Annual Project Progress Report

Project title: «Strengthening National Capacity for Seismic Risk Assessment, Prevention and

Response to Potential Earthquakes»

Award ID: 00102378 **Project ID:** 00104475

Implementing partner: Institute of seismology and physics of the atmosphere of the Academy

of Sciences of Turkmenistan

Period covered in this report: January 1 until December 31, 2023

Date of last Annual Report: January 2022

Date of the last Project Board meeting: October 26, 2022

Date of last Qaulity Assurance and rating: December 22, 2023 Implementation: Satisfactory

1. Project Performance

Please state the expected Output of the Project, set indicators and corresponding CP Outcome (as per project document/AWP):

Project Output 1: Comprehensive assessment of seismic risks in Ashgabat conducted

Output indicators 1.1: Quantity of methodological recommendations and proposals for approbation of some modern methods of seismic microzoning and assessment of vulnerability of buildings

Output indicators 1.2: Quantity of developed seismic maps of different levels of zoning and directionality (updated) for the city of Ashgabat

Output indicators 1.3: Quantity of geospatial models of earthquake susceptibility to buildings in target areas (housing stock and administrative buildings) based on building and ground characteristics

Output targets 1.1: Collection and analysis of existing methodological and data also development of detailed plan of implementation of the project in collaboration with Institute of Physics of the Earth of the Russian Academy of Sciences, the Sergeyev Institute of geoecology, Central-Asian Institute for Applied Geosciences and with national partners.

Output targets 1.2: Making practical works and seismic measurments for high-quality development of documentation regarding forecasting and monitoring of seismic events in cooperation with Central-Asian Institute for Applied Geosciences, Institute of Physics of the Earth of the Russian Academy of Sciences (including the analyze of buildings vulnerability and evaluation of sesmic risk).

Output targets 1.3: Giving support to Institute of seismology and physics of the atmosphere of the Academy of Sciences of Turkmenistan in development of new maps of microzoning and in updating of availible maps.

Output targets 1.4: Interpritation of recived information regarding results of researches, monitoring of necessary modelling (including of geospatial models of buildings are vulnerabl to

	quakes on target areas (available housing regarding complex evaluation of seismic r			. Preparation of the
b) We	re the indicators and output achieved?	Yes □	No□	Partially⊠
c) If no	o or partially, please explain why?			
1.	In accordance of the Project document the life. (At the moment, the final work on all			nile the whole project
II.	The implementation of the planned active funds from the Government and resulted November 2023		•	
are st	ct Output 2: Scientific and technical and trengthened for more effective work in quake monitoring, as well as seismic risk as	the field of s		
	ut indicators 2.1: Quantity of laboratorie sary and updated scientific and technical e		ute of seismo	ology equipped with
Output indicators 2.2: Quantity of employees of scientific research institutes, ministries and departments that have passed trainings and courses on modern methods of seismic risk assessment				
to imp	ut indicators 2.3: Quantity of scientific and prove the principles of existing disaster preprice events	_	•	
and s	ut targets 2.1: Defining paramentrs, purchatationary for Institute of seismology and ces of Turkmenistan.			
of seis	It targets 2.2: Organizing trainings for statements engineering and for specialists who we duction and in the field of reciving and quality using modern methods.	orks in relevan	nt ministries ir	the field of disaster
Output targets 2.3: Development of scientific and methodological materials for further trainigs for staff from research institutes.				
b) We	re the indicators and output achieved?	Yes □	No□	Partially ⊠
c) If no	o or partially, please explain why?			
l.	In accordance of the Project document the life. (At the moment, the final work on all	•		nile the whole project
II.	Output target 2.2: Representation of to (UNDP) Turkmenistan successfully cond Planning and Needs assessment after na people participated.	lucted a two-da	ay National T	raining on Recovery

III.	The implementation of the planned activition funds from the Government and resulted in November 2023			
	ct Output 3: Increasing the readiness level od by earthquakes	f the relevant a	gencies to resp	ond to disasters
of disa	at indicators 3.1: Quantity of developed scenariors in case of the impact of strong earthquific and methodological basis, using the experient of consequences for different time into	lakes in targete ample of a sp	ed settlements	on an improved
Output indicators 3.2: Quantity of training methods and materials for assessing the risks of earthquakes, associated risks of secondary and cascade disasters replicated and sent to local executive bodies for further use				
Output indicators 3.3: Quantity of recommendations to the Ministry of Education on the inclusion of modules to assess seismic hazard and risk in the educational process of pilot universities for the further involvement of junior personnel in scientific activities				
Outpu	ut indicators 3.4: Quantity of investment stra	itegies for DRR	at the macro	level
earthq further Outpu consid	ut targets 3.1: Development of scenarios for quakes on the targeted locality based on import dissemination to the Ministry of Defense of targets 3.2: Development of materials deration of risks and other activities for molders	roved scientific Turkmenistan a regarding ear	c and methodo and to others po thquake risks	logical basis for ublic authorities. evaluation and
evalua Outpu	ut targets 3.3: Preparation of recommendation in institutes training programs. ut targets 3.4: Development of a DRR investres of the project performance.			
b) Wer	re the indicators and output achieved?	Yes □	No □	Partially ⊠
c) If no	o or partially, please explain why?			
l.	The implementation of the results of Projection funding. However, after the tranche of the afunds, it is planned to implement the results	amount of mone	ey saved by the	
II.	The implementation of the planned activities funds from the Government and resulted in		•	

