

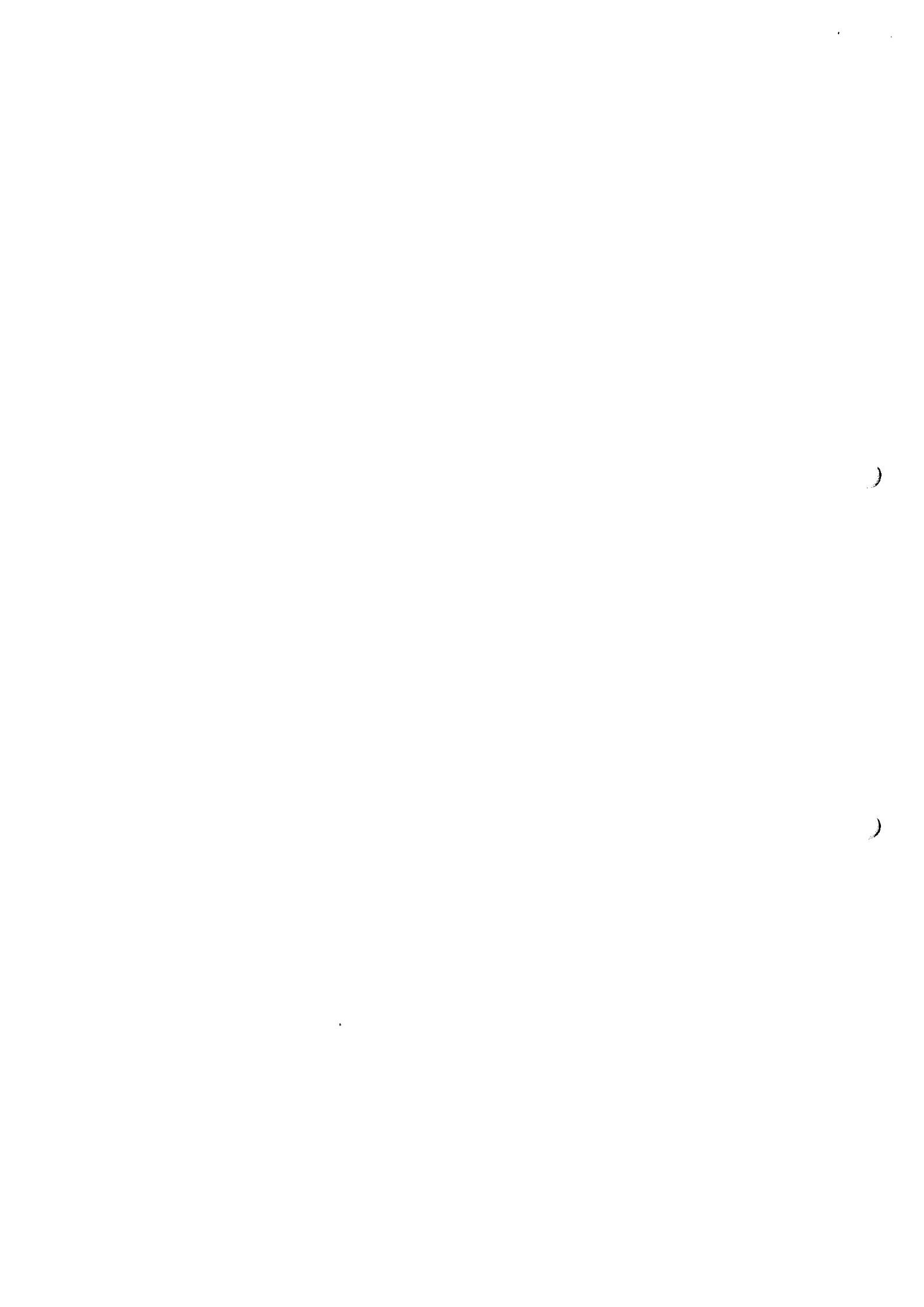
United Nations Development Programme

Country: Turkmenistan

Annual Work Plan 2017



Project Title:	Energy Efficiency and Renewable Energy for Sustainable Water Management in Turkmenistan
UN PFD Outcome(s):	<p>Outcome 5: The national policy, legislative and institutional frameworks are aligned to reduce greenhouse gas emissions through promoting sustainable practices on energy efficiency, the use of renewables, urban development and waste management.</p> <p>Outcome 6: The national policy, legislative and institutional frameworks are responsive to climate change issues by promoting climate resilience, adaptation, climate risk management and disaster risk reduction measures at sector and community levels.</p>
Expected CP Outcome Indicator(s):	<p>5.1. Number of current and new institutions that research, pilot and replicate energy efficiency initiatives for sustainable rural and urban development, and the use of renewables, urban development and waste management practices</p> <p>5.2. Number of state laws, regulations and procedures developed or amended that incorporate energy efficiency standards and practices, and the use of renewables and sustainable waste management</p> <p>6.1. Availability of solutions developed and implemented at national and subnational levels for climate change adaptation, sustainable management of natural resources and ecosystem services, as part of NAP</p> <p>6.2. Strategic Plan indicator: 1.5.Hectares of land that are managed sustainably under a conservation, sustainable use or access and benefits-sharing regime</p>
