#### Signature Page

Country: Turkey

# **Project Title:** ENABLING ACTIVITIES FOR THE PREPARATION OF TURKEY'S SECOND NATIONAL COMMUNICATION TO THE UNFCCC

UNDAF Outcome(s): Outcome 1: By 2010, strengthen individual and institutional capacity for both democratic and environmental governance at local and central levels.

Outcome 1.1. Increased individual collective and institutional capacity for participation at all levels of decision making.

Outcome 1.2. Mechanisms for the implementation and monitoring of international norms and standards on human rights strengthened

Outcome 1.3. Strengthened management and protection of ecosystems for sustainable development.

#### Expected CP Outcome(s):

(Those linked to the project and extracted from the CP)

UNDP will support the National Climate Change Commission by strengthening national and local capacities to formulate and implement strategies to address climate-related risks.

Expected Output(s): Output 1. National Circumstances Reviewed and Updated; Output 2. GHG Inventory Information Reviewed and Updated; Output 3. Policy and Measured Assessed and Analyzed; Output 4. GHG Projections reviewed, updated and links are identified in terms of total PaMs effects; Output 5. Review and update vulnerability assessment, climate change impacts and adaptation measures; Output 6. Review research and systematic observation completed in terms of climate change; Output 7. Financial Resources and Technology Transfer; Output 8. Review of national education, training and public awareness activities in Turkey; Output 9. Preparation of the SNC of Turkey and submission to the UNFCCC.

**Executing Entity:** 

Ministry of Environment and Forestry

Implementing Agencies:

UNDP Turkey

#### **Brief Description**

The proposed project will apply a ten-pronged approach to develop the SNC: Output 1. National Circumstances Reviewed and Updated; Output 2. GHG Inventory Information Reviewed and Updated; Output 3. Policy and Measured Assessed and Analyzed; Output 4. GHG Projections reviewed, updated and links are identified in terms of total PaMs effects; Output 5. Review and update vulnerability assessment, climate change impacts and adaptation measures; Output 6. Review research and systematic observation completed in terms of climate change; Output 7. Financial Resources and Technology Transfer; Output 8. Review of national education, training and public awareness activities in Turkey; Output 9. Preparation of the SNC of Turkey and submission to the UNFCCC. In addition, public awareness activities and stakeholder consultations will be cross-cutting along the overall course of this exercise therefore, the preparation of the Second National Communication is expected to enhance general awareness and knowledge on climate change-related issues in Turkey and help into taking them into account in the process of national planning and policy. This project will also cover the gaps that are identified during the UNFCCC In-Country Review of the First National Communication.

Programme Period:

2006 - 2010

Key Result Area (Strategic Plan)

Climate Change

Atlas Award ID:

00059382

Start date:

30 May. 2010

End Date PAC Meeting Date 30 Nov. 2011 11 Nov. 2009

Management Arrangements

NIM

Total resources

GEF

USD 500,000

In-kind contribution:

MoEF

USD 1,100,000

Agreed by Ministry of Environment and Forestry (MoEF):

Sedat KADIOGLU Deputy Undersecretary

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Agreed by (UNDP):

muca

3 1 HAV 2010

Ulrika Richardson-Golinski Deputy Resident Representative



# UNDP Project Document Format Government of Turkey

#### **United Nations Development Programme**

# ENABLING ACTIVITIES FOR THE PREPARATION OF TURKEY'S SECOND NATIONAL COMMUNICATION TO THE UNFCCC

#### **PIMS 4317**

#### **Brief description**

The proposed project will prepare the Second National Communication by delivering the outputs: Output 1. National Circumstances Reviewed and Updated; Output 2. GHG Inventory Information Reviewed and Updated; Output 3. Policy and Measures Assessed and Analyzed; Output 4. GHG Projections reviewed, updated and links are identified in terms of total PaMs effects; Output 5. Review and update vulnerability assessment, climate change impacts and adaptation measures; Output 6. Review research and systematic observation completed in terms of climate change; Output 7. Financial Resources and Technology Transfer; Output 8. Review of national education, training and public awareness activities in Turkey; Output 9. Preparation of the SNC of Turkey and submission to the UNFCCC. In addition, public awareness activities and stakeholder consultations will be crosscutting along the overall course of this exercise therefore, the preparation of the Second National Communication is expected to enhance general awareness and knowledge on climate change-related issues in Turkey and help into taking them into account in the process of national planning and policy. This project will also cover the gaps that are identified during the UNFCCC In-Country Review of the First National Communication.

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#### **Acronyms**

APF Adaptation Policy Framework

BSEP Black Sea Environment Programme

CBCC Coordination Board on Climate Change

COP Conference of Parties

DHKD Turkish Society for the Conservation of Nature

DSI State Hydraulic Works General Directorate

DSM Demand-side management

DWGR Draft Working Group Reports

EFT Environmental Foundation of Turkey

NSYDP NDP-9<sup>th</sup> Development Plan (2007-2013)

EIA Environmental Impact Assessment

EIE General Directorate of Electrical Power Resources

Survey and Development Administration

EIGM General Directorate of Energy Works

ENPEP Energy and Power Evaluation Program

EU European Union

EUAS Electricity Generation Co.
GAP Southeast Anatolia Project

GCOS Global Climate Observatory System

DGAPD General Directorate of Agricultural Production and Development

GDF General Directorate of Forestry

GDP Gross Domestic Production

Guidelines Review of the Implementation of Commitments and of Other Provisions of the Convention

UNFCCC Guidelines on Reporting and Review (FCCC/CP/1999/7)

GDRS General Directorate of Rural Services/Prime Ministry

GHG Greenhouse Gas

GNP Gross National Product

INC Initial National Communication

IPCC Intergovernmental Panel on Climate Change

IR Inception Report

LULUCF Land use, land use change and forestry

MAP Mediterranean Action Plan

MARA Ministry of Agriculture and Rural Affaires
MENR Ministry of Energy and Natural Resources

MoEF Ministry of Environment and Forestry

MoH Ministry of Health

MoIT Ministry of Industry and Trade

MoT Ministry of Transport

MPWS Ministry of Public Works and Settlement

MUSIAD Independent Industrialists' and Businessmen's Association

MW Megawatt

NAP National Action Programme for Combating Land Degradation and Desertification

NEAP National Environmental Action Plan

NC National Communication

NCSP National Communication Support Program

NGOs Non-governmental Organizations

NPC National Project Coordinator

NPD National Project Director

NRSD Turkey's National Assessment Report on Sustainable Development

For the World Summit on Sustainable Development

PaMs Policies and Measures

PM Project Manager

PSC Project Steering Committee

QA/QC Quality Assurance/Quality Control

QPRs Quarterly Progress Reports

R&DD Research and Development Department

REC Regional Environmental Center

SAA Stabilization Association Agreement

SBAA Standard Basic Assistance Agreement

SGP Small Grants Program

TurkStat Turkish Statistical Institute
TSMS State Meteorological Service

SPO State Planning Organization

TAG Technical Activity Group

TCCC Technical Committee for Climate Change

TEIAS Turkish Electricity Transmission Company

TEG Technical Expert Group

TEMA Turkish Foundation for Combating Soil Erosion, for Reforestation and the Protection of Natural

Habitats

TIS Turkish Institute of Standards

TISK Turkish Confederation of Employer Associations

AERI Research, Institute for Agricultural Economy

TL Turkish Lira

TNA Technology Needs Assessment

TOBB Turkish Union of Chambers and Commodity Exchanges

ToRs Terms of Reference

TRs Technical Reports

TUCEV Turkish Society for the Conservation of Nature

TUSIAD Turkish Businessman Association

TUGIAD Young Businessmen Association of Turkey

UNDAF United Nations Development Assistance Framework

UNDP United Nations Development Program
UNEP United Nations Environment Program

UNFCCC United Nations Framework Convention on Climate Change

V&A Vulnerability and Adaptation

WG Working Group

WCRP World Climate Research Programme

#### Part 1 – ELABORATION OF NARRATIVE

#### 1.1 Situation Analysis

- 1. Climate change is a global human development challenge which is threatening sustainability of ecosystems and brings about serious economic and social challenges for billions of people and nations around the world. Turkey is not an exception, and is a country highly vulnerable to climate change.
- 2. IPCC report makes it clear that future climate change could critically undermine efforts for sustainable development throughout the world and especially in the Mediterranean Basin. Climate change will have significant impacts on water resources which are already under high stress. Turkey is bordered by seas on three sides with 8,333 km coastal zone and 70% of industries are located at coastal zones. Turkey has exceptionally rich wetlands and biological diversity. Being an important economic and social sector in Turkey, agriculture will require special attention, since the studies show that it is one of the most vulnerable sectors to climate change.
- 3. When the UN Framework Convention on Climate Change (UNFCCC) was adopted in 1992, as an OECD member Turkey was included among the Annex I and Annex II countries which bear most of the burden of the commitments made under the agreement. Turkey acceded to UNFCCC in May 2004, following the decision taken during the 7th Conference of the Parties (COP-7) held in Marrakesh in 2001 recognizing Turkey's special circumstances in Annex I and deleting its name from Annex II. As per the Turkish Grand National Assembly's Decision (5 February 2009), Turkey is a Party to the Kyoto Protocol since 26<sup>th</sup> August 2009. However, when the Kyoto Protocol was adopted, Turkey was not in Annex-B as it was not a Party to the UNFCCC, thus it won't have any quantified emission reduction or limitation commitments until 2012.
- 4. Sustained economic growth in Turkey begun early 2000s, and the GHG emissions are growing rapidly since then. Also, Turkey does not have historical responsibility on GHG emissions accumulation in the atmosphere nor was its industrialization level comparable with that of other Annex-I countries. In this context, it is of utmost importance for Turkey to continue its sustainable economic development. Turkey's GHG emissions are expected to increase in the foreseeable future.
- 5. Turkey's level of industrialization is not yet comparable to that of OECD & UNFCCC Annex-I countries. Turkey has the lowest per capita emission and lowest cumulative emission figures amongst the OECD & UNFCCC Annex-I countries. Turkey has the lowest per capita primary energy consumption figures compared to OECD and Annex-I countries. The need for optimum use of domestic resources constitutes one of the main components of the national energy policy.
- 6. Turkey's Ninth Development Plan (2007-2013) highlights the importance of addressing climate change impacts and managing water and ecological resources in a sustainable manner. The National Rural Development strategy for Turkey (2006) also prioritizes management of natural resources, which is a key element of Turkey's strategy to overcome rural and urban disparities.
- 7. As a party to the UNFCCC, Turkey attaches importance to adapt to the impacts of climate change. Turkey with a rapidly growing economy and increasing population, has a high demand in energy. As a non-annex-B country, Turkey does not have any quantitative reduction commitments under Kyoto Protocol but comprehensive efforts in all sectors have been launched to address climate change. Therefore, various projects have been launched to address green house gas emissions on sectoral basisThe first National Inventory of Greenhouse Gas Emissions was submitted in 2006 to the UNFCCC Secretariat; the First National Communication to the UNFCCC was submitted in January 2007. The Greenhouse Gas Inventory is being prepared annually and the latest Greenhouse Gas inventory was submitted in 2008.
- 8. Consideration is now being given to the preparation of The National Climate Change Strategy and Action Plan, covering mitigation and adaptation, as called for in the 9th National Development Plan (2007-13). The National Climate Change Strategy was approved in 03 May 2010 by the High Planning Commission of State Planning Organization and preparations of the draft Action Plan is in progress with the aim that the document will be submitted to the Government of Turkey for consideration. Also, a draft nationwide

- adaptation strategy is also being prepared under the Enhancing Turkey's Capacity to Adapt to Climate Change project which will be submitted to Government of Turkey for approval.
- 9. Responsibility for climate policy development, co-ordination, and preparation of national reports under the UNFCCC is vested in MoEF, which serves as the National Focal Point for Turkey under the Convention. Other governmental entities have also been contributing to the climate change work through research, programme initiatives and communication, which are to be further expanded and elaborated as Turkey's strategy on climate change is developed and implemented. These include the State Planning Organisation, Ministry of Foreign Affairs, Ministry of Energy and Natural Resources, Ministry of Trade and Industry, Ministry of Agriculture and Rural Affairs, Ministry of Transport, Ministry of Public Works and Settlement, Ministry of Health and Turkish Statistical Institute. In 2007, the role of the Parliament was expanded with the creation of a Research Commission to evaluate the causes of climate change and the implications for Turkey.
- 10. Public participation in climate change policy and implementation is provided through an inter-ministerial Co-ordination Board on Climate Change, established in 2004, with representation from domestic NGOs, industry and academia. Turkish environmental NGOs have expressed satisfaction with the degree of their participation in preparing the National Communication on Climate Change.
- 11. Since 2002 UNDP supports Turkey in focusing assistance towards compliance with international conventions, aiming at capacity development to implement global environmental conventions primarily through UNDP/GEF (six projects).