2. Progress Reporting

November 2023

Please summarize the main achievements during the project cycle:

Project Output 1: Comprehensive assessment of seismic risks in Ashgabat conducted

I. The terms of references has been prepared for international and local consultants to implement of all Output indicators.

Project Output 2: Scientific and technical and human capacities of the Institute of seismology are strengthened for more effective work in the field of seismic hazard assessment and earthquake monitoring, as well as seismic risk assessment

- I. The terms of references has been prepared for international and local consultants to implement of all Output indicators.
- II. It was composed and provided specification for further purchasing of technical equipment for the project and for Institute of seismology and physics of the atmosphere of the Academy of Sciences of Turkmenistan and all necessary tender documents have been prepared (RFQ)
- III. The English-Russian-Turkmen explanatory dictionary on geophysics, seismology and engineering-geological sciences with over 2100 terms has been prepared for publication.

Project Output 3: Increasing the readiness level of the relevant agencies to respond to disasters caused by earthquakes

I. The terms of references has been prepared for international and local consultants to implement of several Output indicators.

3. Project Risks and Issues

The project Risk Log is maintained throughout the project implementation to capture potential risks to the project and associated measures to mitigate risk. The Project Manager shall maintain and update the Risk Log and ensure that risks are identified, communicated and managed effectively.

A number of potential risks are listed below.

Description of risk	Type and category	Risk management actions	Current situation
Some of the activities planned in the AWP may go beyond the project end date of June 30, 2024.	Operational	Accelerate UNDP internal processes. (e.g.:recruitment of national and international consultant, procurement processes). Seek Project extension from the National Partners until the end of 2024	
Reduced government funding may lead to partial achievement of the Projet Output 3	Financial, operational	Closely work with the national partners to prioritise key actions and results to be achieved within the Output 3	Project analyst is in day-to-day engagement with the Sesimology Institute to prioritise Output 3 related activities

4. Lessons learned and follow-up steps (if applicable)

a) Please provide the lessons learned and further steps after the project's closure.

I. When co-operating with state authorities, it is important to bear in mind the real possibility of very long term resolution of issues. Therefore, it is necessary to work as quickly as possible. (Example tranche transfer took place on 8 December 2023 and the project was extended in April 2023). Due to specific nature of the Project activities, very often, there are lack of qualified and experienced consultants both international and national to conduct planned Project activities. In order to avoid further delays due to poor consultants market and Quantum related technical issues, Project analyst will closely work with the national partners to headhunt for required expertise.

3. Gender Equality and Women's Empowerment

Analyse and report with the support of evidence concrete results achieved and/or unachieved towards gender equality and women's empowerment during the year.

I. Representation of the United Nations Development Programme (UNDP) Turkmenistan successfully conducted a two-day National Training on Recovery Planning and Needs assessment after natural disasters on April 11-12. There are 33 people participated, including 12 women and 21 men. About 40% of the participants were women. This is an actual illustrative example of gender equality within the framework of this project.

5. Transfer of Assets or other related matter

a) Please state on any past or future transfer of assets made within the project cycle (Attach list of equipment, cooperation frameworks with beneficiaries, etc.)

 Agreement on the transfer of ownership of durable tangible assets and equipment from the UNDP representative office to Institute of seismology and physics of atmosphere of the Academy of science of Turkmenistan total amount of 52,541.00 USD (February 19, 2020)

6.Financial management

Budget item	Total approved in 2023 (in USD)	Expenses + commitments	Budget utilization in % to planned
Component 1	136,010.91	3,428.57	% 2,52
Component 2	147,486.85	2,934.86	% 1 ,99
Component 3	159,590.50	_	_
Project management	53,430.71	10,000.00	% 18,71

Total delivery in 2024	496,518.97	16,363.43	% 3,30
In % to total project budget			

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Date:		