

TECHNICAL REPORT :

1- ÇEKÜL and the General Directorate of Forestation and Erosion Control of the Ministry of Forestry have agreed to co-operate in the "77 m² of Land" project and have undersigned a document of agreement on 6/10/1998. (Annex 2) Valid for 5 years, the agreement covers the obligations and tasks to be fulfilled by before mentioned parties. The project site lies in the vicinity of Torul - Kürtün within the boundaries of Gümüşphane township in northeastern Anatolia. It covers the slopes by the river Harbit and the basins of Kürtün and Kirazly dams, which are currently under construction.

The Directorate will be responsible for the implementation of necessary erosion prevention/reduction measures, such as forestation, construction of terraces and banks, growing sainfoin and caparis which are endemic thickets to stronghold the soil in place with deep-delving roots thus resisting erosion, building stone or brushwood fences to slow down rainwater flow. The authorities will cooperate with ÇEKÜL in assisting NGO activities, determining project sites, providing transportation to implementation areas for observation and monitoring groups, supplying information for dissemination. ÇEKÜL will promote the Directorate's activities and their results by disseminating knowledge to the public through publications, posters, conferences and audio-visual material and will conduct campaigns to raise funds to be directed to soil rehabilitation activities.

2- 1978 findings of the General Directorate of Soil/Water depict very critical values in regard to soil erosion in the township of Gümüşphane :

- a) 43 % of the land exceeds critical values in regard to the steepness of slopes and soil erosion. 8.5 % of the total land formation consists of steep slopes, while 8.8 % is very steep and 25.7 % is extremely steep.
- b) While only 100,005 ha. of land is cultivatable (Classes I, II and III), 78,022 ha. is on the borderline (Class IV) and 728,412 ha. of land is uncultivable (Classes V, VI and VII). However, findings reveal that 258,975 ha. of land is currently under cultivation which in turn suggests that 80,948 ha. of pasture and forest land are used for agricultural purposes.
- c) Intense and very intense degrees of erosion is observed over 96.9 % of uncultivable lands. As a result the upper layer of soil is completely lost in these areas while 25-75 % of the lower layer is also carried away by rain and wind.
- d) 53.6 % of the land in the township is very shallow and 30.6 % is shallow. Shallow or very shallow land in this region amounts up to a total 84.2 %.¹

The above findings are proof of the vital importance of erosion control for the environs of Gümüşphane and the appropriate choice of the project site.

3- Erosion control on cultivated lands are under the responsibility of the Ministry of Agriculture while erosion prevention and rehabilitation of river banks and dam areas are conducted by the Ministry of Forestry. Torul - Kürtün vicinity therefore lies within the responsibility of the Ministry of Forestry. In addition to enforcement of measures for the prevention of livestock grazing in forest lands and regeneration of species, the Ministry conducts a series of rehabilitation activities on degraded forest areas as mentioned above