#### 1.2 Strategy

- 12. This project is addressing one of the main issues identified in the UNDAF Outcome 1: By 2010, strengthen individual and institutional capacity for both democratic and environmental governance at local and central levels and UNDP Country Programme Document (CPD) (2006-2010), through the support of the Climate Change Coordination Board by strengthening national and local capacities to formulate and implement strategies to address climate-related risks.
- 13. The overall strategy of Turkey, as a developing country, is to make its contribution to the global efforts in combating climate change while taking into account her national capacity and special circumstances. Turkey wishes to take actively part in the negotiations for the post-2012 regime with a proper status that should reflect her socio-economic development level. In this framework, by being a party to the Kyoto Protocol Turkey positioned herself to take part of the global action to combat climate change.
- 14. The objective of the project is to assist the Republic of Turkey in implementation of obligations under UNFCCC by preparing its Second National Communication (SNC) as well as to strengthen its technical and institutional capacities to help the government fulfill its commitments to the Convention.
- 15. Completion of the INC enhanced the capacity of institutions, raised professional level of experts and decision makers, and improved the management and organization of work in the area of climate change. The preparation of the SNC will further strengthen these capacities and will also provide opportunities for additional analysis and capacity building for Turkey to participate in the post 2012 climate regime. Furthermore, technical, political, legislative, economic and institutional analysis of the relevant sectors will be completed and will provide the baseline information to develop Turkey's climate change road map for post 2012.
- 16. The project will provide links between climate change studies through the SNC process to the wider national development agenda. The analysis will also combine necessary institutional framework in order to ensure consistency and sustainability of national communication process. To ensure stakeholders involvement and endorsement, the project will be implemented through multi-stakeholder consultations. This project is also aimed to cover the gaps that are identified during the UNFCCC In-Country Review of the First National Communication.

- 17. The proposed project will apply a ten-pronged approach to develop the SNC: Output 1. National Circumstances Reviewed and Updated; Output 2. GHG Inventory Information Reviewed and Updated; Output 3. Policy and Measured Assessed and Analyzed (PaMs); Output 4. GHG Projections reviewed, updated and links are identified in terms of total PaMs effects (between 2010 and 2050); Output 5. Review and update vulnerability assessment, climate change impacts and adaptation measures, with more robust institutional and socio-economic impact assessment; Output 6. Review research and systematic observation completed in terms of climate change; Output 7. Financial Resources and Technology Transfer; Output 8. Review of national education, training and public awareness activities in Turkey; Output 9. Preparation of the SNC of Turkey and submission to the UNFCCC.
- 18. In addition, public awareness activities and stakeholder consultations will be approached as a cross-cutting issue in the different project components. Therefore, the preparation of the Second National Communication is expected to enhance general awareness and knowledge on climate change-related issues in Turkey and will help into taking them into account in the process of national planning and policy.
- 19. **Objective:** assist the Republic of Turkey in implementation of obligations under UNFCCC by preparation of Second National Communication (SNC).

20.	The objective of the	project.	will be achieved through the following outputs:

Output 1.	National Circumstances Reviewed and Updated
Output 2.	GHG Inventory Information Reviewed and Updated
Output 3.	Policy and Measured Assessed and Analyzed
Output 4.	GHG Projections reviewed, updated and links are identified in terms of total PaMs effects.
Output 5.	Review and update vulnerability assessment, climate change impacts and adaptation measures.
Output 6.	Review research and systematic observation completed in terms of climate change.
Output 7.	Financial Resources and Technology Transfer
Output 8.	Review of national education, training and public awareness activities in Turkey.
Output 9.	Preparation of the SNC of Turkey and submission to the UNFCCC.

#### 1.2.1 Gender Mainstreaming

- 21. As predicted by the Intergovernmental Panel on Climate Change (IPCC), "climate change impacts will be differently distributed among different regions, generations, age classes, income group, occupations and genders" (IPCC, 2001). The IPCC also notes: "the impacts of climate change will fall disproportionately upon developing countries and the poor persons within all countries, and thereby exacerbate inequities in health status and access to adequate food, clean water, and other resources." People living in poverty are more vulnerable to environmental changes. The gender-poverty links show that 70 percent of the poor in the world are women. When natural disasters and environmental change happen, women and men are affected differently because of traditional, socially based roles and responsibilities.
- 22. In traditional societies as in Turkey, women are even more vulnerable to the impacts of climate change. Because they are partly involved in decision making at different levels (with a rate of 2 % in municipal assemblies and 9.1 % at the Turkish Grand National Assembly for example), women are less likely to receive critical information about climate and are less able to respond because of restrictions on mobility.
- 23. The project will incorporate and mainstream gender through: (1) including gender disaggregated data in all the reporting mechanism, as relevant; (2) promoting the inclusiveness of women at the local level in all the awareness campaigns making the information accessible to women; and (3) by promoting the equal participation of men and women in all the conferences, trainings and workshops to empower women through capacity building and technical training and therefore increase women's capacity to effectively participate in policy-making and decision-making bodies.

#### 1.3 Management Arrangements

- 24. The Ministry of Environment and Forestry, acting as the national focal point to the UNFCCC is the leading governmental agency for all issues related to climate change in Turkey. The project will be executed through National Execution (NEX) modality with this Ministry, serving as Governmental counterpart. UNDP is the GEF implementing agency for the project. The present Project Document shall enter into force on the date of the written notification by which the Government of Republic of Turkey notifies the other party, through diplomatic channels, of the completion of its internal legal procedures required for the entry into force of the Project Document.
- 25. Project Management Team (PMT) will consist of National Project Coordinator assigned by MoEF, Senior Project Coordinator, Project Manager and Project Assistant contracted by UNDP. PMT will be responsible for the planning, coordination and management of the SNC, its development for further submission to COP. The long-term objective of this enabling activity is to enhance capacity building efforts, make efficient use of compiled information, and engage technical experts and institution more effectively, as a way to ensure sustainability and continuity of activities.
- 26. The Project Steering Committee established in frame of the INC would continue to act as advisory body that will provide high-level guidance and support to the project. To avoid duplication and ensure continuity of efforts, the national expert teams established for the INC are expected to provide their input to the SNC development process.
- 27. The inter-ministerial National Coordination Board on Climate Change (CBCC), initially established in 2001, was revised by the No:25377 Circular of the Prime Ministry, published on 18.02.2004 in the Official Gazette No: 2004/13. The Council has set up a Technical Commission that consists of working groups who will contribute to the preparation of the national communication and will serve as project steering committee as well.
- 28. UNDP's role will be to provide technical guidance, promote participation, facilitation, ensuring coordination among relevant international donors/programs and establishment of new partnerships. Project duration is eighteen months.

#### 1.4 Monitoring and Evaluation

- 29. Monitoring responsibilities and events:
- 30. Project monitoring and evaluation will be conducted in accordance with established UNDP and GEF procedures. Project reviews meetings will be developed in detailed schedule by the project management, in consultation with stakeholder representatives and project implementation partners and incorporated in the Project Inception Report.

#### Project schedule will include:

- 31. Tentative timeframes for Steering Committee Meetings, (or relevant advisory and/or coordination mechanisms).
- 32. Project related Monitoring and Evaluation activities.
- 33. Day to day monitoring of implementation progress will be the responsibility of the Project Manager, based on the project's Periodic Work plan and its indicators. The Project Team will inform the UNDP-CO of any delays or difficulties faced during implementation so that the appropriate support or corrective measures can be adopted in a timely and remedial fashion.
- 34. Periodic monitoring of implementation progress will be undertaken by the UNDP-CO through quarterly meetings with the project proponent, or more frequently as deemed necessary. This will allow parties to take

- stock and to troubleshoot any problems pertaining to the project in a timely fashion to ensure smooth implementation of project activities.
- 35. Project Monitoring Reporting: The National Project Coordinator in conjunction with the UNDP-GEF extended team will be responsible for the preparation and submission of the following reports that form part of the monitoring process.

#### (a) Inception Report (IR)

- 36. A Project Inception Report will be prepared immediately following the Inception Workshop. It will include a detailed eighteen month Work Plan divided in monthly time frames detailing the activities and progress indicators that will guide implementation during eighteen months of the project. The Report will also include the detailed project budget for eighteen month of implementation, prepared on the basis of the Periodic Work Plan, and including any monitoring and evaluation requirements to effectively measure project performance during the targeted eighteen months time-frame.
- 37. The Inception Report will include a more detailed narrative on the institutional roles, responsibilities, coordinating actions and feedback mechanisms of project related partners. In addition, a section will be included on progress to date on project establishment and start-up activities and an update of any changed external conditions that may effect project implementation.
- 38. When finalized, the report will be circulated to project counterparts to respond with comments or queries. Prior to this circulation of the IR, the UNDP Country Office and UNDP-GEF's Regional Coordinating Unit will review the document.

#### (b) Quarterly Progress Reports (QPRs)

39. Short reports outlining main updates in project progress will be provided quarterly to the local UNDP Country Office and the UNDP-GEF regional office by the project team.

#### (c) Technical Reports (TRs)

- 40. Technical Reports are detailed documents covering specific areas of analysis or scientific specializations within the overall project. As part of the Inception Report, the project team will prepare a draft Reports List, detailing the technical reports that are expected to be prepared on key areas of activity during the course of the Project, and tentative due dates. Where necessary this Reports List will be revised and updated, and included in subsequent periodic reports. Technical Reports may also be prepared by external consultants and should be comprehensive, specialized analyses of clearly defined areas of research within the framework of the project. These technical reports will represent, as appropriate, the project's substantive contribution to specific areas, and will be used in efforts to disseminate relevant information and best practices at local, national and international levels.
- 41. Audit Clause. The Government will provide the Resident Representative with certified periodic financial statements, and with an annual audit of the financial statements relating to the status of UNDP (including GEF) funds according to the established procedures set out in the Programming and Finance manuals. The Audit will be conducted by the legally recognized auditor of the Government, or by a commercial auditor engaged by the Government.

#### 1.5 Legal Context

42. This Project Document shall be the instrument referred to as such in Article I of the Standard Basic Assistance Agreement (SBAA) between the Government of Turkey and the United Nations Development Programme. The host country-implementing agency shall, for the purpose of the Standard Basic Assistance Agreement, refer to the government co-operating agency described in that Agreement.

- 43. UNDP acts in this Project as Implementing Agency of the Global Environment Facility (GEF), and all rights and privileges pertaining to UNDP as per the terms of the SBAA shall be extended mutatis mutandis to GEF.
- 44. The UNDP Resident Representative is authorized to effect in writing the following types of revision to this Project Document, provided that he/she has verified the agreement thereto by GEF Unit and is assured that the other signatories to the Project Document have no objection to the proposed changes:
  - a) Revision of, or addition to, any of the Appendixes to the Project Document;
  - b) Revisions which do not involve significant changes in the immediate objectives, outputs or activities of the project, but are caused by the rearrangement of the inputs already agreed to or by cost increases due to inflation;
  - c) Mandatory monthly revisions which re-phase the delivery of agreed project inputs or increased expert or other costs due to inflation or take into account agency expenditure flexibility; and
  - d) Inclusion of additional Appendixes and attachments only as set out here in this Project Document.
- 45. In order to accord proper acknowledgement to GEF for providing funding, a GEF logo should appear on all relevant GEF project publications, including among others, project hardware and vehicles purchased with GEF funds. Any citation on publications regarding projects funded by GEF should also accord proper acknowledgment to GEF.

#### 1.6 Lessons learnt and good practices

- 46. The preparation of the National Report and technical assessment reports were a learning-by-doing exercise that served for building and developing national capacities to compile NC to the CoP of the UNFCCC.
- 47. The continuation of the expert teams involved in NC was critical for the achievement of this process. This approach, along with extension of the expert teams though training the trainers is a step towards sustainability of the process. Inventory preparation team and GHG abatement analysis team should have very close cooperation. This is a lesson learnt during these exercises. Partnership with other UNDP programs and other national public institutions to address climate change issues into development agendas, as already identified is also a good practice.
- 48. Technical support provided by UNDP-GEF NCSP through thematic workshop, help desk, newsletters and peer review of all components of the NC was critical for the quality improvement of the National Communication.
- 49. Turkey is playing an important role in the international activities and is a signatory of the UN Convention to Combat Desertification, the Biodiversity Convention, UN/ECE Convention of Long Range Tran boundary Air Pollution, EMEP Protocol, the Montreal Protocol, and several regional conventions and protocols. Turkey is considered as a developing country according to UN Biodiversity Convention and the Montreal Protocol. Turkey's outstanding efforts for phasing-out ozone depleting substances have been recognized by the UN last year as a good practice for other developing countries. Turkey is ready to play a similar leading role among the developing countries under the UNFCCC.
- 50. The National Energy Strategy has already integrated many findings and outputs from the Climate Change project, which is a significant indicator of raised awareness of policy makers into climate change. In addition, the current program is helping other relevant projects in achieving their targets.
- 51. Working in synergy with other GEF and other donor climate change or non-climate change projects will be an efficient way of getting good and desired results.
- 52. National Communication exercise has been seen not only as a tool to meet the commitments that Turkey has, as a Party to the UNFCCC but also as leverage for programming purposes.

