

(3) Bearing Capacity of Soil Layers

There are 4 soil layers that can be the foundation ground for structures of the new unit: the clay layer, the sand layer, the gravel layer, and the firm clay layer. Bearing capacity of these layers is shown in Table 3.1.

Table 3.1 Bearing Capacity of Soil Layers

Layer	Position	Layer thickness	Bearing capacity
Clay layer *1	G.L. -5.1 ~ -4.0 m	About 3.0 m	250 ~ 350kN/m ²
Sand layer	G.L. -4.0 ~ -8.0 m	About 3.0 m	200 ~ 300kN/m ²
Gravel layer			450 ~ 550kN/m ²
Firm clay layer	G.L. -8.0 m	Not confirmed	over 450 ~ 550kN/m ² *2

*1: Except organic clay

*2: By dynamic penetration test

The bearing capacity of the upper clay layer differs from the value shown in Table 3.1 when it contains organic clay. Such layer may not be suited for the foundation of important structure. Before implementing the plan, detailed soil surveys should be conducted.

3.2 Geotechnical Survey of 1993

The description below is a modified version of a section in the General F/S report prepared by EGI Rt. in 1993.

(1) Boring and Penetrometer Tests

Boring tests were conducted in 1993 at four locations. Two of them produced satisfactory results, but even these boreholds could not be driven deep enough. In order to explore deeper layers, two dynamic penetrometers were also used.

The penetrometer tests confirmed the existence of a firm clay layer at G.L. -8.00 m below the gravel layer of the Sajo River bank terrace.

The locations of boring and dynamic penetrometer tests were shown in Figure 3.1. Figure 3.5 shows the result of exploration with the dynamic penetrometer.