Expected Output(s):	<p>Output 5.1: Institutions and mechanisms are in place and clear on their roles in relation to coordinating, and managing the implementation of NEPAAM and promoting sustainable energy efficiency initiatives and the use of renewables.</p> <p>Output 5.2: Laws, regulations and procedures adopted that incorporate energy efficiency standards and the use of renewables</p> <p>Output 6.1: New and innovative solutions developed and piloted at national and subnational levels for climate change adaptation, sustainable land, water, coastal management and ecosystem services, and safe waste disposal as part of NEPAAM</p> <p>Output 6.2: Institutional capacities are strengthened at subnational level in adaptation/CRM planning and implementation , to promote stronger local livelihoods through sustainable use of water, land, biodiversity and coastal areas</p>
Implementing partner:	Ministry of Agriculture and Water Economy of Turkmenistan
Responsible Parties:	Ministry of Agriculture and Water Economy Ministry of Energy State Committee for Environment Protection and Land Resources Akhhal Province Administration Turkmen Agricultural University named after S.A. Niyazov Water Research and Design Institute "Turkmensuvlymytaslama"



Brief Description

The proposed UNDP-GEF project will reduce greenhouse gas emissions associated with water management, prevent and remediate salinization of lands by improving water management and reducing water consumption in the agriculture and water sector of Turkmenistan. Through technology transfer, investment, and policy reform, this project will seek to promote an integrated approach to water management that is energy and water efficient, reduces root causes of land degradation, and enhances local livelihoods and public service delivery.

Programme period:	Country Programme 2016-2020	Total allocated resources:	\$2,357,444
Project Title:	Improving Energy Efficiency in the residential Building Sector of Turkmenistan	• UNDP	\$36,635
		• GEF	\$2,320,809
Start date:	<u>01/01/2017</u>		
End date:	<u>31/12/2017</u>		



Agreed:

Ministry of Agriculture and Water Economy

Date: 07.05.2017.