# Part 2: BUDGET Total Budget and Work Plan

A 170.	000000
Award ID:	000035362
	PIMS 4317 CC EA SNC Turkey "ENABLING ACTIVITIES FOR THE PREPARATION OF TURKEY'S SECOND NATIONAL
Award Title:	COMMUNICATION TO THE UNFCCC"
Business Unit:	TURIO
	PIMS 4317 CC EA SNC Turkey "ENABLING ACTIVITIES FOR THE PREPARATION OF TURKEY'S SECOND NATIONAL
Project Title:	COMMUNICATION TO THE UNFCCC"
Project ID: PIMS no. 4317	00074231
Implementing Partner	
(Executing Agency)	Ministry of Environment and Forestry

GEF Outcome/Atlas Activity**	Responsible Party/Implementing Agent	Fund ID	Donor Name	Atlas Budgetary Account Code	ATLAS Budget Description	Amount (USD) Year 1	Amount (USD) Year 2	Total (USD) All Years	See Budget Note:
OUTCOME I:	JON	00017	330	71300	Local Consultant	4,500	4,500	0006	×
Reviewed and Updated	MOGE	02000	OE		Total Outcome I.	4,500	4,500	000,6	
				71200	International Consultant	10,000	18,000	28,000	×
				71300	Local Consultant	5,000	10,000	15,000	×
GHG Inventory	MOFF	62000	GEF	72100	Contractual Services	10,000	20,000	30,000	X
Information Reviewed and Updated	i }		i	71600	Travel	2,000	2,000	4,000	x
				74500	Misc. Expenses	100	400	200	×
					Total Outcome 2.	27,100	50,400	77,500	
				71200	International Consultant	4,000	24,000	28,000	х
				71300	Local Consultant	10,000	20,000	30,000	×
OUTCOME 3: Policy and Measures	MOFF	62000	GEF	72100	Contractual Services	-	6,000	90009	×
Assessed and Analyzed			<u>;</u>	71600	Travel	1,500	1,500	3,000	×
				74500	Misc. Expenses	200	500	200	×
					Total Outcome 3.	15,700	52,000	67,700	

				71300	Local Consultant	2,000	\$ 500	10 500	<u> </u>
OUTCOME 4:				72100	3 (2)		000	2000	<
GHG Projections				/2100	Contractual Services	•	16,000	16,000	×
Reviewed, Updated and	MOEF	90029	GEF	71600	Travel	200	800	1,000	×
terms of total PaMs effects				74500	Misc. Expenses	50	150	200	×
					Total Outcome 4.	5,250	22,450	27,700	
				71200	International Consultant	14,000	14,000	28,000	×
OUTCOME 5:				71300	Local Consultant	6,500	25,000	31,500	×
Review and Update Vulnerability Assessment,	MOEF	97000	GEF	72100	Contractual Services	2,000	3,000	5,000	×
Climate Change Impacts and Adaptation Measures				71600	Travel	1,000	2,000	3,000	×
			•	74500	Mise. Expenses	100	300	400	×
					Total Outcome 5.	23,600	44,300	67,900	
				71200	International Consultant	2,000	5,000	7,000	×
OUTCOME 6: Review Research and		-		71300	Local Consultant	12,000	6,000	18,000	×
Systematic Observation Completed in Terms of	MOEF	62000	GEF	71600	Travel	1,000	2,000	3,000	×
Climate Change				74500	Misc. Expenses	100	1400	1500	×
		, , , , , , , , , , , , , , , , , , ,			Total Outcome 6.	15,100	14,400	29,500	
				71200	International Consultant	000'01	14,500	24,500	×
				71300	Local Consultant	15,000	16,500	31,500	×
OUTCOME 7: Financial Resources and	MOEF	62000	GEF	71600	Travel	2,400	3,000	5,400	×
Technology Transfer			'	72100	Contractual Services	3,000	6,000	000'6	×
				74500	Misc. Expenses	300	400	200	×
					Total Outcome 7.	30,700	40,400	71,100	
OUTCOME 8:				71300	Local Consultant	4,000	8,000	12,000	×
Review of National	MOEE	0000	 L	71600	Travel	400	1,600	2,000	×
Public Awareness	MOEF	02000		72100	Contractual Services	3,000	15,000	18,000	×
Activities in a urkey					Total Outcome 8.	7,400	24,600	32,060	
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×	×	×	×	×	×	×		×	×	×	×		×	×	×		
7,000	15,000	7,000	12,000	1,420	6,160	5,000	53,580	4,500	7,000	2,200	1,000	14,700	15,800	3,100	30,420	49,320	200,000
7,000	5,000	3,000	12,000	1,040	1,160	5,000	34,200	•	7,000	•	1,000	8,000	11,800	1,200	10,140	23,140	318,390
•	10,000	4,000	•	380	5,000	-	19,380	4,500	•	2,200	-	6,700	4,000	2,400	20,280	26,680	181,610
International Consultant	Contractual Services	Travel	Contractual Services	Misc. Expenses	Info.Tech.Eq.	Audio visual Prod. Costs	Total Outcome 9.	Local Consultant	Contractual Services	Travel	Misc. Expenses	Total Outcome 16.	Travel	Supply	Contractual Services	Total Management	
71200	71400	00912	72100	74500	72800	74200		71300	72100	00912	74500		71600	72500	71400		
			GEF	i			•			GEF				GEF	i )		Total
			9000							62000				00069			Project To
			MOFF							MOEF				MOFF/IINDP			
			OUTCOME 9: Preparation of the SNC of	Turkey and submission to the UNFCCC					OUTCOME 10: Monitoring, Learning,	Adaptive Feedbaack & Evaluation	(as per the logframe and			Project Management Unit	9		

Summary of Funds: 1

Donor Name	Year 1	Year 2	Total - All Years
GEF	181,110	318,890	200,000
UNDP in Cash	7500	7500	15,000
MoEF in Kind	363,000	737,000	1,100,000
TOTAL	551,610	1,063,390	1,615,000

<sup>1</sup> Summary table should include all financing of all kinds: GEF financing, co-financing, cash, in-kind, etc. etc

#### Part II: Budget Notes

#### General Cost Factors:

Short-term national consultants (NC) are budgeted at \$1500 per week. International consultants (IC) are budgeted at \$3500 per week. DSA's are budgeted at \$200 per day. Local Flight Tickets are budgeted at \$200 per round trip. International Flight Tickets are budgeted at \$1000 per round trip. This is based on UNDP standard costs.

#### Outcome 1:

#### 1. National Circumstances Reviewed and Updated

 6 Man/weeks of local short term consultant support (6 M/w x \$1500: \$9000) – the consultant will be hired to update the CBCC by reviewing the existing national circumstances trough periodic reporting.

#### 2. GHG Inventory Information Reviewed and Updated

- 8 Man/weeks of international short term consultant support (8 M/w x \$3500: \$28000) The consultant will be hired for to guide the PMU and the national consultant throughout the data review and calculation process in line with the UNFCCC requirements.
- 10 Man/weeks of local short term consultant support (10 M/w x \$1500: \$15000) the consultant will be hired to update the CBCC by reviewing the existing data and conducting new calculations to analyze the situation in the country.
- \$30000 is budgeted for workshops including meeting space, meals and hotel accommodation of guests. (6 workshops x \$5000: 30000 USD) The outcomes of the review and calculations will be shared with national and international counterparts including the members of the CBCC and Ministry of Environment Forestry trough working group meetings and discuss the factors underlying the GHG emission trends for all source sectors/subsectors through a series of meetings.
- 5 local and 3 international flights [(5 flights x \$200) + (3 flights x \$1000): \$4000]
- \$500 is budgeted for miscellaneous expenses. The precise costs of the workshops are difficult to anticipate. The project will look for cost-savings wherever possible, particularly in relation to travel.

#### 3. Policy and Measures Assessed and Analyzed

- 8 Man/weeks of international short term consultant support (8 M/w x \$3500: \$28000) The consultant will be hired to guide the PMU and the national consultant throughout the assessment and analysis process in line with the UNFCCC requirements and international trends.
- 20 Man/weeks of local short term consultant support (20 M/w x \$1500: \$30000) the consultant will be hired to update the CBCC by assessing and analyzing the possible (most significant) policy and measures to be taken into account with the support of information received from Outcome 1, Outcome 2 and Outcome 4.
- \$6000 is budgeted for workshops including, meeting space, meals and hotel accommodation of guests. (2 workshops x \$3000: 6000 USD) The outcomes of the assessment and analysis will be shared with national and international counterparts including the members of the CBCC and Ministry of Environment Forestry to assess the country position and draft possible policy and measure options through a series of meetings.
- 5 local and 2 international flights [(5 flights x \$200) + (2 flights x \$1000): \$3000]
- \$700 is budgeted for miscellaneous expenses. The precise costs of the workshops are difficult to anticipate. The project will look for cost-savings wherever possible, particularly in relation to travel.

#### 4. GHG Projections reviewed, updated and links are identified in terms of total PaMs effects.

7 Man/weeks of local short term consultant support (7 M/w x \$1500: \$10500) - the consultant will be hired to inform the CBCC by reviewing and updating the projections presented in the First

- National Communication including the emissions and removals to identify the links in terms of total PaMs effects.
- \$16000 is budgeted for workshops including, meeting space, meals and hotel accommodation of guests. (4 workshops x \$4000: 16000 USD) The reviewed projections will be shared with national and international counterparts including the members of the CBCC and Ministry of Environment Forestry to conduct discussions for Second National Communication Report through a series of meetings.
- 5 local flights (5 flights x \$200): \$1000
- \$200 is budgeted for miscellaneous expenses. The precise costs of the workshops are difficult to anticipate. The project will look for cost-savings wherever possible, particularly in relation to travel.

#### 5. Review and update vulnerability assessment, climate change impacts and adaptation measures.

- 8 Man/weeks of international short term consultant support (8 M/w x \$ 3500: \$28 000) The
  consultant will be hired for to guide the PMU and the national consultant throughout the
  vulnerability assessment and adaptation measure development process in line with the UNFCCC
  requirements and international trends.
- 21 Man/weeks of local short term consultant support (21M/w x \$ 1500: \$31500) the consultant will be hired to inform the CBCC through a complete nationwide sectoral vulnerability assessment in terms of climate.
- \$5000 is budgeted for workshops including, meeting space, meals and hotel accommodation of guests. (5 workshops x \$1000: 5000 USD) The outcome of the assessment and impacts will be shared with national and international counterparts including the members of the CBCC and Ministry of Environment Forestry to develop possible adaptive measures through a series of meetings.
- 5 local and 2 international flights [(5 flights x \$200) + (2 flights x \$1000): \$3000]
- \$400 is budgeted for miscellaneous expenses. The precise costs of the workshops are difficult to anticipate. The project will look for cost-savings wherever possible, particularly in relation to travel.

#### 6. Review research and systematic observation completed in terms of climate change.

- 2 Man/weeks of international short term consultant support (2 M/w x \$ 3500: \$7000) -the consultant will be hired to inform the CBCC by identifying and assessing the actions, reviewing and assessing status of national plans and programs based on climate observing systems.
- 12 Man/weeks of local short term consultant support (12 M/w x \$ 1500: \$ 18000) The consultant will be hired for to guide the PMU and the national consultant throughout the observation process in line with the UNFCCC requirements.
- 5 local and 2 international flights [(5 flights x \$200) + (2 flights x \$1000): \$3000] The consultants are expected to work in Ankara and any other necessary city. Therefore the travel costs of the consultants needs to be covered.
- \$1500 is budgeted for miscellaneous expenses. The precise costs of the workshops are difficult to anticipate. The project will look for cost-savings wherever possible, particularly in relation to travel.

#### 7. Financial Resources and Technology Transfer

- 7 Man/weeks of international short term consultant support (7M/w x \$ 3500: \$24500) The consultant will be hired for to guide the PMU and the national consultant throughout the review and update process in line with the UNFCCC requirements.
- 21 Man/weeks of local short term consultant support (21M/w x \$ 1500: \$31500) the consultant will be hired to update the CBCC by reviewing and updating the environmental financial policies and applications in Turkey.
- 5 local and 2 international flights [(7 flights x \$200) + (4 flights x \$1000): \$5400] The consultants are expected to work in Ankara and any other necessary city. Therefore the travel costs of the consultants needs to be covered.
- \$ 9000 is budgeted for workshops including, meeting space, meals and hotel accommodation of guests. (3 workshops x \$3000: 9000 USD) The outcome of the review process will be shared

- with national and international counterparts including the members of the CBCC and Ministry of Environment Forestry to develop possible adaptive measures through a series of meetings
- \$700 is budgeted for miscellaneous expenses. The precise costs of the workshops are difficult to anticipate. The project will look for cost-savings wherever possible, particularly in relation to travel.

#### 8. Review of national education, training and public awareness activities in Turkey.

- 8 Man/weeks of local short term consultant support (8 M/w x \$ 1500: \$12000) the consultant will be hired to prepare a summary report on general policy towards education training and public awareness.
- 10 local flights (10 flights x \$200): \$2000 The consultant is expected to work in Ankara and any other necessary city. Therefore the travel costs of the consultants needs to be covered.
- \$18000 is budgeted for workshops including, meeting space, meals and hotel accommodation of guests. (6 workshops x \$3000: 18000 USD) The report will be prepared together with national and international counterparts including the members of the CBCC and Ministry of Environment Forestry through several working group meetings.