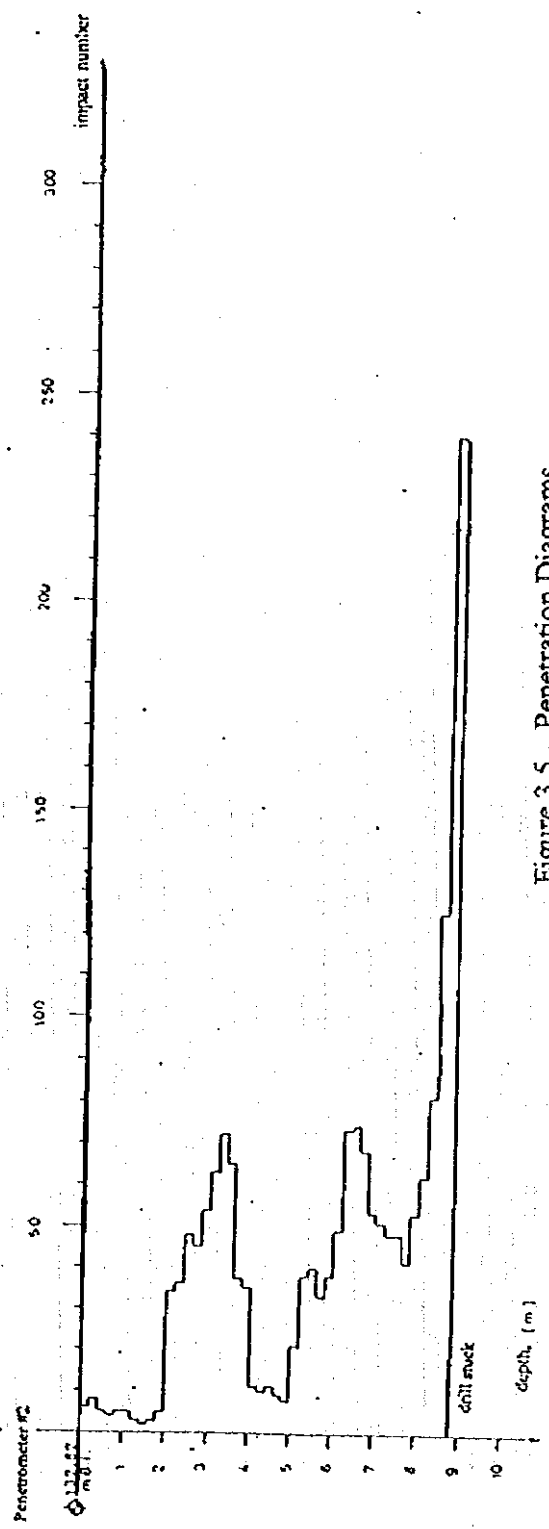
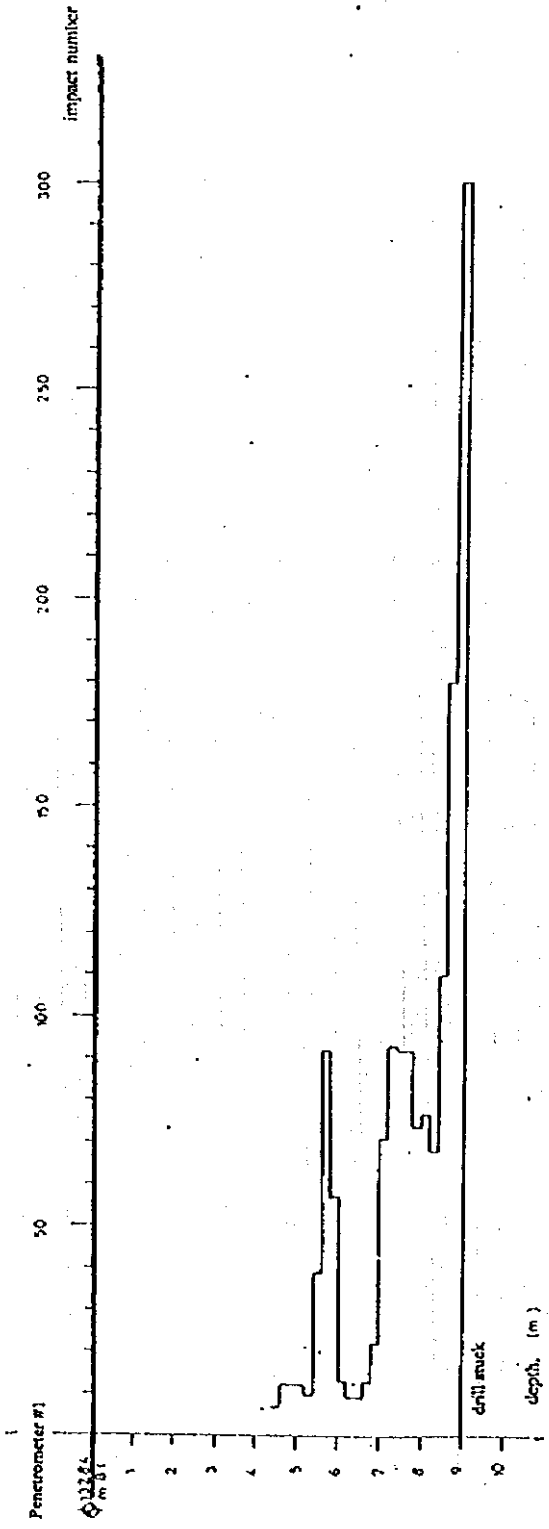


Figure 3.5 Penetration Diagrams

(2) Result of Boring Tests

The results of boring tests at locations IF and VF showed that the site is a reclaimed land of reddish-brown, ash brown, and brown clay backfills down to the depth of G.L. -0.5 ~ -1.5 m.

The boring test VF showed continuation of the clay layer between G.L. -0.5 ~ -5.0m. The soil color varies from brown to red. Sand and gravel are sporadically contained in the clay layer. At G.L. -2.7 ~ -3.7 m, lense-shaped, dark brown, slightly organic medium clay layer was found.

At IF, no such clay layer, as described above, was found. There is a gravel layer under the surface layer at G.L. -1.50 ~ -2.00 m, in which silt and gravel are mixed. The similar layer was observed at G.L. -5.0 ~ -5.6 m of the boring VF.

A yellow sandy gravel layer was found at G.L. -2.0 m of the borehole IF, and at G.L. -5.6 m of the borehole VF. This layer is extremely firm containing stones, and the drilling was stuck in both of IF and VF tests at this layer at G.L. -3.2 m and G.L. -5.8 m, respectively. Soil section between IF and VF is shown in Figure 3.6.