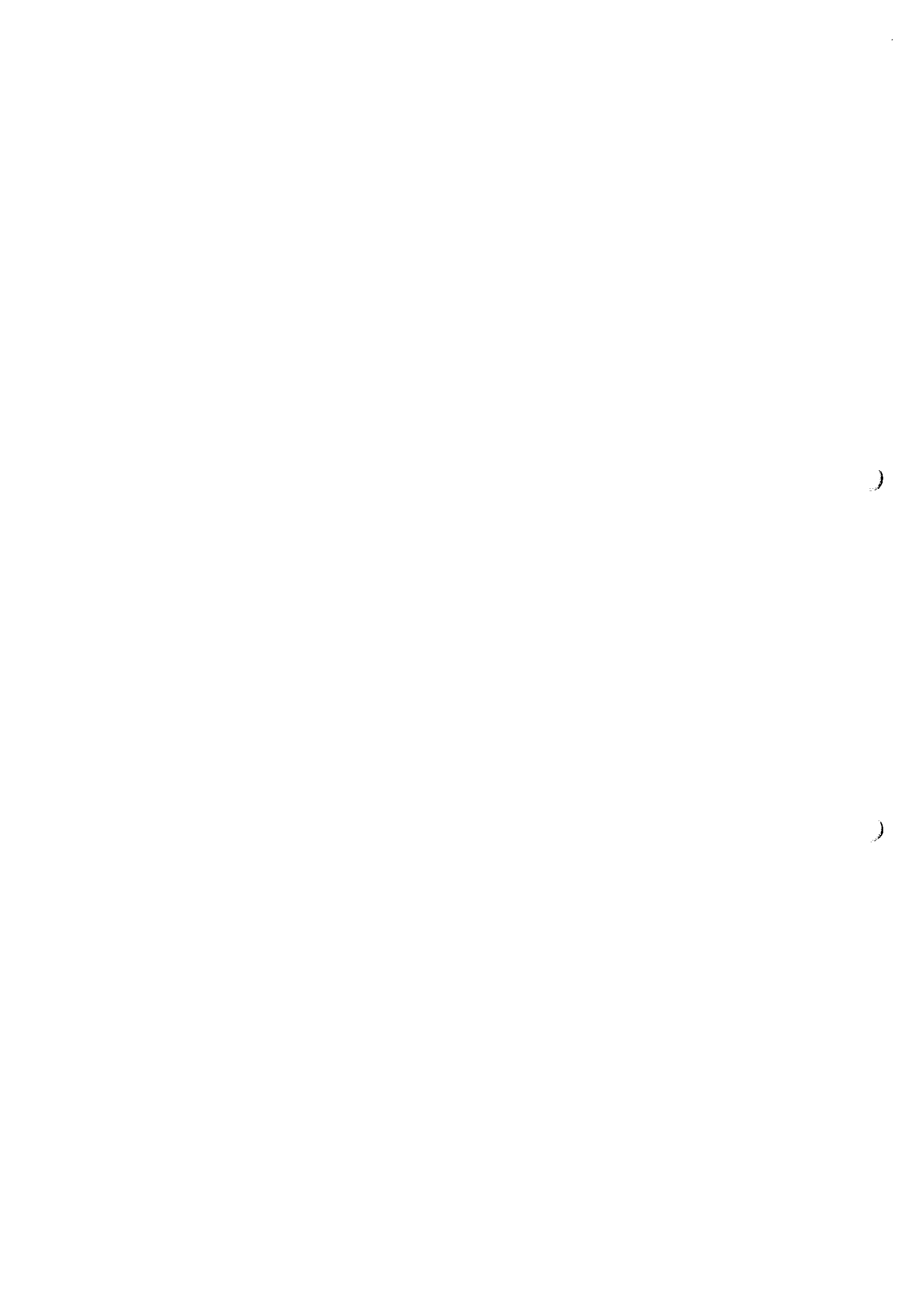
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