152	İSTANBUL Eyüp	Şah Sultan Camii	↑	V
153	İSTANBUL Eyüp	Şah Sultan Tekkesi	⊗	
154	İSTANBUL Eyüp	Türbe Hamamı (Eski Yeni Hamam)	↻	Ö
155	İSTANBUL Eyüp	Zâl Mahmud Paşa Camii	↑	V
156	İSTANBUL Eyüp	Zâl Mahmud Paşa Türbesi	↑	V
157	İSTANBUL Eyüp	Zâl Mahmud Paşa Medresesi	↑	V
158	İSTANBUL Fatih	Baba Çelebi Medresesi	⊗	
159	İSTANBUL Fatih	Binaemini Sinan Ağa Camii	⊗	
160	İSTANBUL Fatih	Hacegizâde Mescidi	⊗	
161	İSTANBUL Fatih	Hacegizâde Medresesi	⊗	
162	İSTANBUL Fatih	Kadızafe Efendi (Çırçır) Mescidi	⊗	
163	İSTANBUL Fatih	Kadızafe Efendi (Çırçır) Darülkurraı	⊗	
164	İSTANBUL Fatih	Kirmastı Medresesi	⊗	
165	İSTANBUL Fatih	Perviz Efendi Medresesi	⊗	
166	İSTANBUL Fatih	Sa'di Efendi Darülkurraı	⊗	
167	İSTANBUL Fatih	Tütü Kadı Medresesi	↻	V
168	İSTANBUL Fener	Abdi Subaşı Mescidi (Kuburbelli Camii)	↻	
169	İSTANBUL Fener	Kapudan Ali Paşa (Fener İskelesi) Hamamı	⊗	
170	İSTANBUL Fener	Yayabaşı Mescidi	⊗	
171	İSTANBUL Fenerbahçe	Fenerbahçe Sarayı (onarım)	⊗	
172	İSTANBUL Fındıklı	Arab Ahmed Paşa Türbesi	⊗	
173	İSTANBUL Fındıklı	Molla Çelebi (Fındıklı) Camii	↑	V
174	İSTANBUL Fındıklı	Molla Çelebi (Fındıklı) Hamamı	⊗	
175	İSTANBUL Galata	Buğday Anbarı	⊗	
176	İSTANBUL Galata	Rüstem Paşa Kervansarayı (Kurşunlu Han)	↑	V
177	İSTANBUL Galatasaray	Galata Sarayı (onarım)	⊗	
178	İSTANBUL Galatasaray	Memi Kethüda Mescidi	↻	V
179	İSTANBUL Halıcılar	Sultan Selim (I) Medresesi	↑	V
180	İSTANBUL Halıcıoğlu	Kaysunizade Mescidi	↻	V
181	İSTANBUL Halkalı	Halkalıpınar Sarayı (onarım)	⊗	
182	İSTANBUL Halkalı	Odabaşı Köprüsü	↑	KY
183	İSTANBUL Halkalı	Sokollu Mehmed Paşa Sarayı	⊗	
184	İSTANBUL Haramidere	Kapıağası (Haramidere) Köprüsü	↑	KY
185	İSTANBUL Haseki	Haseki Hürrem Sultan Camii	↑	V
186	İSTANBUL Haseki	Haseki Hürrem Sultan Medresesi	↑	V
187	İSTANBUL Haseki	Haseki Hürrem Sultan Mektebi	↑	V
188	İSTANBUL Haseki	Haseki Hürrem Sultan Darüşşifası	↑	S.B.
189	İSTANBUL Haseki	Haseki Bostan Hamamı	↑	Ö
190	İSTANBUL Hasköy	Has Bahçe Yalısı Mahzeni	⊗	

¹Görceliođlu, Dr.Ertuđrul Professor of Soil/Land Management at the School of Forestry, University of Ýstanbul, from a report prepared for ÇEKÜL, February, 1997

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4- With the application of appropriate methods soil erosion is effectively minimized or stopped and usually in a couple of years concrete results can be obtained. Experts from ÇEKÜL's Environmental Committee are assigned to oversee tasks on project sites and will pay regular visits to the region every 6 months to report observations. The reports will further be announced to the public through press releases and ads.

Dr. Ahmet Hýzal is an engineer of forestry, a professor of soil and land management in the Forestry School of the Ýstanbul University. He is author to 38 publications which cover such subjects as erosion, forest hydrology, management of sustainable natural resources and catchments. He is also a member of ÇEKÜL's High Advisory Board. He will furnish consultancy in regard to the project area together with an assistant engineer of forestry assigned by himself. Dr. Hýzal and his team will visit the region in May 1999 and November 1999 to monitor and to submit a report on the ongoing work.




















ÇEKÜL's senior technical employee Ayten Erol will make a preliminary visit to the project area in October 1998 to make observations on site and determine the area to be selected by ÇEKÜL. She will meet and confer with the authorities responsible from the work to be done on the project site. Ayten Erol is an agricultural engineer and working towards her PhD in the Forestry School of the University of Ýstanbul on soil and basin management. She has been working in ÇEKÜL for over a year as a member of the environmental projects team.

5- The promotion campaign is scheduled to start by the end of November 1998. It will be coordinated by Prof.Dr Aysel Ekpi, professor of psychiatry at the Medical School, University of Ýstanbul, a ÇEKÜL Trustee and presently a member of the Executive Board who oversees environmental projects of ÇEKÜL.

The campaign will be organized by the Public Relations Manager Ms.Avniye Tansuđ of ManPR, who has long been a devoted volunteer of ÇEKÜL, also a member of ÇEKÜL's High Advisory Board and the the organizer of the former campaign of the "7 Trees Forest" project.