#### 9. Preparation of the SNC of Turkey and submission to the UNFCCC

- 2 Man/weeks of international short term consultant support (2 M/w x \$ 3500: \$7000) The consultant will be hired for to guide the PMU and the national consultant throughout the report writing process in line with the UNFCCC requirements.
- 10 Man/weeks of local short term consultant support (10 M/w x \$ 1500: \$15,000) The consultant will be hired for to draft the SNC Document according to the UNFCCC Guidelines including compilation, drafting chapters and any other necessary actions. This person will also act as the Project Manager.
- 10 local and 1 international flights [(15 flights x \$200) + (1 flights x \$1000): 4000] and 15 days of DSA (15 days x \$ 200: \$3000). The consultants are expected to work in Ankara and any other necessary city. Therefore the travel costs of the consultants needs to be covered.
- \$5000 is budgeted for printing of the 2<sup>nd</sup> National Communication Report
- \$12000 is budgeted for final workshop including, meeting space, meals and hotel accommodation of guests.
- \$6160 is budgeted for the office information technology equipment. This will include 2 laptops, 1 printer (all-in-one), necessary software licenses (MS Office and virus protection), 1 data projector, 2 land phones and 1 cell phone.
- \$1,420 is budgeted for miscellaneous expenses. The precise costs of the workshop are difficult to anticipate. The project will look for cost-savings wherever possible, particularly in relation to travel

# 10. Monitoring, Learning, Adaptive Feedback & Evaluation (as per the logframe and M&E Plan and Budget)

- 3 Man/weeks of local short term consultant support (3 M/w x \$ 1500: \$4500) The consultant will be hired to monitor and evaluate the project as per the GEF SEC and UNDP requirements and inform the PMU for guidance.
- \$7000 is budgeted for NIM Audit in line with UNDP Audit requirements
- 11 local flights (11 flights x \$200): \$2200 The consultant is expected to work in Ankara and any other necessary city. Therefore the travel costs of the consultants needs to be covered.
- \$1000 is budgeted for miscellaneous expenses. The precise cost of the audit exercise is difficult to anticipate. The project will look for cost-savings wherever possible.

#### 11. Project Management

The project team is expected to use UNDP and the Ministry facilities as the office working space. Furthermore, it is required to buy office equipment and furniture. IT equipment will also be purchased for the project staff. The detailed information of the costs is stated below;

3600 USD is budgeted to for office set-up including the equipment, furniture..

Project Assistant are budgeted based as per Non-UN Salary Scale defined for Turkey.

Project Assistant cost is: \$390 x 78 weeks: \$30420

\$15800 is budgeted for travel by staff of the PMO and UNDP to allow for effective project coordination between the PMO and the different field sites.

DSA Cost: \$200 x 59 days: \$11800 Ticket Cost (economy fare flight-round trip): \$200 x 20 flights: \$4000

### **Part 3: APPENDICES**

#### **Work Plan**

OUTPUTS / AC	CTIVITIES						Mo	nths	•	Signe		250	38		
		1	2	3	4	5 6	7	8	9 1	0 11	12 1	13 I	1 15	16	17
	Project inception and Implementation Arrangements	res	033	(E)(	17.75	2500		10215	SEC.		1277	STEEL ST	SHEE	Spile.	
	Assign staff for PMU(Project Management Unit)	82	50	П	Т	Т	Т	$\Gamma$	П		П	Т	ТП	Т	T
	Establish project office	轍	125	П	$\neg$	$\neg$	Т	П	П		П	$\top$	П	T	П
	Revise the functionality and execution methodology of Coordination Board on Climate	200	Г	П	П		Т				П	7	П	Т	П
	Change(CBCC)	1									LI				
	Organize initial coordination meeting	94		П	П		T							T	
	Preparation of ToRs for the project and consultants	122	23	П	П						П	Т			
	Contract consultants for identified activity areas	233	183		$\Box$		Т		П		П			T	
100000000000000000000000000000000000000	Inception Phase (IP)	183	100		П		Т	П	П		П	T	$\Box$		
	Schedule IP activity plan	107	機		П		Т	Т	П		П	Т	П		
	Submit to CBCC and circulation of those among Stakeholders	26	88		П						П				
Output I	National Circumstances Reviewed and Updated	製	100			70.0	Sel.			700			BISTORY		825
Activity 1.1	Assess National Circumstances, and how NCs effects GHG emissions and removal		遊	鑑	100				П	Т	П	Т	П		
ACTIVITY 1.1	now and changes in NCs effects GHG emssions and removals over time		18	2	第						Ш	-			
Activity 1.2	Review and verify historical trends and include disaggregated indicators		88	恶	部	BE N	3 0		П		П	Т	$\top$		83
	Assess sectoral information with examples of the key drivers for sectors such as:		100	60	100	(B- 8)	1 20		П	Т	П	Т	П	Т	377
Activity 1.3	energy, transport, industry, waste, building stock, urban structure, agriculture,		涨			94	18		ш		П	-1	11	- 1	
	forest and others.		80	歷	22	83	1		Ш						
	Review and gap evaluation of the national circumstances of Turkey in accordance		態	鑑	疆	SS 9			П	Т	П	1	П	Т	
Activity 1.4	with governmental structure with special emphasis on climate change, population,		嚴						П	1	ш	1	11	- 1	
	geographic, climate and economic profile.		罷			12 6			Н		Н	-	$\mathbf{I}$	- 1	
- ES	Develop and review special circumstances, justifications to define and strenghten	-	100	-	8	97 S			H	+	Н	+	H	+	
Activity 1.5	Turkey's special status in the convention (Decision 26/CP.7) and review the	ı	鹰	85					Н		H		11	- 1	
•	financial resources benefited from for the preparation of this NC.	ı	靐	2					Н	- 13	П	-	11	1	
Activity 1.6	Draft report chapter for national circumstances of Turkey	Н	崩	100	200	98 9	+		Н		Н	+	+	+	_
Activity 1.7	Circulate draft chapter for review and integrate comments		Г	П	$\neg$	- 1	8 16	: 836			$\Box$	$\top$	$\top$	1	
utput 2	GHG Inventory Information Reviewed and Updated	802	1011	2018	100		888	SEE	3533	MATERIAL STATES	0000	1000	1000	752	833
	Collection and estimation of the inventory data related to the emissions and removals	Г	能	-55	200	39 E	6	Т	П		97	25 6	8 60	Т	
A satisface 2.1	of gases; CO2, CH4, N2O, HFCs, PFCs, SF6 and other GHG such as NOx, CO,		iv.	麗				1	Ш			816			
Activity 2.1	NM VOCs, and SO2 for the years between 1990 - 2008 (with necessary re		100		1	3	H	1	ш					1	
	calculations and updates) prepared.		965		100	題用	8	1	ш		9			П	
Activity 2.2	Assess key drivers of the GHG emissions and removals		183	185	88	85 5	100		П		383	S\$ 6	3 33	$\neg$	_
Activity 2,3	Organize working group meetings and discuss the factors underlying the GHG	Г	Г				35	3	П		190	98			
Activity 2.3	emissions trands for all source sectors/subsectors.				-		100		П		200				
Activity 2.4	Compile and draft the related section report						98	9	П		П	100 P	B6	181	(B)

Activity 3.1  Activity 3.1  Activity 3.2  Activity 3.3  Activity 3.3  Activity 3.3  Activity 3.3  Complete a detailed continue of measure (Parks) in terms of their impacts of Parks. (Special implication and all levels (custional and local levels) and all sectores.  Activity 3.3  Activity 3.3  Complete a detailed economic costs of sectoral Parks, or collections of Parks. (Special implication benefits and discrimination of militagition august, by gas etc. see Table 1, 3.1  Activity 3.3  Develop and complete a sectoral cost-official reviews analysis to identify the demand of maintained of militagition august, by gas etc. see Table 1, 3.1  Activity 3.4  Develop and complete a sectoral cost-official reviews analysis to identify the demand remains the maintained of militagition august, by gas etc. see Table 1, 3.1  Activity 3.5  Pregnation of the Table 1. Summary of Tolicies and Measures by Sector and produced trend description related to the incide of the collection of the Table 1. Summary of Tolicies and Measures by Sector and produced trend description related to the incide and trends of the collection of the parks of the parks of the collection of the collection of the parks of the collection	Activity 3.2 Activity 3.3 Activity 3.4 Activity 3.5 Activity 3.6 Activity 3.7 Activity 3.8 Durput 4.	change related policies and measures (PaMs) in terms of their impact on GHG mitigation at all levels (national and local levels) and all sectors.  Assess the quantitative effects of individual PaMs, or collections of PaMs. (Special emphasis to be given for the estimation of mitigation impact, by gas etc. see Table 1.)  Complete a detailed economic costs of sectoral PaMs on with and w/o GHG mitigation benefits and its relations to the longer term trends.  Develop and complete a sectoral cost-effectiveness analysis to identify the alternative measures to mitigate climate change.  Preparation of the Table 1. Summary of Policies and Measures by Sector and provide textual description related to this table.  Assess the links between PaMs and projections for years 2010, 2015, 2020 and 2030.  Organise meetings to discuss the outputs of the sectoral cost-effectiveness analysis, PaMs, projections.  Compile and draft the related section report  GHG Projections reviewed, updated and links are identified in terms of total		STATE COMPANIES CONTROL			AND SCHOOL SCHOOLS SCHOOL SCHO					THE REAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS				T
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			2000	-	-	-			$\vdash$	150 0	g (283)	65	100	200	133	4

Output 8.	Review of national education, training and public awareness activites in Turkey.	遊戲	NIS.	NE.	1007	3.87	200	ME	Re	130	2660	De la	BES.	900	2315		12:5	
Activity 8.1	Prepare as summary report on general policy towards education, training and public awareness (ETP).	985,390	2500							T		T	が			T	T	60
Activity 8.2	Collect information and summarize activites on primary, secondary, and higher education in terms of climate change; public information campaings and relevant educational materials, resources and information centers; training programs and participaton in international activities.		<b>EREPRINE</b>		<b>SECTION</b>								STEEL BESTEEL					
Acitivity 8.3	Assess the involvement of public, private sectors and NGOs in climate change activities.	П				STATES A	THE REAL PROPERTY.			T	T	Γ	2888			1		
Activity 8,4	Develop and conduct a nationwide survey to assess the level of awareness of public, private sectors, NGOs and citizens in terms of climate change.	П			RESER		1300						SAN SAN					Ī
Activity 8.5	Summarize the actions taken under the New Delhi Work Programme on Article 6 of the Convention.	П	37		7				1			T	1322				1	
Activity 8.6	Compile and draft the related section report.	П						600	┪			т	П		23	183	100	_
Output 9.	Preparation of the SNC of Turkey and submission to the UNFCCC	1		500	2/6	15.00	360	Will live	949	STATE	1500	(630)	SSE	Hall.	1000	湖海	250	
Activity 9.1	Draft SNC Document according to the UNFCCC guidelines	П					8	200	П			Т				П	$\Box$	
Activity 9.2	Compile the draft chapters of thematic sections					现	98	30	П			Т					$\neg$	
Activity 9.3	Draft the other sector chapters	П			П	336	80	28	П	$\neg$	$\top$	Т	Т	П		╗	П	_
Activity 9.4	Draft the Emission Inventory Tables and conduct review for validation	П						32	П			Т				$\neg$	$\neg$	П
Activity 9.5	Translate and proof-read the final draft document to English/Turkish.	П			П		88	200	П		7	Т	T			$\neg$	$\neg$	
Activity 9.6	Register and compile all the reference/background materials used and benefited from during the NC preparation to be submitted to the MOEF.	П										2533	10000	福品				100
Activity 9.7	Submittal, Endorsement and Presenting the SNC	П					$\neg$	┪	┪	$\neg$	_	135	$\overline{}$		$\neg$	7	$\neg$	_
Activity 9.8	Circulation of the draft for comments and review and incorporate comments both in English and Turkish.	П										CHROS					T	
Activity 9.9	Endorsement of the document by MoEF followed by UNDP Turkey	П						$\dashv$	┪	1	+	90	523	8	535	┪	$\neg$	_
Activity 9.10	Organize a national workshop to launch and present the findings of the Turkey's	П						$\neg$	╛	1	$\top$	T				7	100	-500
Activity 9.11	Finalize the Second National Communication of Turkey	П						1	1	1	+	t	1			1	283	131
Activity 9.12	Publish the Turkey's SNC to UNFCCC	П						$\dashv$	7	1	T	t	$\vdash$			T	100	
Activity 9.13	Preparation of CD copies of Turkey's SNC	Н						$\dashv$	1	$\top$		t	$\vdash$			$\exists$	83	
Activity 9.14	Submittal of the SNC officially to UNFCCC	П				П		$\dashv$	┪		$\top$	$\top$	✝	П		╛	200	330

#### Appendix A:

#### I. Summary of main findings of the FNC consultations

53. The review presented in this chapter is based on the in-country review organized by the UNFCCC Secretariat for the First National Communication of Turkey in October 2008 according to the Decision 19/CP.8. All relevant stakeholders (Ministries, other Governmental Institutions, NGOs, UN Agencies) were actively participated to this process. The UNFCCC Expert Review Team made a detailed review and met with the key experts who were engaged in the preparation of the report. The results of this review study will be an important input for this project.