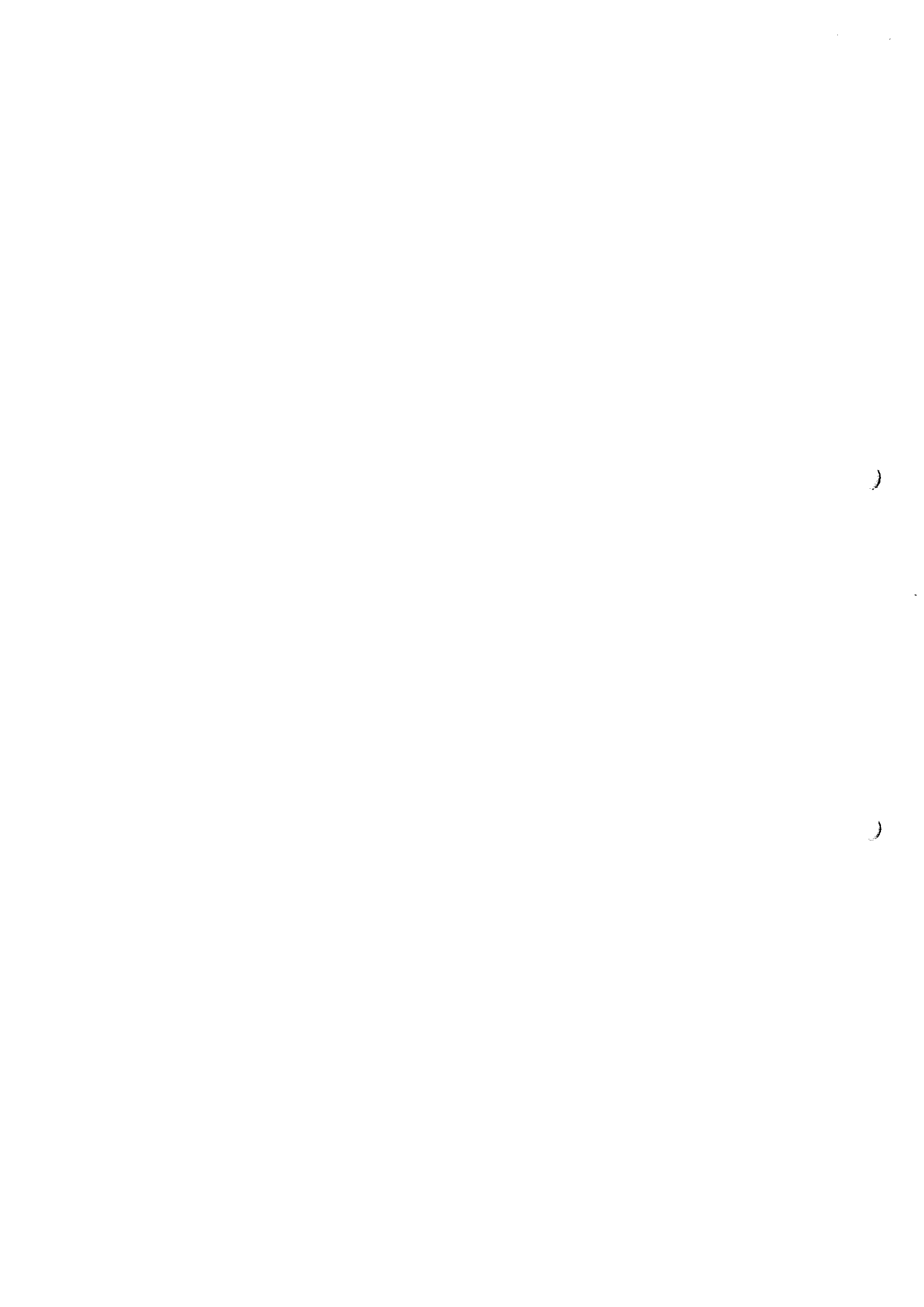
UNDP in Turkmenistan