The campaign will take off with press conferences organized in Istanbul, Ankara and Ýzmir, the three big cities of Turkey. A large group from the press will attend the press conference and members of the ÇEKÜL Board will introduce the project. In the meantime press ads and regular spots in dailies will appear together with documentary announcement films run in major TV networks. The Board members will further appear in talk shows of various networks and give feature interviews to press members to explain the dynamics of the project. In three major cities billboard displays will be used, flags will be posted on major squares and avenues, posters will be distributed nationwide to schools, universities, shopping malls, department stores and appearances in regular fairs will be sought. Brochures, handouts, stickers will be distributed widely. The launching campaign will proceed till the end of December 1998.

Production of 5 films will be undertaken by Mr. Hasan Özgen, an expert documentary film maker, former producer in the National TV Network,TRT, presently the owner of an

191	İSTANBUL Hasköy	Kiremitçi Ahmed Çelebi (Kırmızı Minare) Mescidi		V
192	İSTANBUL Hasköy	Saraçhane Mescidi		
193	İSTANBUL Hasköy	Turşucuzade Hüseyin Çelebi Camii		V
194	İSTANBUL Hocaapaşa	Sofu Mehmed Paşa Sarayı		
195	İSTANBUL İsakapısı	Hadım İbrahim Paşa (Manastır) Mescidi		I.Ü.
196	İSTANBUL İsakapısı	Hadım İbrahim Paşa Medresesi		I.Ü.
197	İSTANBUL Kadirga	Sokollu Mehmed Paşa Camii		V
198	İSTANBUL Kadirga	Sokollu Mehmed Paşa Medresesi		V
199	İSTANBUL Kadirga	Sokollu Mehmed Paşa Tekkesi		V
200	İSTANBUL Kadirga	Sokollu Mehmed Paşa Sarayı		
201	İSTANBUL Kadirga	Rüstem Paşa Sarayı		
202	İSTANBUL Kağıthane	Evvel Bend (Paşa Dere) Kemerli		İSKİ
203	İSTANBUL Kağıthane	Havz-ı Kebir (Büyük Havuz)		İSKİ
204	İSTANBUL Kandilli	Kandilli Sarayı (onarım)		
205	İSTANBUL Kanlıca	Gâzi İskender Paşa Camii		V
206	İSTANBUL Kanlıca	Gâzi İskender Paşa Türbesi		V
207	İSTANBUL Kanlıca	Gâzi İskender Paşa Medresesi		
208	İSTANBUL Kanlıca	Gâzi İskender Paşa Hamamı		
209	İSTANBUL Karagömrük	Barbaros Hayreddin Paşa Hamamı		
210	İSTANBUL Karagömrük	Emir Ali Çelebi Mescidi (Derviş Ali Camii)		V
211	İSTANBUL Karagömrük	Hürrem Çavuş Camii		V
212	İSTANBUL Karagömrük	Mâlul Emir Egendi Medresesi (İncirli Medresesi)		
213	İSTANBUL Karagömrük	Nişancı Mehmed Paşa Camii		V
214	İSTANBUL Karagömrük	Nişancı Mehmed Paşa Türbesi		V
215	İSTANBUL Karagömrük	Sekban Ali Bey Medresesi		
216	İSTANBUL Karagömrük	Üçbaş (Nureddin Hamza) Mescidi		V
217	İSTANBUL Karagömrük	Üçbaş (Nureddin Hamza) Medresesi		V
218	İSTANBUL Karagömrük	Ümm-i Veled Medresesi		
219	İSTANBUL Kasımpaşa	Güzelce Kasım Paşa Camii		V
220	İSTANBUL Kasımpaşa	Güzelce Kasım Paşa Medresesi		
221	İSTANBUL Kasımpaşa	Hasan Çelebi Mescidi (Emin Bey Camii)		V
222	İSTANBUL Kasımpaşa	Piyale Paşa (Tersane) Camii		V
223	İSTANBUL Kasımpaşa	Tersane Zift Mahzeni		
224	İSTANBUL Kasımpaşa	Yahya Kethüda Mescidi (Yahya Kâhya Camii)		V
225	İSTANBUL Kasımpaşa Çeşmesi	Şah Huban Hatun Sarayı		
226	İSTANBUL Kemeraltı	Hayreddin Paşa Hamamı		Ö
227	İSTANBUL Kemerburgaz	Eğri Kemer		İSKİ
228	İSTANBUL Kemerburgaz	Mağlova (Moğolağa) Kemerli		İSKİ
229	İSTANBUL Kemerburgaz	Müderriş Köyü Kemerli (Kovuk Kemer)		İSKİ