#### 1.11 National Circumstances:

- 54. <u>Baseline</u>: FNC presented information about Turkey's Government structure, population, geographic, climatic and economic profile, sectoral information for energy, transportation, waste and agriculture and Turkey's special circumstances. FNC presents the brief results of the analysis conducted for the 2006-2020 period for Turkey with explicit recognition of the GHG emission control targets and the implied abatement costs. The study findings demonstrate that Turkey retains special national circumstances with respect to sharing the abatement burden in comparison with the developed countries based on the likely consequences of mitigation policy measures on social welfare, income distribution
- 55. <u>SNC Priorities:</u> This Section needs to be improved to include more detailed information about Turkey's national Circumstances in the areas of economic reforms; and, also should justify its national circumstances based on the Decision 26/CP.7.

#### 1.12 GHG Inventory Information:

- 56. <u>Baseline</u>: First National Communication is providing a simple pattern analysis for greenhouse gas inventory. Turkey has provided limited description of the factors underlying GHG emission trends, with a simple comparison of the trend of total GHG emissions with the trend in economic development (GDP), primary energy consumption and population growth. More detailed analysis is provided for LULUCF and road transport sector. GHG estimations for the energy sector, industrial processes, agriculture, field burning of agricultural residues, enteric fermentation management, rice cultivation and solid waste are carried out with IPCC Tier 1 method. INC did not estimate the other categories, such as for stationary combustion, fugitive emissions from oil and gas, PFCs from aluminium production, potential emissions of F-gases, and actual emissions of halocarbons (except for HFC-134a) from the industrial processes, all categories in the solvent and other product use sector, N-fixing crops, crop residue, cultivation of histosols, pasture, range and paddock manure and indirect N<sub>2</sub>O emissions from agricultural soils in the agriculture sector, wetlands and settlements in the LULUCF sector and Wastewater handling and waste incineration in the waste sector.
- 57. SNC Priorities: Report and analysis of the factors underlying the GHG emission trends should be enhanced. Tier 1 methods used for the key categories which consist 95% of the emissions, including energy, industrial processes, waste, agriculture and LULUCF shall be transposed to Tier 1/2 or Tier 2 methods where requisite data is potentially available. Uncertainty management should be expanded to all sectors which are to be included in the national GHG inventory. Quality Assurance and Quality Control plans and procedures need to be established and implemented systematically. SNC should include a more detailed analysis of the emission trends, including explanations for the evolution of per capita emissions and emissions per GDP.

#### 1.13 Policies and Measures:

58. <u>Baseline:</u> The Policies and Measures chapter presented policy making process, energy policies and all direct and indirect measures on GHG abatement by Turkey. Implemented, adopted and planned measures and additional policies and measures are compiled and summarized. These include, Energy taxation, Energy security, Combined heat and power generation, Renewable energy sources, Energy efficiency improvements, Vehicle and fuel taxes, Alternative vehicle fuels, Public transport systems, Integrated

transport planning, withdrawal of old cars from the traffic, Integrated prevention and pollution control, Agriculture Strategy and Agricultural Reform, Introduction of landfill and recycling methods, Turkish National Forest Programme and Afforestation and Soil Erosion Mobilization Action Plan, Support of research and development, Harmonization of Turkish environmental legislation with European Union (EU) laws. Turkey, as an Annex I Party, attaches importance to the implementation of Policies and Measures (PaMs), although it has no emissions limitation target under the Kyoto Protocol. In spite of national circumstances which follow the typical patterns of developing countries, efforts have been undertaken in selected areas to contribute to GHG mitigation.

59. SNC Priorities: Efforts that have been undertaken in selected areas to contribute to GHG mitigation is reported in the FNC; however, effectiveness of most measures could not be assessed. The structuring of this chapter should be done according to the guidelines.. The summary table should include all sectors, indicate the status of the policies and measures; should be more consistent for the different sectors; include the effects of emission reductions and linkages with policy measures. Cost Effectiveness analysis must be included in the SNC on how to mitigate Climate Change. A draft Climate Action Plan is presented in INC but in accordance with National Climate Change Strategy, a final Climate Change Action Plan should be prepared during the SNC preparation based on in-depth analysis and continued consultations.

#### 1.14 Projections and the Total Effect of Policies and Measures:

- 60. <u>Baseline:</u> Projections covered the Energy (energy-related emissions in transport, industry, agriculture and in end-consumption for the gases CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O) and Industrial processes (non-energy emissions for only Cement and Iron and Steel production for the gases CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O) on the basis of two scenarios were used: Without measures (as the reference scenario) and With Measures (Demand Side Management scenario). With additional measures scenario is not presented in the FNC. Transport Sector projections were also prepared. However, projections do not cover emissions from agriculture, LULUCF, waste and some industrial processes. Projections of emissions from international bunkers were not reported separately. The different modules of Energy and Power Evaluation Program (ENPEP) such as MAED, WASP, BALANCE and VALORAGUA were used to project GHG emissions, calculate and evaluate the cost and benefits of forecasted measures for the period 2005-2020 with 2003 taken as the base year. Also, a quantitative sensitivity analysis of uncertainties in the input assumptions was not presented in the INC.
- 61. SNC Priorities: Methodology used in the transport projections should be revised to be consistent with the guidelines. Emission reduction potential for agriculture activities and land use change resources will be taken into account in the analysis. The projections which are missing should be included in the SNC. The summary Table which is the core of the policy and measures section must be prepared. The main assumptions used in the projection scenarios should be further explained

#### 1.15 Vulnerability Assessment, Climate Change Impacts and Adaptation Measures:

- 62. Baseline: FNC has provided a very good analysis on historical trends in climate, with very good spatial resolution for the entire territory. But no analysis performed on interannual variability. Also, no consistency checks with data from neighboring countries were done which may enhance the accuracy of the analysis and projections. RegCM3 run based on SRES A2 emission scenario which takes into account of CO2, CH4, N2O, CFC11 and CFC12 variations for the time interval of 2071-2100. A nationwide adaptation strategy is not presented but several adaptation measures in the agriculture and water management sectors have been identified like flood control (dams, afforestation), irrigation (sprinkler and trickle instead of flooding) and Agriculture Drought Action Plan. Several case studies included in FNC assessed other possible vulnerabilities but they are not conclusive due to the lack of available data and studies. Vulnerability analysis was conducted for some regions including Seyhan, Gediz and Buyuk Menderes River Basins.
- 63. <u>SNC Priorities:</u> The climate change projections need to be set for the near future before 2070. Consistency checks with study results from neighboring countries are required to enhance the accuracy of the trend analysis. Also, an inter-annual variability analysis should be conducted. A full vulnerability assessment addressing the impacts of climate change on, for example, hydropower production capacity, increased electricity demand, required investments in water storage and transportation, tourism and forests. A nationwide adaptation plan should be prepared.

#### 1.16 Research and Systematic Observation:

- 64. Baseline: FNC provided a complete report on the status of Research and Systematic Observation in Turkey.
- 65. SNC Priorities: This chapter will be updated with the current status of the Research and Systematic Observation activities in Turkey. Academic research conducted in Turkey should be reviewed and compiled and additional analysis should be conducted on the needed scientific research for inclusion of Turkey's conditions in the upcoming 5. Assessment report of the IPCC.

#### 1.17 Financial Resources and Technology Transfer

- 66. Baseline: FNC presented information on environmental finance policies and implementation in Turkey as well as on international funding and list of activities related to transfer of technology.
- 67. SNC Priorities: This section needs improvement for ensuring the better consistency with the National Communication guidelines and needs to be updated with most recent information. A technology need assessment needs to be included in this chapter. In terms of financing the development and transfer of technologies, an indicative sector specific study on innovative financing options such as incentives, tax exemptions, and low interest credits needs to be conducted.

#### 1.18 Education, Training and Public Awareness:

- 68. <u>Baseline</u>: INC showed great focus on Education, Training and Public Awareness. The INC presents a variety of environmental education programmes in primary, secondary and higher education as well as training programmes and participation in international activities. The strong connection between energy consumption and climate change is used to build issue awareness and promote additional efficiency improvements. A variety of vehicles, including a series of articles in newspapers and journals, and television and radio broadcasts, special events and greater use of web-based communication were used for the education of the general public.
- 69. <u>SNC Priorities:</u> The structure of this chapter shall be further improved in a more organized way as well as updated with the latest information. The more quantitative information shall be provided with respect to achievements among the institutions and the targeted people who benefited from education, training and public awareness activities on climate change.

# APPENDIX B - STAKEHOLDERS MATRIX

Institution Organization	Department/ stakeholder/ participant		Responsibility / Field of Activities	Relevance to Climate Change	Role in the SNC
GOVERNMENT BODIES	BODIES				
Ministry of Environment and Forestry (MoEF)	Ministry general		MoEF is the main authorized government body responsible for environment and forestry protection in the Republic of Turkey. General field of activities of MoEF as follows:  Legislates and regulates governmental policies, strategies and action plans for environment and forestry protection  Drafts laws, degree of laws and decisions for the protection of the environment and forestry  Follows-up the implementation of laws, by-laws and decisions of the Ministers Council for environment and forestry protection  Coordinates research and development activities through the Research and Development Department of MoEF.  Conducts cooperation between relevant Ministries, local government, research institutions, and NGOs Plans measures, activities and standards to protect environment and forestry Prepares and endorse projects for the protection and remediation of environment Manages government funds and facilities allocated for environment funds and facilities allocated for environmental permission/ license for all impact related activities  Leads the implementation process of all environmental conventions which Turkey is a signatory	<ul> <li>Mandate for establishment of state policy in the field of climate change</li> <li>Leading governmental agency for all climate change issues in Turkey</li> <li>MoEF Undersecretary as NPC will be fully responsible for the coordination of the project as coordinator of this exercise and to ensure the intended outputs are achieved within their timetable.</li> <li>MoEF acts as the national focal point to the UNFCCC</li> <li>Through CCCB, it cooperates with key stakeholders in stocktaking preparatory process and plans an effective methodology to get the maximum output especially from the Technical Working Groups</li> <li>Has the responsibly of the GEF Focal Point (Operational /Political) stands under MoEF;</li> <li>The responsibility of the UNEP and other relative UNE ocherations stands under MoEF;</li> </ul>	CCCB operates under MoEF and coordinates the stocktaking exercise at national level and responsible in ensuring preparation of the final stocktaking report and the Turkey's INC to UNFCCC. Coordinates directors, officials and experts of MoEF in order to get feedbacks and inputs to INC preparation process
	Research and	Ð	Designs, plans and implements Research	Former coordinator unit of	<ul> <li>Supporting and</li> </ul>

Development Department of Foreign Relations and EU General Directorate of Forestry	ot • • • • • • • • • • • • • • • • • • •	and Development studies, activities in the field of environment and forestry Develops, proposes and implements new projects related to environment and forestry Coordinates and supervises Research Development Department.		<b>5</b> (*	improving
ient are		projects related to environment and forestry  Coordinates and supervises Research  Development Department.	LULUCF Working Group in First INC and LULUCF GHG Inventory		on forest oHG Inve
s a		supervises rtment.	Works in forest monitoring and	_ •	on forest area.
ate ate		rtment.	<ul> <li>Conduct research.</li> <li>Estimate forest carbon</li> </ul>	. =	riepainig a programme for identification
is a			inventory.		
lent ate		Coordinates and supervises Research	<ul> <li>Advisor in policies related to</li> </ul>	•	estimating carbon stock
s all		Institutions working under this body in research areas and gets feedbacks and	?		changes on torest area.
is a		outputs, archives and shares information	Main unit climate change impact on forestry.	<b>v</b>	
ate		Facilitates the communication and	<ul> <li>Coordinates and endorse the</li> </ul>	• •	Assess externally
a ate		ion among key partners	projects on behalf of GEF	<u>.</u>	
ate	_	Evaluate the reports and provides its	Operational Focal Point.		
ate		guidance on planning future activities			the basis of Ministry's
ate	-	Organize the cooperation among Ministry departments, other national or international			and OEF strategies.
ate	-	ns and organizations.	:		-
ate	•	Develops strategies for sustainable	s with tec	• = (	Coordinator body of the
r orestry	ot	ient of forests	expertise related to GHG		working group- VI which
	•	Prepares laws and by-laws for			
	_	management, protection and rehabilitation	released/absorbed from the	<b>a</b>	Land Use Change and
		of forestry.	category of Land Use Change	<u>.</u> ده	45
		Monitors for society.	allu rofestry (LOCr)  Drowides technical support		riovides data for the
	· _	and response measures in terms of		- ·	activities iii ECCI
		of forests	in impact assessment to the	. e	
	_	pasture lands	Forest category and Land		
	•	Ensures a rational utilization of woods used	<ul> <li>Advisor in policies related to</li> </ul>	_	
		מת ב	the development of forestry		
	-	Ensures a rational use of fauna and their	sector, land use management		
		by-products	<ul> <li>Government body works in co- oneration with UN in the areas</li> </ul>	T &	
			of Biological Diversity and		
	+		n on Des	+	,
State Meteorological	-	The TSMS is responsible for building and operating the precipitation.	<ul> <li>Maintains systematical observation of climate</li> </ul>	<u>.</u>	Coordinator of the working group-1 scoped