(3) Result of Soil Test

The soil test data of VF are shown below.

Clay

Natural water content	W = 17.1 ~ 21.8 %
Liquid limit	WL = 37.0 ~ 50.0 %
Plastic limit	WP = 17.0 ~ 20.4 %
Plastic index	IP = 20.0 ~ 29.6 %
Consistency index	Ic = 0.95 ~ 0.99 %

Slightly organic clay

Natural water content	W = 22.5 %
Liquid limit	WL = 48.3 %
Plastic limit	WP = 22.1 %
Plastic index	IP = 26.2 %

Boring IF
132,98

Boring VF
132,84

m. B.f.

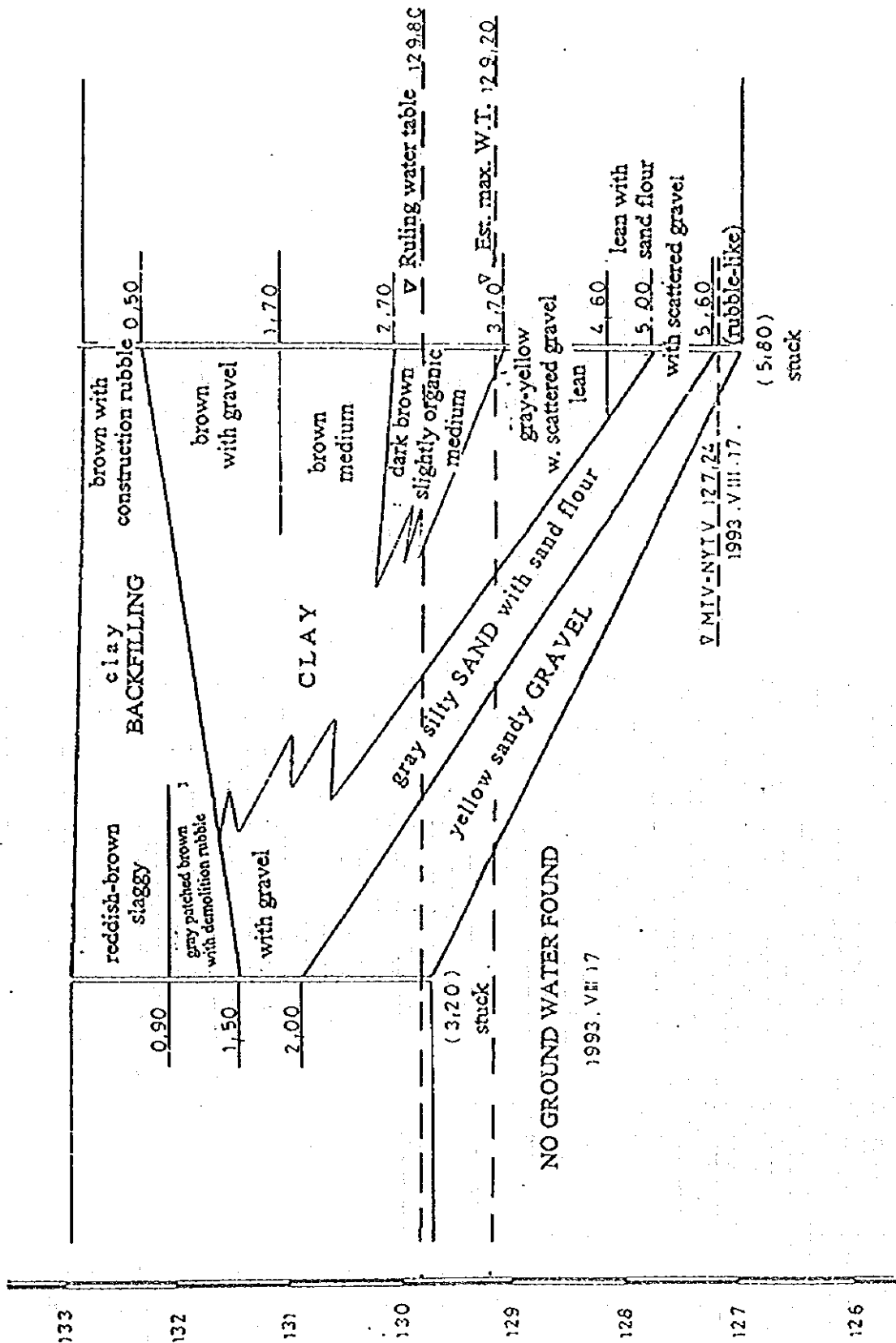


Figure 3.6 Soil Section

Consistency index	Ic = 0.98 %
Organic matter content	Iom = 6.0 %
Porosity	e = 0.67
Degree of saturation	S = 0.91
Density	$\rho = 2.01 \text{ t/m}^3$

Sand

Gravel	2 ~ 19 %
Sand	46 ~ 58 %
Fine sand	20 ~ 28 %
Silt	12 ~ 15 %
Uniformity coefficient	U = 11.3 ~ 25.7

Figures 3.7 and 3.8 show the result of the physical test of soil.

(4) Water Table and Others

Boring VF confirmed the groundwater level at G.L. -5.6 m. The elevation of the groundwater level is 127.24 mBf. The highest water level of the Sajo River at Sajoszentpeter is 125.72 mBf. Though there is no official groundwater observation well in Kazincbarcika, the data of the observation well in Sajokaza shows that the fluctuation range of the groundwater level is 3.82 m, from which the fluctuation range in Kazincbarcika is estimated to be 3 ~ 4 m. Therefore, the highest groundwater level in the tested area is estimated to be 129.20 mBf. Since the reliability of this value is considered to be around 60 %, the highest design groundwater level for this area is set to 129.8 mBf.

Soil layers in certain places contain chemical substances that may have harmful effects on concrete structures. Therefore, it is essential to take appropriate measures against these effects.

(6) Recommendations