Date: 17.03.2017

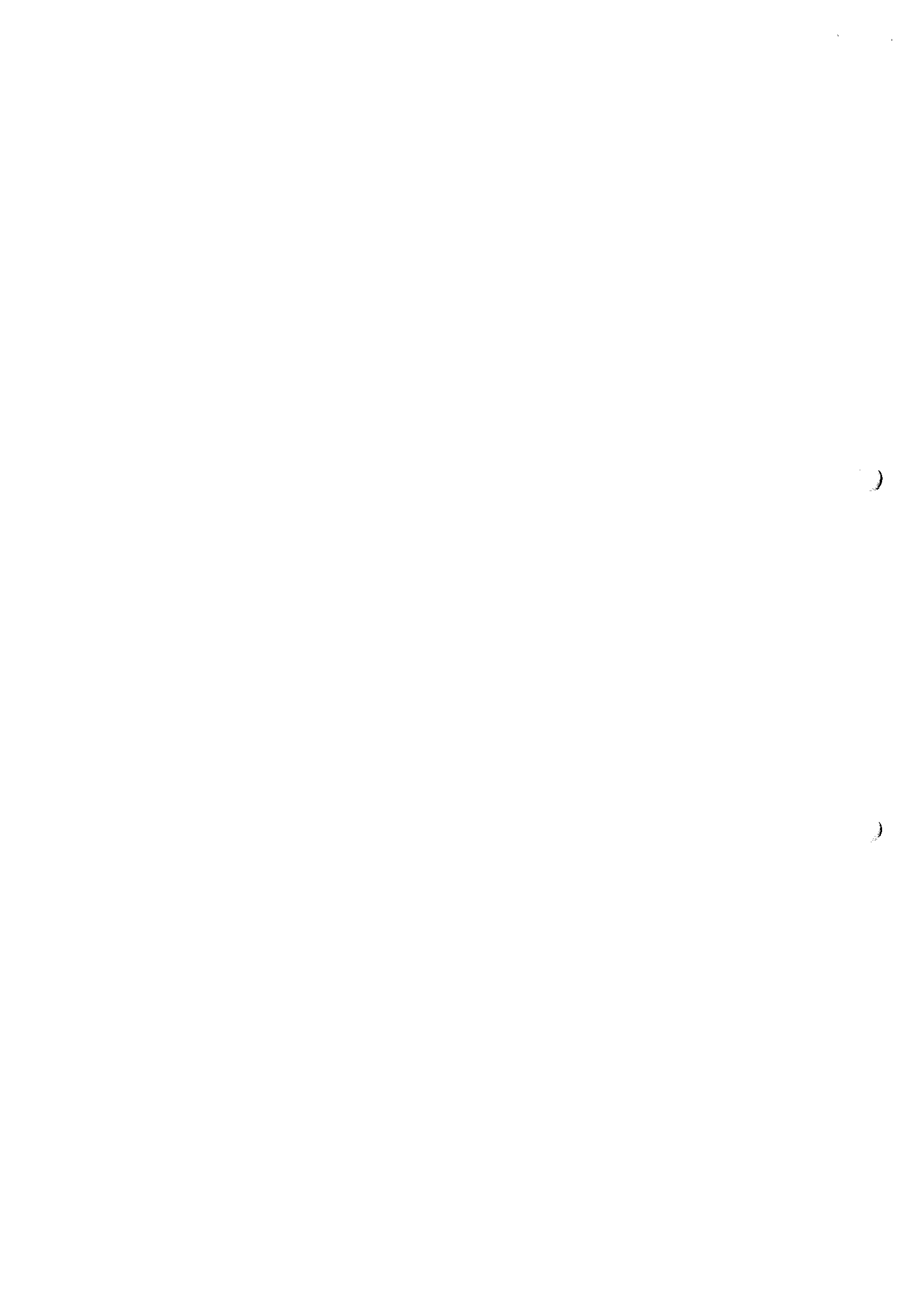




d	Herbicide treatment of collector and drainage system at the research site to prevent collector overgrowing and maintaining the entire network in good working condition																		72100 - Contracted technical services	\$4,900.00
e	Measures for mechanical clearing and maintenance in good working order of open irrigation networks at the research site																		72100 - Contracted technical services	\$4,500.00
f	Concluding agreement with the contracting company for the construction of an access gravel road from the existing gravel road along the bank of the Karakum Canal to the pilot fields at the site. Monitoring the progress of construction, completion and commissioning of the road																		72200 - Equipment	\$38,000.00
1.1.3: Distribution of land for different irrigation methods and crop planning by areas and by irrigation methods at the research site																				
a	Preparation of TOR for the National Consultant - agronomist, announcement and recruitment to work at the research site																		71300 - National consultants	\$10,000.00
b	Working meeting of the project team and scientific consultants with partners, to discuss and agree on the distribution of the planned crops by areas and by irrigation methods																		75700 - Workshops and meetings	\$990.00
c	Development of a long-term plan and the crop rotation table at the research site, coordination with partners																		IC and NC for scientific issues, NC - agronomist	
1.1.4: Preparation of land for sowing and irrigation infrastructure for the installation of water-saving irrigation systems at the research site																				
a	Performing leveling (mechanical works) at the research site (lower fields, 80 ha), including the use of laser land levelling, if necessary																		72100 - Contracted technical services	\$25,000.00
b	Measures for soil washing to remove soil salinity in the lower portion of the fields																		72100 - Contracted technical services	\$4,000.00