Relevance to Climate Change Role in the SNC	Conducts research on climate  "Researching the Effects of Climate Change"  Provides information on observed and projected changes in Turkey's climate and coordinates studies related to climate change impacts.  Provides data on observations.	DSI is a member of Coordinator body of the working group X which is scoped with Change (CCCB).  Change (CCCB).  "Adaptation".  Water is cross-sectoral issue for different sectors such as agriculture, health, energy and infrastructure in adaptation. Planning  Water quality and water budget works  Water saving in agricultural systems  Develop Hydro Electric Power Plants (HEPPs) which are renewable energy sources  Flood control and flood forecast Erosion and sediment control works
Responsibility / Field of Activities Relevance to	climatology, synoptic, and higher atmospheric observation stations, keeping the archives of records of these observations, making weather and sea forecasts based on the evaluation of these observations, and informing the public and the relevant organizations about its forecasts. The TSMS conducts research on the areas related to climate, weather and atmosphere.	<ul> <li>DSI is the primary executive state agency of Turkey for Nations overall water resources planning, managing, execution and operation.</li> <li>Carry out the survey and planning for river basin development</li> <li>Prepare master plan and feasibility report to determine technically and economically optimal solutions of water resources project in the river basins.</li> <li>Construct dams (for drinking and industrial water in the river basins.</li> <li>Build irrigation and drainage systems; flood, perform flood forecast surveys;</li> <li>Build irrigation, conservation and utilization of ground water (by the law No 167).</li> <li>Develop all stages of water supply and water treatment plants</li> <li>Make basic investigations such as; Soil classification, -Agricultural economics, -Geological surveys.</li> </ul>
Institution / Department/ Stakeholder/ Organization participant	Service (TSMS)	General Directorate of State Hydraulic Works (DSI)

Role in the SNC		Coordinates the working groups structured under CCCB and ensures the effective working of those during stocktaking exercise and INC	<ul> <li>Member of the working group-VII scoped in the area of "Development of Policies and Strategies"</li> <li>Provides consultation in respective foreign policies and supervises in facilitating Turley's adaptation phase</li> </ul>
Relevance to Climate Change	<ul> <li>Addresses complex problems</li> <li>Ensures ongoing learning and adaptation and integrates activities at various levels</li> <li>Enhances affectivity, utilizes skills, abilities and resources, develops relations with external partners, donor agencies in consultation with Project Management Team</li> </ul>	CCCB is responsible for the preparation of National Communications to the CoP of the UNFCCC stands under the MoEF in accordance with the overall implementation process of UNFCCC	<ul> <li>Provides continuous support, supervision in the process of framework convention in climate change and facilitates the representation of MoEF in the negotiation process</li> </ul>
Responsibility / Field of Activities	-Modeling for water structures,  TAG members will be constituted of MoEF experts who have been involved in the field of climate change.	<ul> <li>Performs and maintains implementation of mitigation and prevention policies against climate change effects</li> <li>Determines and ensures adaptation appropriate interior and foreign policies in order to enable relevant activities more effectively</li> <li>Strengthens the dialogue, information exchange and co-operation among all relevant stakeholders including governmental, academic, private sectors on climate change and related issues</li> <li>Cooperates with key stakeholders in stocktaking preparatory process and plans an effective methodology to get the maximum output especially from the Technical Working Group</li> </ul>	Authorized body responsible for execution of foreign policies and strategies of Republic of Turkey and briefly tasked with following activities:  Develops and implements foreign strategies and policies of Turkey  Coordinates and facilitates the membership procedures of Turkey to the international
Department/ stakeholder/ participant	Technical Activity Group		In general
Institution / Organization		Coordination Board on Climate Change(CBCC)	Ministry of Foreign Affairs(MFA)

Institution / Organization	Department/ stakeholder/ participant	Responsibility / Field of Activities	Releyance to Climate Change	Role in the SNC
		conventions, protocols  Act as an overall focal point in coordination of the collaboration between homologue ministries of other countries, international institutions and facilitates procedures of participation of Turkey representatives to the international meetings, conferences, training, workshops and seminars		<ul> <li>Feedbacks in stocktaking report prepared</li> </ul>
Ministry of Energy and Natural Resources (MENR)	General Directorate of Energy Works (EIGM)	Responsible for energy policy formulation and monitoring tasks (e.g. internal energy market), as well as for subsectoral work (eg solid fuels restructuring, nuclear energy, promoting energy efficiency and the use of renewable energy).	<ul> <li>Develops GHG reduction policies and incentive programs</li> <li>Performs energy demand model studies and make cost-benefit analysis in order to determine convenient adaptation measures and programs</li> <li>Participates in works on GHG emissions inventory and development of projects on their reduction</li> </ul>	<ul> <li>Coordinator of the working group-IV scoped in "Mitigation of Greenhouse Gasses from Energy Sector"</li> <li>Provides the energy related inventory data and projections for stocktaking report</li> </ul>
	Electricity Generation Co. Inc. (EUAS)	Provides services on national scale in electricity generation areas.	Ensures adaptation programmes and abatement measures for climate change effects	<ul> <li>Provides inventory data in the electricity generation area</li> <li>Proposes strategies and promotes incentive mechanism for future activities in terms of</li> </ul>
	General Directorate of Electrical Power Resources Survey and Development Administration (EIE)	Follows up energy consumptions and demands of industry, building and service sectors, monitors and supervises energy efficiency activities in general.	<ul> <li>Coordinates energy efficiency activities</li> <li>Develops and implements energy efficiency activities in industry, building and service sectors</li> <li>Sets up adaptation programs for GHG reduction</li> </ul>	<ul> <li>Coordinator of the working group- VIII scoped in "Mitigation of GHG from Industry, Building, Waste Management and Service Sector"</li> <li>Provides data in industry, building, service sectors</li> </ul>

Institution Organization	Department/ stakeholder/ participant	Responsibility / Field of Activities	Rek	Relevance to Climate Change	Role in the SNC	
	Stratogio	Have reconcibilities for recessry njaming and		Contributes with receased and	Drovides required data by	\$ \$
	Development	coordination activities in energy area. Develops	) 	planning activities in the area		and o
	(SDD)	projects and programmes as required.			Assists to EIGM	.E
				MENR bodies	planning of adaptation program implementations	tation
					in energy sector	
Ministry of		<ul> <li>Develops and designs national policies for</li> </ul>	•	Develops adaptation programs	tor	the
Transport		sustainable development of the transport	•	in transport sector	working gro	group-V
				to transport activities through	is Dep	tment
		■ Designs transport master plans for each		formulated models	eq	ation
		transport method/ way (road, maritime, air)	•	Advises the sector and	and Adaptation	Jo
		<ul> <li>Designs and implements measures for rehabilitation of road network:</li> </ul>		regulates mingation measures for climate change effects	Greenhouse gasses from Transportation"	
		<ul> <li>Prepared legislations and maintains</li> </ul>	•	Seeks for possibilities of	<ul> <li>Provides stocktaking data</li> </ul>	3 data
		regulations for the implementation of the		introduction of new environmentally sound	of transport sector	
Ministry of	General	<ul> <li>Responsible body for preparing the</li> </ul>	ŀ	Prepares legislative framework	<ul> <li>Member of the working</li> </ul>	rking
Public Works and	Directorate of	related to		cts GHG mitiga	scope	ᆵ.
Settlement	Construction	construction sector, including construction		actions at residential and	"Mitigation of GHG	GHG
(ivir wa)	Allalls	Prepares architectural and engineering	•	Develops and implements	Waste Management and	and
		dering		0	Service Sector"	
		and technical acceptance of construction		ntation of	Έ.	in in
		and repair activities of public buildings.		Directive on Energy	the settlements	and
				remormance in the Buildings in evicting and new building	OUITOINES STOCKTAKINE	
				stock"		
			•	Certify the buildings according		100
				to their energy pertormance to		9,5.5
				energy in buildings within the		
				framework of the		
				implementary regulation		

Institution / Organization	Department/ stakeholder/ participant	Responsibility / Field of Activities	Relevance to Climate Change	Role in the SNC
			published on December 5, 2008	
	General Directorate of	Develop the "Integrated Urban Development Strategy and Action Plane"	Integrates comprehensive	Member of the working
		for Sustainable Urban Development.	environmentally sound, energy	ä
	Research and	■ Determines the legal framework and	efficient and ecologically	from Industry, Building,
	Implementation	principals related to buildings, urban, rural	balanced strategies to the	Waste Management and
		and coastal areas planning and regeneration	framework of sustainable urban	
			development policies.	At Working Group VI
		and methods for all buildings in their pre-	in the planning legislation in	nrevention of urban
		construction, in construction and post-	order to promote the use of	sprawl, pro
		construction process with relation to	renewable energy resources in	rural and
1000		building licensing and preparation of		be included in the spatial
		projects.	sector	planning legislation
		<ul> <li>Prepare master plans intended for the</li> </ul>	<ul> <li>Makes necessary arrangement</li> </ul>	
		public investments	on legal principles and methods	
			to increase the efficient use of	
			energy and climate resilient,	
			and preparation of building	
1-	General	<ul> <li>Providing emergency aid and securing</li> </ul>	<ul> <li>Adaptation to disasters</li> </ul>	Creating and analyzing a
	Directorate of	on among the		disaster inventory
	Disaster Affairs	fter a disas		database
		<ul> <li>Implementing the measures to provide</li> </ul>		■ Mapping disaster prone
		temporary shelter immediately after the		
		disaster and undertaking the reconstruction		
		and rehabilitation activities of damaged		measures for disaster
		housing, work places and infrastructural		reduction to form and
		facilities,		revise regulations
		easures to realise and		■ Preparing avalanche
		planning, project preparation,		danger maps in 1/25.000
		activities in disaster areas as well as in		Establishing automatic
		a Deformining the potential disorter areas		nivo-ineteorological
		- Determining the potential disaster areas		

partment/ keholder/ Responsibility / Field of Activities Relevance to Climate Change Role in the SNC	and taking the necessary precautions for preventing disasters and minimizing the loss of life and property,  Development of seismological and strong ground motion network for the country, establishment of a national information centre of processing of all kinds of earthquake catalogues and earthquake catalogues and earthquake hazard maps of Turkey,  Establishment of regional centres for the production and storage of prefabricated structural elements aiming at the accommodation of people and coordination of emergency assistance in cases of disasters.	The State Planning Organization (SPO), affiliated to the Prime Ministry, develops macro level policies by preparing long-term development plans and annual programmes that are accepted as the basic instruments of government policies in economic, and cultural policies, to ensure efficient and cultural policies, to ensure efficient plans and strategies with due emphasis on economic, social and cultural policies, and external finance (credit, grant and external
Department stakeholder/ participant		
Institution / Organization		State Planning Organization

Role in the SNC	<ul> <li>Coordinator of the working group-II scoped in "Inventory of Greenhouse Gasses"</li> <li>National focal point of UNFCCC for national inventory since 2009</li> <li>Calculates, validates and provides overall inventory data for stocktaking report</li> </ul>	Activity data provider specially for industrial and trade activities and other related data	<ul> <li>Providing statistical data with regards to education materials with relation to climate change.</li> <li>Providing support to increase the awareness of youth on climate change.</li> </ul>	Providing statistical data with regards to academic materials produced in relation with climate change.
Relevance to Climate Change	<ul> <li>The official source of information on sources of GHG emissions and national circumstances</li> <li>Collection of data on national activity, national circumstances</li> </ul>	<ul> <li>Seeks for possibilities of introduction of new environmentally sound technologies by incentive mechanisms</li> <li>Identifies adaptable mitigation measures in industry and trade sectors</li> </ul>	<ul> <li>Support for education of youth</li> </ul>	<ul> <li>Support for academic research and development.</li> </ul>
Responsibility / Field of Activities	Authorized state organization in collection, calculation and validation of official information sources in available sectors in order to provide and publicize when required.	<ul> <li>Develops and designs national policies for sustainable development of the industry and trade sectors</li> <li>Prepares legislations and maintains regulations for the implementation of the polices and measures to industry and trade sectors</li> </ul>	Plan, implement, monitor and control education and training services targeted at teachers and students at all levels in educational institutions, to open pre-primary, primary, secondary and all kinds of formal and non-formal education institutions and to meet the accommodation and nutrition requirements of and to give financial support to young people in higher education.	The Council of Higher Education was established in 1981. It is a fully autonomous supreme corporate public body responsible for the planning, coordination, governance and supervision of higher education within the provisions set forth in the Constitution (Articles 130 and 131) and the Higher Education Law No. 2547). It has no
Department/ stakeholder/ participant			In general	In general
Institution / Organization	Turkish Statistical	Ministry of Industry and Trade	Ministry of National Education	The Council of Higher Education