The foundations for structures can be basically of the slab type. The foundation planes should be under the backfilled surface layer and the layers containing organic materials. The foundations of structures near the boring VF should be placed below -3.70m since the "slightly organic medium clay" layer is located above this elevation. In particular, the location of the proposed stack foundation should be decided by

detailed study on the soil stability. To avoid a tilt of the stack, the stack foundation should have a large base area.

The preliminary basic values for the bearing capacity of natural soil layers are as follows.

Lean and medium clay	$\sigma = 250 \sim 350\text{kN/m}^2$
Sand with sand flour and silt	$\sigma = 200 \sim 300\text{kN/m}^2$
Sandy gravel	$\sigma = 450 \sim 550\text{kN/m}^2$

For basic and detailed designs of the foundation of the proposed stack, deep boring test should be conducted at the center of the foundation of the stack. If the layout is to be changed substantially, soil surveys must be made for the new location.

Through the design and construction, due attention should be paid for the groundwater level in the site. If the foundation is to be located below the design groundwater level mentioned before, the detailed study on the groundwater must be made for the design. It is also necessary to take appropriate measures to prevent erosion of concrete structure located below the groundwater level.

During the construction, temporary structures such as earth retaining walls with sheet piles should be provided when the excavation works are to be made at a depth of more than 2 m ensuring the safety and efficiency of the works. Even when the excavation depth is less than 2 m, the earth retaining work should be done with thick plates or sheet piles to ensure the safety of workers because the surface layer consists of backfilled soil.

PARTICLE DISTRIBUTION FOR GRAINY MATERIALS, NATURAL WATER CONTENT AND CONSISTENCY LIMITS FOR BOUND MATERIALS

Borehole section based on borehole VF
 Location: Kazimbarika, Borsod Power Plant
 Date of recovery: 17 August 1993
 Benchmark: 132.84 mBf