c	Adding relevant amendments and extension of the contract of the international consultant to monitor the quality of construction of irrigation facilities in the research area (Guy Phipps)																		71200 - International consultants	\$13,614.00
d	Monitoring the progress of construction, completion and adoption of the settling tank operation with necessary power and water supply system at the research site according to TOR																		72200 - Equipment	\$130,000.00
e	Preparation of TOR for the national building engineer for quality control and monitoring of construction and hidden works of the irrigation network (ITB); announcement or direct contract and employment on short-term basis																		71300 - National consultants	\$2,000.00
f	Preparation of the final version of TOR and the announcement of international tender for the construction of water distribution irrigation system with necessary water measuring and regulating facilities/devices to supply water to the research area of the field (furrow irrigation). The tender process and selection of a contractor company																		PM, IC for quality control, Project specialists	
g	Purchase of equipment and materials and construction of water distribution irrigation system at the research site according to the TOR of the international tender - ITB																		72200 - Equipment	\$180,000.00
h	Preparation of TOR for the guard - gardener for the research site, announcement and recruitment on the basis of a service contract																		71400 - Service contracts	\$4,715.00
i	Test run of the irrigation network, execution of necessary inspections, repair of leaks and malfunctions, acceptance from the contracting company and start-up																		PM, Project specialists	
j	Implementation of herbicide treatment of the site fields for clearing fields of reed and other weeds																		PM, UNDP	
1.1.5: Design, procurement of materials and equipment, construction works for installation of water-saving irrigation systems at the "TurkmenSuviyhtastama" Institute pilot area																				
																			72100 - Contracted technical services	\$4,900.00







