gender	Gender equity theme
Description	<p>1. Output 1: Quality of STEM education with support of technology improved. This output will support (i) pilot testing of interdisciplinary STEM classes for grades 5-11, (ii) strengthening curriculum of STEM subjects (physics, chemistry, biology, geography, informatics and mathematics) with EdTech, (iii) upgrading e-platforms for providing pre- and in-service teacher training, (iv) updating national assessment on STEM subjects aligned with the competency-based curriculum standards, (v) improving school-based assessment in STEM subjects, (vi) designing and implementing a special arrangement of recruitment and placement of additional STEM teachers, (viii) designing and mobilizing an incentive scheme for increased girls enrollment in STEM subjects, and (viii) strengthening e-learning and training platform such as Maktab.uz.</p> <p>2. Output 2: Learning environments improved. This output will support (i) upgrading, science laboratories and ICT facilities in 200 schools and pre- and in-service teacher training institutes; (ii) rehabilitating selected schools with energy efficient, disaster resilient features, and with improved WASH facilities; (ii) upgrading teaching and learning equipment and (iii) strengthening internet connection in the schools.</p> <p>3. Output 3: Sector management strengthened with expanded partnership. This output will support (i) establishing STEM center with private sector engagement, and developing operational mechanism with the private sector, the academe and civil society organizations in promoting STEM in secondary education, (ii) developing the STEM network where the 200 specialized schools support disadvantaged schools in each district, (iii) strengthening the Public Education Management Information System, and (iv) mainstreaming e-procurement and e-financial management.</p>

Project Rationale and Linkage to Country/Regional Strategy	Uzbekistan has achieved high school enrollment rates. The 2020 school gross enrollment reached 97% for secondary level with gender parity. Despite good enrollment, the overall learning achievement appears to be low, especially in the critical thinking and problem-solving domains. Learning outcome achievement in primary education is worrisome with more than a third of students scoring below minimum standard in reading, mathematics, and science. Furthermore, a significant gap in learning outcome exists between urban and rural schools, and within and among individual schools. Recent qualitative studies indicate similarly low achievement and school quality in the secondary level grades, particularly among science, mathematics, and informatics, especially in rural areas.
Impact	Human capital strengthened for increasing the level of country's competitiveness
Outcome	Secondary education students equipped with relevant skills that enable them to succeed in a technology driven, knowledge-based economy
Outputs	Quality of learning and teaching in STEM education with support of technology improved
Geographical Location	Nation-wide

Safeguard Categories

Environment	C
Involuntary Resettlement	C
Indigenous Peoples	C

Summary of Environmental and Social Aspects

Environmental Aspects
Involuntary Resettlement
Indigenous Peoples

Stakeholder Communication, Participation, and Consultation

During Project Design	
During Project Implementation	
Responsible ADB Officer	Tajima, Eisuke
Responsible ADB Department	Central and West Asia Department
Responsible ADB Division	CWSS
Executing Agencies	<i>Ministry of Public Education</i>

Timetable

Concept Clearance	29 Sep 2021
Fact Finding	15 May 2023 to 19 May 2023
MRM	06 Jul 2023
Approval	-
Last Review Mission	-

Last PDS Update 04 Oct 2021

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