Role in the SNC		<ul> <li>Member of the working group-VI which is scoped with "Land use, Land Use Change and Forestry" task</li> <li>Provides data in agriculture and livestock sector</li> </ul>	<ul> <li>Member of the working</li> </ul>
Relevance to Climate Change		mitigation of climate change adverse impacts  Analyses adaptation process and makes cost-benefit analysis on sector basis such as wheat production, livestock's, i.e. Conducts research studies for impacts of climate change in agriculture sector and develops mitigation strategies  Impede rural poverty Soil quality monitoring against climate variability and soil resources in quality and quantity data land use classes according to the IPCC Guideline.	<ul> <li>Conducts and allocates sources</li> </ul>
Responsibility / Field of Activities	political or governmental affiliation. At present, there are 139 universities in Turkey, 45 of which have foundation status.	MARA is the governmental authority for agriculture and food policy in Turkey. Main responsibilities of MARA as follows:  Prepares and implements governmental policies, strategies and action plans for development of agriculture and food sector by targets for  increasing agricultural, livestock, agroindustrial, fishery production  industrial, fishery production  industrial, fishery production  industrial, fishery production  cincreasing agricultural, livestock, agroindustrial, fishery production  propose policies in the respective areas  Conducts standards and propose policies in the respective areas  Designs agriculture and food policies  Drafts laws, by-laws and decisions for development of agriculture and food sector and achievement of the aforementioned targets  Follows-up the implementation of laws, by-laws  Incentives research studies in these areas  Coordinates the cooperation between relevant Ministries, local government, research institutions, and NGOs in terms of the development of Agriculture and Food.  Allocates required resources for mitigation and response measures in terms of protection and monitoring of pasture lands  Ensures a rational use of pastures.	An authorized body of MARA, responsible for
Department/ stakeholder/ participant		In general	General
Institution / Organization		Agriculture and Rural Affairs	

Institution Organization	Department/ stakeholder/ participant	Responsibility / Field of Activities	Relevance to Climate Change	Role in the SNC
	Directorate of Agricultural Production and Development (GDAPD)	research, planning and coordination activities in LULUCF  • Monitors agricultural and pasture lands • Prepares integrated and individual agricultural and rural development projects, make necessary arrangements for implementation of these projects through the Provincial Directorates of Agriculture. • Prepares application projects to improve the utilization of crop, animal and aquacultural resources, increase productivity, crop diversification, improve quality, • Make proposals to the Ministry for establishment of facilities such as crop processing, cleaning, stations, laboratories, to give support for their establishment and to provide technical assistance.	for research and planning activities of research institutes of MARA in terms of enabling LULUCF related inventory and adaptation programmes  Soil quality monitoring against climate variability and soil resources in quality and quantity data land use classes according to the IPCC Guideline.	group-VI which is scoped with "Land use, Land Use Change and Forestry" task  Provides data in agriculture and livestock sector  Training GHG inventory on agriculture, preparing a programme for identification of research needs for estimating carbon stock changes on agriculture.
28	Research, Institute for Agricultural Economy (AERI)	The institute develops and monitors research activities, publishes articles, informative documents for public and agricultural sector.	<ul> <li>Assists with research activities in measuring impacts of LULUCF on climate change</li> <li>Determines gaps and constraints in inventory process related to LULUCF and develops programs and studies to fill these gaps</li> </ul>	<ul> <li>Member of the working group-VI which is scoped with "Land use, Land Use Change and Forestry" task</li> <li>Provides data in agriculture and livestock sector</li> </ul>
Ministry of Health		MoH is the highest government body in health policy making in Turkey and some prior duties of the ministry as follows:  Produces and regulates national health policies for protection of public health and improvement of public health services  Ensures the implementation of legal framework	Researching the Effects of Climate Change which is scoped and responsible for development of health sector and adaptation strategy for this sectors  Takes measures to avoid	Potential data provider for health sector

Institution / Organization	Department/ stakeholder/ participant	Responsibility / Field of Activities	Relevance to Climate Change	Role in the SNC
		<ul> <li>Takes necessary measures concerning environmental health by cooperating with local and relevant institutes.</li> </ul>	adverse effects of climate change on human health	
Turkish Radio and Television Institution (TRT)		State institution providing broadcasting services continuously every day	Provides broadcasting service for publicizing news and presentations, programs in climate change issue	<ul> <li>Member of the working group-VIII scoped in "Education and Public Awareness"</li> <li>Broadens awareness of public in climate change issues</li> </ul>
Municipalities		Authorized body for providing municipal services on district and province scale.	Ensures application of mitigation measures for climate change effects throughout municipalities	<ul> <li>Member of the working group-V scoped with "Mitigation of Greenhouse gasses from Transportation"</li> <li>Provides inventory data in different source categories such as solid wastes, transport, waste water, i.e.</li> </ul>
Bank of Provinces (Iller Bankasi)		Infrastructure projects receives finance from various resources including government, World Bank and various international development banks	Considers and apply adaptable     mitigation measures for GHG     regarding to infrastructure and     rehabilitation projects	<ul> <li>Applies recently developed standards and legislation in new infrastructure projects</li> <li>Provides data in preparation of energy sector inventory</li> </ul>
PROJECT MANAGEMENT TEAM	EMENT TEAM			
3	Project Steering Committee (PSC)	<ul> <li>Chaired by the National Focal Point to UNFCCC and composed of senior official members of the Technical Committee for Climate Change, PSC is to ensure a successful implementation of the UNDPGEF climate change projects and tasked with the following activities:</li> <li>PSC provides assistance and support to the UNFCCC National Focal Point, National</li> </ul>	Facilitates co-ordination, participation and sustainability of the results of the stocktaking texercise project	Ensures coordinated operation of the activities through the Technical Committee for Climate Change (TCCC) which consists of MoEF, MENR, MFA, SPO, SIS and MoT

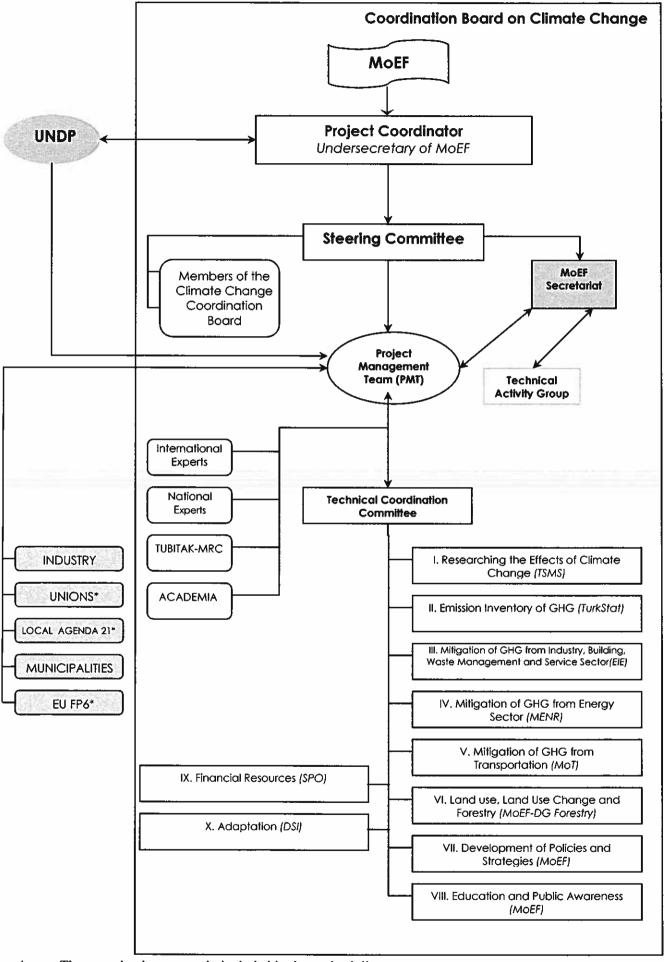
Department/ stakeholder/ Responsibility / Field of Activities Relevance to Climate Change Role in the SNC participant	Project Manager and national experts and counterparts during the implementation process of all project activities  • PSC will oversee monitoring and evaluation of the project, and make necessary comments on all draft documents  • PSC regularly receives information on the status of the implementation of the project activities and problems encountered  • PSC meets at least one time during the project lifetime. In special cases the PSC shall meet upon the initiative of the UNFCCC National Focal Point  • PSC will operate on the basis of consensus in accordance with its Rules of Procedure agreed on its first session  PSC reviews and validates the various components of the Initial National Communication	See ToR for PMT in Appendix D See ToR for PMT in Appendix D Appendix D	rechnical Expert Group(TEG) is reconstituted of TUBITAK-MRC, academia, national and international experts. TEG will contribute to INC process by providing the required areas. The group members will work in consultation with national PMT and will essentially answer the technical expertise needs of TCCC on the base of identified activities of INC process.
Institution / Departmen stakeholde Organization participant		Project Management Team (PMT)	TECHNICAL EXPERT GROUP

Institution / Organization	Department/ stakeholder/ participant	Responsibility / Field of Activities	Relevance to Climate Change	Role in the SNC
N THE PARTY OF THE			inventory, e.i.	
IN FERNAL JONAL ORGANIZATIONS	OKGANIZALION	2		
UNDP	In general	UNDP is government co-operating organization advising the government on policies and institutions to meet development challenges and supervising for working with partners to mobilize talent and resources, and playing the advocacy role through the Human Development Report and the Millennium Development Goals (MDGs).  The main activity areas constituted of poverty, gender and environment that is mainly covers climate change, biodiversity tasks and alternative energy resources, livelihoods, i.e.	<ul> <li>UNDP is a mandate body in GEF funded projects as implementing agency</li> <li>Provides technical assistance in the project implementation process</li> </ul>	<ul> <li>Provides consultation in all steps of stocktaking exercise</li> <li>Validates and feedbacks in stocktaking report of Turkey</li> </ul>
	Local Agenda 21s	As part of an international program of UNDP, the Local Agenda 21 activities are organized under the coordination of the IULA-EMME(International Union of Local Authorities, Section for the Eastern Mediterranean and Middle East) in cooperation with the Governor's Offices and municipalities, and with participation of local people and the NGOs.  • targets for a broad participation of different social groups, as well as cooperation and collaboration between the central government, local authorities and the NGOs  • improves partnerships between the public sector, civil society, and the private sector	■ Contributes in public awareness activities ■ Assists, supervises in the activities carried in collaboration with local organizations and municipalities	Strengthens relations and co-operations with NGOs and municipalities providing support in stocktaking exercise
OTHER STAKEHOLDERS	DERS			
Environmental NGOs	TUCEV(Turki sh National Environmenta		Contributes to public awareness process for climate	Potential data provider     on climate change related

Role in the SNC	ongoing activities, projects implemented by NGOs  Provide collaboration among the relevant NGOs and governmental organizations.	REC is to assist education and public awareness activities in general	Rises climate change awareness in industry and such other sectors
Relevance to Climate Change	<ul> <li>change</li> <li>Provides information on ongoing relevant activities implemented by the organization</li> <li>Collaborates with universities, government and NGOs in terms of developing joint projects of relevance</li> </ul>	<ul> <li>Collaborator regarding issues related to raising of awareness for climate change;</li> </ul>	<ul> <li>Collaborates with industry, service and others sectors in order to develop incentive mechanisms for abatement</li> <li>Strengthens partnerships, promotes developments in projects and programmes for abatement of climate change effects</li> </ul>
Responsibility / Field of Activities		REC office in Turkey is a non-profit organization, has a targets for solving environmental protection problems through promotion of cooperation among NGOs, governmental organizations, business and other stakeholders.  REC supports the exchange of free communication and public participation into environmental decision-making  REC works to enhance the public awareness related to the environmental issues.	Improves and maintains links between government and private sector, civil society and develops partnerships among those
Department/ stakeholder/ participant	l Foundation) DHKD(Turkis h Society for the Conservation of Nature) TEMA, i.e.	Regional Environmenta I Center(REC) TURKEY	Turkish Businessman Association (TÜSİAD), Independent Industrialists' and Businessmen's Association (MÜSİAD), Young Businessmen Association Turkey
Institution / Organization			Unions and other NGOs

Role in the SNC		Collaborates with the respective government bodies involved in INC process and contributes with consultation service and data inputs for stocktaking exercise	Provide input about the recent trends in research and development with regards to low emission technologies to be used in industry and private sector.	Facilitates the stocktaking process with outputs of the relevant projects financed under EU FP7 structure
Relevance to Climate Change		<ul> <li>Develops and implements technical studies in climate change issues</li> <li>Strengthens existing models, methodologies and analysis in Climate Change field</li> <li>Provides policy advise in the development and adaptation of climate change programs</li> <li>Prepares project proposals and publications and articles in climate change issues</li> </ul>	Conducting research and development studies for environmentally friendly and low emission technologies.	Submits and endorses project proposals of climate change activities financed by EU Commission particularly in terms of adaptation of EU directives and standards
Responsibility / Field of Activities		• Primarily provides academic education; designs and maintains research and development studies and activities	■ To contribute to the increase of the Global Competitive Power of Turkey using Science and Technology.	Supervises     institutions/organizations for EU FP7 in order to promote project proposals for EU adaptation programs and allocates resources for implementation
Department/ stakeholder/ participant	(TUGIAD), Turkish Union of Chambers and Commodity Exchanges (TOBB), Turkish Confederation of Employer Associations (TISK) and others		In general	
Institution / Organization		Academia	TUBITAK Marmara Research Center (TUBITAK – MAM)	EU FP7 (European Union - Seventh Framework Programme)

APPENDIX C - INSTITUTIONAL FRAMEWORK for the PROJECT



\* : The organizations recently included in the revised diagram

(): Abbreviations illustrated in the parenthesizes stand for coordinator institution title of working group

## APPENDIX D - Terms of References (TORs)

## 1. TORs for National Project Coordinator

The National Project Coordinator is assigned by Ministry of Environment and Forestry to oversee the project progress and activities.