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g	Preparation of TOR and RFQ to conduct a complex of survey works (Lot 1 - surveying; Lot 2 - hydrogeological studies; lot 3 - Order for preparation of the project on allocation of land for survey work) on the agreed route of the gravity water line of Kaahka town. Announcement of tender, selection of the contractor and signing of the contract						Project specialists, IC and NC DCE, PM and UNDP	72100 - Contracted technical services	\$30,000.00
h	Obtaining other necessary permits and documents for carrying out survey works (from MAWR, Turkmengeology, State Committee for Nature Protection, local authorities in Kaahka, etc.)						NC DCE and Project specialists supported by Institute, UNDP and MAWR		
i	Monitoring the progress of survey work on the agreed route of gravity water line and collection of additional data required for the design						NC DCE and hydrologist engineer supported by IC, Project specialists		
2.1.2: Preparation of project design and cost estimate for the project of gravity water line in Kaahka and approval of the project									
a	Based on the results of survey work, preparation of TOR and RFQ for the design of gravity water line in Kaahka according to the agreed route, including the project of land allocation for construction and obtaining environmental impact assessment and other necessary approvals (Ministry of Construction) and technical conditions. Announcement of tender for the design						PM, IC and NC DCE		
b	Selection of the contract company and signing of the contract for the design of water line. Monitoring of project works						PM, UNDP	72100 - Contracted technical services	\$75,000.00
c	Working meeting with the partners, local authorities and all stakeholders for consultations, discussion and approval of the project of gravity water line and necessary means; Obtaining official agreement and approval of the project for the construction of gravity water pipeline in Kaahka from the relevant government agencies (if necessary, through the Ministry of Foreign Affairs)						PM, IC and NC DCE, Project specialists, UNDP, Contractor's design engineers	75700 - Workshops and meetings	\$1,500.00
2.1.3: Procurement of needed construction and other materials and construction of gravity water line in Kaahka									
a	On the basis of the approved project, to prepare detailed TOR for the international tender (ITB); announcement of international tender (Lot 1 - purchase of needed pipes, construction and other necessary materials; Lot 2 - construction/laying of gravity water line in Kaahka town)						PM, IC and NC DCE, Project specialists, UNDP		
b	Selection of a contract company and signing the contract for purchase of pipes and construction materials (Lot 1) and construction of gravity water line in Kaahka town (Lot 2)						UNDP	72100 - Equipment	\$1,100,000.00
c	Preparation of TOR for the national building engineer for quality control and monitoring of the hidden works during delivery of pipes and building materials and construction/laying of pipes and fittings during construction of gravity water line in Kaahka by the contract company, announcement and recruitment for the period of project implementation						PM, UNDP	71300 - National consultants	\$5,714.00
d	Monitoring the supply of pipes and materials, and the progress of construction and installation works on the building/laying of gravity water line in Kaahka						Project specialists, NC DCE, Hydraulic engineer, Building engineer		
e	Annual report on the work progress and all activities on the construction of gravity water line in Kaahka, presentation of the report to PSC, MAWR and other interested partners						PM, Project specialists IC and NC		
f	Regular trips of the project teams, national consultants and representatives of the partners in Kaahka town during the survey, evaluation and construction activities, as well as to regularly measure the canal water flow						Project team	71600 - Travel	\$3,000.00
2.2.1: Introduction of innovative technologies, alternative materials and other, efficient in terms of cost, products for producing concrete pipes, slabs and other waterproofing/antifiltration materials for canals									
a	Business trips to velayats (provinces) to visit the MAWR factories producing concrete pipes and panels; field trips to the places where such pipes and panels are used						PM, Project specialists	71600 - Travel	\$3,500.00
b	Assessment of innovative technologies, alternative materials and other efficient in terms of cost products for waterproofing of canals / prevention of canals filtration, manufactured and used in practice in other countries						PM, Project specialists		
Output 2.2: Waterproofing of inter-district canals in order to reduce water losses and to reduce the soil salinity using different technologies									



		January	February	March	April	May	June	July	August	September	October	November	December				
c	Marketing research and study of the possibility of purchase of necessary equipment and production lines for the organization of production in the country														PM, Project specialists		
d	Preparation of preliminary report on the baseline conditions, existing and alternative waterproofing / antifiltration materials and products, including recommendations of the project specialists on alternative materials for pilot production														PM, Project specialists		
e	Print-out of materials, reports and other project documents														UNDP	74200 - Communications and publishing	\$1,700.00
f	PM, Project Assistant, Driver/Clerk															71400 - Contractual services	\$14,198.60
g	Project specialists															71400 - Contractual services	\$14,006.40
h	Servicing of the project vehicle															71600 - Travel services	\$500.00
i	Internet and other services of the Project office in Ashgabat (banking services)														UNDP	74200 - Communications and publishing	\$500.00
																	\$1,922,047.00

Outcome 3:
Planning and capacity building at regional and local level, plus evaluation and lessons learned

71200-International consultants	\$15,000
71300-National consultants	\$6,000
71400-Service contracts	\$9,179
71600-Trips	\$27,500
72100-Contractual technical services	\$25,000
74200-Communications and publications	\$3,500
75700-Workshops and meetings	\$2,500
Total GEF	\$88,673.00