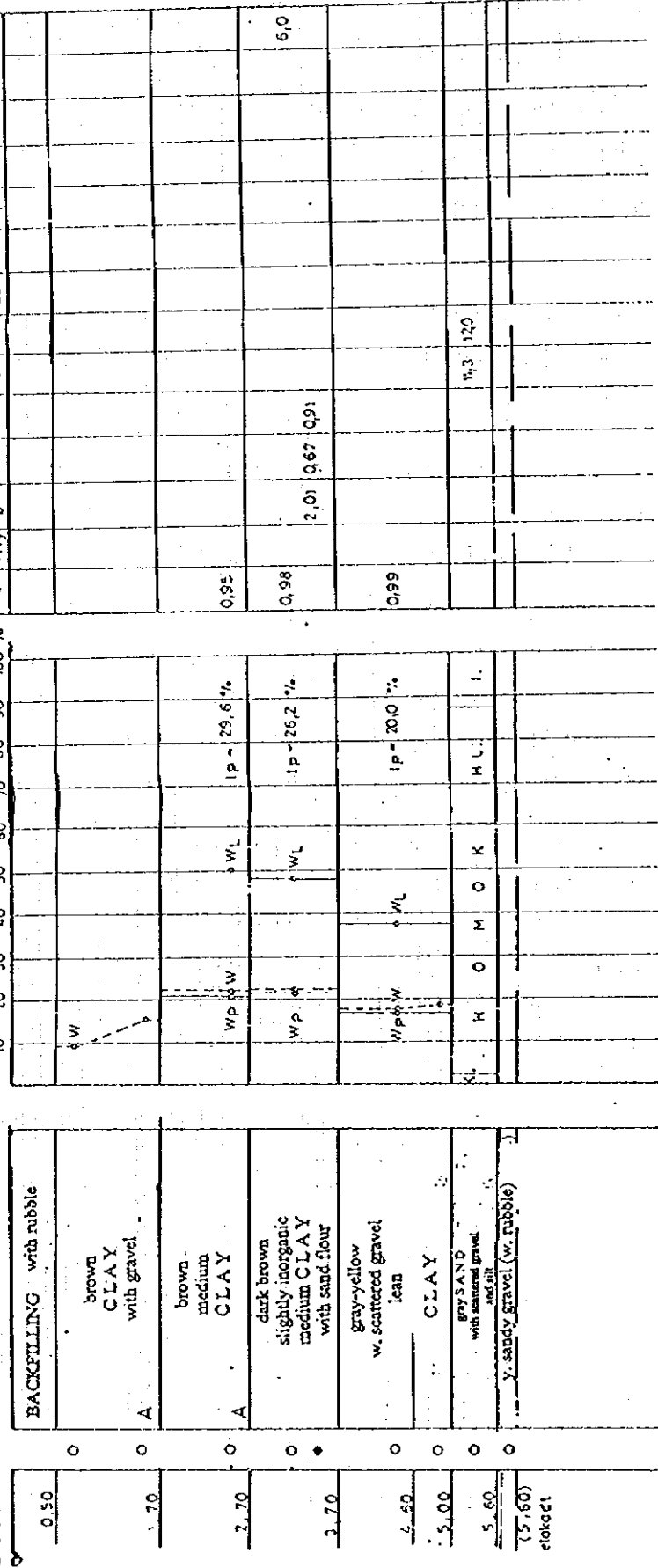


Figure 3.7 Boring Log (VF)