## **Duration: 18 months**

## **Duties and Responsibilities**

- The National Project Coordinator ensures the coordination of project inputs and outputs between the Ministry of Environment and Forestry (MoEF) and UNDP.
- Maintains close contacts with UNDP indicating foreseeable changes in work-plan and proposing realistic amendments and budget revisions
- Ensures suitable working conditions maintained at the duty station and allocates available facilities enabling PMT to perform on accordance with their job descriptions
- Monitors progress of the project according to the work-plan and informs UNDP in time of any anticipated delays
- Ensures that project activities are conducted and concluded in a timely, satisfactory and coordinated manner
- Ensures compliance with UNDP's NEX procedures
- Facilitates procurement of goods and services and recruitment of project personnel
- Develops and oversees monitoring and evaluation efforts

### **Qualifications and Experience**

- A medium or high level representative from the Climate Department of Ministry of Environment and Forestry.
- A demonstrated ability in managing projects, and in liaising and co-operating with all project personnel including government officials, scientists institutions, NGOs and private sector
- A good knowledge of English is absolutely necessary
- Substantial experience in Government and in inter-departmental procedures preferred
- Familiarity with international negotiations and process under the UNFCCC preferred
- Familiarity with computers and word processing
- Fluency in the government official language

## 2. TORs for Project Manager

Project Manager (PM) is responsible for day-to-day management, co-ordination and supervision of the implementation of the above described project. Specifically, his\her responsibilities are but not limited to the following:

## **Duration: 18 months**

## **Duties and Responsibilities**

- Supervises and ensures the timely and effective implementation of the project activities in accordance with the working plan
- Prepares a detailed work plan for the project (in consultation with the PSC and UNDP)
- Coordinates, oversees and executes the preparation of outputs of the SNC when required
- Prepares technical, policy and briefing paper as requested
- Compiles the scope and content of the overall SNC report and relevant sections in consultation with TEG and the working groups.
- Arranges and controls the scheduled consultations/workshops and ensure their success

- Ensures preparation of the progress reports of the activities performed
- Develops the scope of the work and TORs and other procurement documentation required to identify and facilitate recruitment of experts and consultants
- Coordinates and supports the work of all consulted experts
- Facilitates and moderates the meeting of PSC
- Identifies and hire/subcontract the national consultants and institutions (in consultation with the PSC and UNDP)
- Supervise project support staff national consultants who are recruited to provide technical assistance
- Develops synergy with the relevant ministries, national and international research institutes, NGOs, and other relevant institutions in order to involve their financial and personnel contributions in project activities
- Facilitates cooperation with other projects on the areas of combating desertification, preservation of biodiversity, energy efficiency and energy saving, expanded use of renewable energy resources
- Control the expenditures and otherwise ensure adequate management of the resources provided for the project;
- Summarizes and synthesizes the results of the project;
- Identifies the follow up activities and mobilizes other resources at the extent possible;
- Finalizes the Second National Communication of Turkey along with the government personnel and national consultants
- Ensures that the 2<sup>nd</sup> NC process is in the line with guidance provided by the COP
- Define the role & responsibilities of the stakeholders
- Ensure identification of national priorities

## **Qualifications and Experience**

- A minimum of 10 years of working experience in the area relevant to the project:
- A demonstrated ability in managing projects, and in liaising and co-operating with all project personnel including government officials, scientists institutions, NGOs and private sector
- A very good knowledge of English is absolutely necessary
- Substantial experience in Government and in inter-departmental procedures preferred
- Familiarity with international negotiations and process under the UNFCCC preferred
- Familiarity with computers and word processing
- Fluency in the government official language

#### 3. TORs for Project Assistant

#### Duties:

The SNC project assistant should work in consultation with and under the guidance and supervision of the Project Manager. Specifically, his\her responsibilities are but not limited to the following duties:

#### **Duration: 18 months**

## **Duties and responsibilities:**

- Assists in organization of relevant training and workshops.
- Prepares periodic progress reports
- Assists in developing the scope of work and respective terms of reference for experts;
- Leads the data collection process and follows up the updates
- Ensures synergy with related projects
- Assists in procurement of items and maintains overall budget control
- Assists in process of hiring experts
- Ensure the timely and effective management of the activities as scheduled;
- Incorporates comments received for the draft report

- Preparation of progress reports and final project report reflecting results, lessons learned strategy for further steps to prepare national communications on continuous base.
- Facilitates studies and group work activities between stakeholders and international, local consultants
- Assists with PM in preparing and translating documents and reports related to the project
- Communication with groups experienced in preparation of national communications in different countries and other contacts

#### Qualifications and experience

- Extensive experience with computers, electronic networks and software used for data management and scientific work
- Experience with world wide web and preparation of the information for presentation on web
- Good presentation and communication skills
- Familiarity with environmental issues and international sources of information on climate change related issues
- Ability to speak, read and write in English

#### 4. TORs for Senior Project Adivisor

Senior Project Advisor (SPA) is responsible for co-ordination and supervision of the implementation of the project. Specifically, his/her responsibilities are but not limited to the following:

## **Duration: 18 months**

# The National Project Manager will;

- Coordinate, oversee and execute the preparation of outputs of the INC when required,
- Provide advisory services for technical, policy and briefing papers as requested,
- Compile the scope and content of the overall SNC report and relevant sections in consultation with Coordination Board on Climate Change and working groups,
- Arrange and control the scheduled consultations/workshops and ensure their success,
- Develop the scope of the work and ToR's
- Coordinate and support the work of all consulted experts,
- Facilitate and moderate the meeting of PSC
- Supervise project staff national consultants who are recruited to provide technical assistance,
- Develop synergy with the relevant ministries, national and international research instituties, NGOs
  and other relevant institutions in order to involve their financial and personnel contributions in
  project activities,
- Facilitates cooperation with other projects on the areas of combating desertification, preservation of biodiversity, energy efficiency and energy saving, expanded use of renewable energy resources,
- Summarize and synthesize the results of the project,
- Identify the follow up activities and mobilize other resources at the extent possible,
- Finalize the Second National Communication of Turkey along with government personnel and national consultants,
- Ensure that SNC process is in the line with guidance provided by COP,
- Define the role and responsibilities of the stakeholders,
- Ensure identification of national priorities.

#### **Qualifications and Experience:**

- A minimum of 10 years of working experience in the area of relevant projects, including but not limited to environmental projects,
- A demonstrated ability in managing projects and in liaising and co-operating with all project personnel including government officials, scientist institutions, NGOs and private sector,
- Familiarity with international negotiations and process under the UNFCCC,

- At least a masters degree university degree on environmental sciences, engineering, political science and business administration. PhD in environmental engineering/politics is an asset.
- Substantial experience in government and in inter-departmental procedures.
- Fluency in governmental official language.
- Familiarity with computers and word processing,
- A very good knowledge of English is absolutely necessary,

## 4. TORs for Project Steering Committee

In order to ensure a successful implementation of the UNDP-GEF climate change projects, the Ministry of Environmental and Forestry, acting as a UNFCCC focal point Ministry and the Executive Agency of this Project, will agree on establishment of the Climate Change Project Steering Committee (PSC), to be chaired by the National Focal Point to UNFCCC and composed of senior officials members of the Technical Committee for Climate Change.

The duties and operating rules of the above PSC are as following:

Stand for authorized body regarding project expenditures in accordance with operational principles of UNDP and national implementation

PSC provides assistance and support to the UNFCCC National Focal Point, National Project Manager and national experts and counterparts during the implementation process of all project activities.

- PSC will oversee monitoring and evaluation of the project, and make necessary comments on all draft documents;
- PSC regularly receives information on the status of the implementation of the project activities and problems encountered;
- PSC meets at least one time during the project lifetime. In special cases the PSC shall meet upon the initiative of the UNFCCC National Focal Point;
- PSC will operate on the basis of consensus in accordance with its Rules of Procedure agreed on its first session:
- PSC reviews and validates the various components of the Initial National Communication.

## UNDP country office support services to national execution

- 1. Recruitment of Project Personnel
- Assist in conducting search for suitable candidates (advertisement, website, rosters)
- Assist in preparing ToRs
- Involve in interviewing candidates
- Assist in issuing contracts (when necessary)
- Authorize salary/consultancy fee/missions
- Assess performance

## 2. Sub-contracting/Procurement

- Assist in identifying suitable subcontractors (advertisement, website, posters)
- Assist in preparing ToRs
- Assist in evaluating bids
- Assist in issuing contracts (when necessary)
- Assess sub-contractors work
- Ensure inputs as per contract ToR's
- Ensure payments are made accordingly
- Ensure milestones are met
- Critical review of sub-contractors performance

## 3. Financial Management and Accountability

- Making direct payments and ensuring flow of funds for project activities
- Training of staff of implementing agency on financial disbursement and reporting
- · Financial monitoring and record keeping
- Financial reporting
- Budget revisions
- NEX Audit exercise

#### 4. Training/Workshop

 Making appropriate arrangements for the logistical and technical support of the training and workshop activities

## 5. Equipment

- Review specifications
- Identify suppliers of goods and services
- Approve specifications
- Assist in evaluating contract
- Assist in awarding contract (when necessary)
- Undertake Customs clearance
- Authorize payment

#### APPENDIX E: REFERENCES

## 1-Reference Reports and Publications

Turkey's First National Communication on Climate Change (MoEF, 2006)

Turkey's National GHG Inventory Reports (MoEF, TurkStat, 1990-2006)

Protection of the Atmosphere and Climate Change (Türkes et al 1992)

Energy and Technology Güner Tezcan 1992

National Climate Programme (NCP) 1993,

Declaration of Turkey and Greenhouse Gas Emissions, (FCCC/CP/1997/MISC.3) COP.3

Turkey National Report on Climate Change (ME, 1998), COP.4

The Environmental Success Report of Turkey (1999) of the OECD

The Environmental Profile of Turkey (1999) of the Environment Foundation of key (EFT), combined with the data of (SIS),

National Programme for the adoption of the EU acquis, 2001

9th Development Plan (2007 – 2013), SPO, 2006

Turkey's National Assessment Report on Sustainable Development for the World Summit on Sustainable Development Johannesburg in 2002

Emissions Outlook until 2025 for GHGs and Other Pollutants Turkey, GHG Mitigation, pollution abatement, environmental policies, World Bank Energy and Environment Review

Vizyon 2003 (Tübitak)

ULUSAL ENERJİ REHBERİ, T.C. Enerji ve Tabii Kaynaklar Bakanlığı

ANONYMOUS 1997 (Ministry of Forestry/World Bank); Biodiversity Assessment, Strategy and Action Plan - Turkey, May 3, 1997 draft, Ankara

ECSN (EUROPEAN CLIMATE SUPPORT NETWORK) 1995; Climate of Europe: Recent Variation, Present State and Future Prospects, European Climate Support Network, Nijkerk.

EFT 1995: Environmental Profile of Turkey, Ankara

IEA (INTERNATIONAL ENERGY AGENCY) 1997; CO2 Emissions from Fuel Combustion (1972-1995), Paris.

IEA 1997; Energy Environment Update No.6, Energy/CO2 Forecasts, Paris.

IEA 1997; Energy Policies of IEA Countries Turkey 1997 Review, Paris.

MENR (Ministry of Energy and Natural Resource) 1997; 1970-1996 Energy Balances (Communication to SPO), July 1997

MOE (MINISTRY OF ENVIRONMENT) 1992; National Report to United Nations Conference on Environment and Development (UNCED), Ankara

Turkey National Environmental Action Plan, SPO 1998

COUNTRY BASELINE STUDIES MEDITERRANEAN REGION WATER, WETLANDS AND CLIMATE CHANGE TURKEY BASELINE REPORT ON CLIMATE CHANGE Prepared by: Zinet Selmin BURAK

The TEFER Project (Turkey Emergency Flood and Earthquake Recovery):

Conservation of Biodiversity and Sustainable Development TÜDAV: Turkish Marine Research Foundation

Climate Change and Sustainable Development TTGV: The Technology Development Foundation of Turkey

National Report on Climate Change, (Ministry of Environment November 1998)

National Report on Sustainable Development, (Ministry of Environment, UNDP, July 2002)

Özgüler, H., (Global Climate Change and Possible Impacts on Turkey's Water Resources-DSI Bulletin, June 2002)

Türkes, M.; Possible Impacts of Global Climate Change on Agriculture and Water Resources-Panel on the Impacts of Climate Change on Agriculture, June 2001)

Türkes M.,(Climatic Change Studies and Activities in Turkey; Advanced Zaragoza, 25-29 September 2000)

İklim Değişikliği Özel İhtisas Komisyonu Raporu, DPT, 2000).