EXPECTED INTERIM RESULTS	PLANNED ACTIVITIES	EFREME												RESPONSIBLE PARTIES	PLANNED BUDGET	Amount		
		January	February	March	April	May	June	July	August	September	October	November	December					
Output 3.1: Technological Action Plans, taking into account the SLM issues are developed and implemented at the regional and local levels	3.1.1: Study of existing experience in the field of water management planning practice and planning of the training program in order to increase the capacity (technical skills and knowledge) of national experts in the water sector Working with the partners in MAWR and the Institute "Turkmenusulymtalama" to review and examine existing policies and practices of water distribution planning and technical regulations and standards for operation of pumps (electric and diesel) Organization of the round table with the participation of experts of MAWR, Institute and Project specialists to discuss the effective use of water resources and identify topics for further training of experts in the framework of enhancing the capacity of national experts															PM, Project specialists		
Output 3.2: Direct training in pump maintenance, irrigation and other aspects of effective water management and SLM granted to local staff on the management of water resources planning and to farmers in all regions of Turkmenistan	3.2.1 Implementation of the program to enhance the capacity of national experts in the water sector on rational use and management of water resources Selection of the contractor and signing of a contract for services on implementation of a short-term training program (training tour) abroad (in Israel, Southern Spain or Morocco) within the program of capacity-building of national specialists. The purpose of the trip is the study of international experience in the field of water management practices, standards and technical regulations and operating requirements of pumps and efficiency of water use															PM, Project specialists, UNDP and National partners	75700 - Workshops and meetings	\$1,000.00
																PM, UNDP	72100 - Contracted technical services	\$25,000.00
																PM, UNDP		



c	Implementation of study tour for 4-5 experts from MAWR/Institute and Project team	UNDP and contractor company	71600 - Travel	\$27,000.00
d	Preparation of the report and presentations of the results of the study tour, lessons learned and recommendations on the methodology and practice of the effective use of water resources used in the country visited, which potentially can be applied in Turkmenistan	PM, Project specialists and trip participants		
e	Conduct of the workshop for a wide range of water sector professionals for presentation (presentation and discussion) the results and recommendations of the study tour <i>perkonowatgajiri</i>	PM, Project specialists and trip participants	75700 - Workshops and meetings	\$1,500.00
3.3.1: Evaluation and accounting of emissions and greenhouse gas reductions resulting from the implementation of pilot projects				
a	Adding relevant amendments to the TOR and the contract of international consultant on greenhouse gas emissions for basic research, calculations and determination of greenhouse gas emissions and reductions from project activities;	PM, UNDP	71200 - International consultants	\$15,000.00
b	Preparation of TOR, announcement and recruitment for amendments to the contract of the present one) of the National consultant on greenhouse gas emissions monitoring in pilot projects	PM, UNDP	71300 - National consultants	\$6,000.00
c	Collection and compilation of all collected baseline data on greenhouse gas emissions in the areas of implementation of pilot projects	IC and NC for greenhouse gas emissions		
d	Carrying out assessment and analysis of the baseline conditions and determination of levels of greenhouse gas emissions at the pilot sites/projects	IC and NC for greenhouse gas emissions		
e	Based on the methodology and monitoring plan developed by the international expert, conducting regular monitoring of greenhouse gas emissions and recording changes resulting from the implementation of pilot projects	NC for greenhouse gas emissions monitoring		
f	Preparation of the report on reduction of greenhouse gases emissions and other parameters required by GEF and submission of electronic report according to the requirements of PIR - GEF	PM, IC and NC for greenhouse gas emissions		
g	Print-out of materials, brochures and other materials	PM, UNDP	74200 - Communications and publishing	\$3,000.00
h	PM, Project Assistant, Driver/Clerk		71400 - Contractual services	\$5,671.40
i	Project specialists		71400 - Contractual services	\$3,501.60
j	Servicing of the project vehicle		71600 - Travel	\$500.00
k	Internet and other services of the Project office in Ashgabat (banking services)	PM, UNDP	74200 - Communications and publishing	\$500.00
				\$88,673.00

Outcome 4: National policy and regulatory framework established for the integrated water resources management		TIMEFRAME	PLANNED BUDGET
71200-International consultants			\$16,500
71300-National consultants			\$17,143
71400-Service contracts			\$9,173
71600-Trips			\$2,500
72100-Contractual technical services			
74200-Communications and publications			\$1,500
75700-Workshops and meetings			\$2,500
Total GEF			\$49,316.00