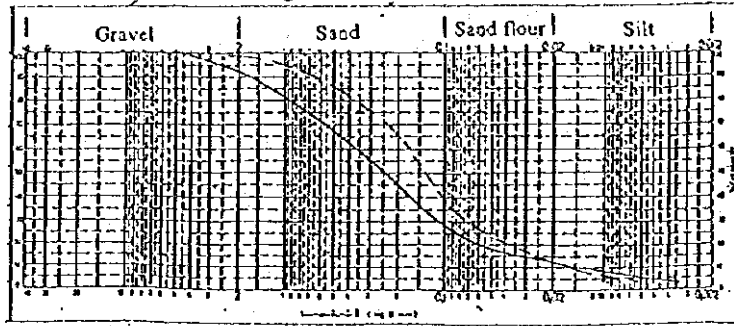


Figure 3.8 Grading Curves (Gray Sand) 5.00 m ~ 5.60 m

4. List of Hungarian Suppliers for Thermal Power Plants

4.1 Suppliers of Main/Auxiliary Systems and Parts

POSSIBLE HUNGARIAN SUPPLIERS OR REPRESENTATIVE OFFICES OF MAIN/AUXILIARY SYSTEMS & PARTS OF A THERMAL POWER PLANT

ITEMS	SUPPLIER	REMARKS/OTHERS
Boilers up to 670 t/h (186 kg/s) output	GANZ-RÖCK Boiler and Power Equipment Ltd. 1138. Budapest Meder u. 9. H-1396 Budapest 62. PO Box.: 461 T.: 270-3111 F.: 120-1638	2-3 smaller organizations for boilers of max. 20 t/h output are available on the market
Heating equipment/Burners oil and gas burners	VEIKI - Institute for Electric Power Research 1158 Budapest, Késmárk u. 7. T.: 417-5257 F.: 417-6878 TÜKI - Company for Combustion Research and Development 3515 Miskolc - Egyetemváros T.: 06-46-369-822 F.: 06-46-360-360	oil- and gas burners and dual burners with various safety, control and regulation automatics
Turbines	ABB - Power Generation Ltd. / ABB - Láng Ltd./ H-1138 Budapest, Váci út 152-156 H-1558 Budapest 139., PO Box.: 95. T.: 269-8717 F.: 269-8716 ABB - Asea Brown Boveri Ltd. 1138 Budapest, Váci út 152-156 T.: 270-1555 F.: 269-8716	former Láng Machine Works <i>steam turbines</i> <i>gas turbines</i>
Condenser	GANZ-RÖCK Boiler and Power Equipment Ltd. ABB - Power Generation Ltd. / ABB - Láng Ltd./ Uniwatt Tüzeléstechnikai és Környezetvédelmi Kft. 1139 Budapest, Frangepán u. 12-14. T.: 140-9260 F.: 129-1411	

POSSIBLE HUNGARIAN SUPPLIERS OR REPRESENTATIVE OFFICES
OF MAIN/AUXILIARY SYSTEMS & PARTS OF A THERMAL POWER PLANT

ITEMS	SUPPLIERS	REMARKS/OTHERS
<i>Pumps</i>	<p>GRUNDFOS Budapest Office 1184 Budapest, lakatos u. 65. T.: 290-7904 F.: 290-5534</p> <p>KSB Pumps and Fittings Ltd. 1147 Budapest, Bocskai u. 17. Budapest, 1519 PO. Box.: 462 T.: 209-3736 F.: 209-3778</p> <p>SULZER Budapest Office 1012 Budapest, Logodi u. 46. T.: 118-4011 F.: 156-7256</p>	<p>Feed water pumps Make-up water pumps Cooling (Circulating) water pumps</p>
<i>Machine house Vessels</i>	<p>GANZ-ROCK Boiler and Power Equipment Ltd. Termáltechnika Szövetkezet 6771 Szeged - Szőreg, Magyar u. 127. T.: 06-62-405-592 F.: 06.62-405-592</p>	
<i>Control valves/Devices</i>	<p>IWKA Szabályozás és Kompenzátor Kft. H-1138 Budapest, váci út 206. H-1327 Budapest, Pf.: 59. T.: 140-2765 F.: 140-8198</p> <p>ADAMS ARMATUREN Hungary Office H-1028 Budapest, Szabadság u. 34. T.: 275-8972 F.: 397-2221</p> <p>BTG Budapest office 1031 Budapest, Pákász u. 1. T.: 160-7635 F.: 160-7635</p> <p>SULZER Budapest Office</p>	

**POSSIBLE HUNGARIAN SUPPLIERS OR REPRESENTATIVE OFFICES
OF MAIN/AUXILIARY SYSTEMS & PARTS OF A THERMAL POWER PLANT**

ITEMS	SUPPLIERS	REMARKS/OTHERS
<i>Cooling tower/Devices</i>	<p>GEA-EGI Contracting-Engineering Co. Ltd. H-1027 Budapest, bem rkp. 53/54. T.: 201-6011 F.: 201-9216</p> <p>VEIKI - Thermal Power Division 1078 Budapest, Murányi u. 47. T.: 461-3050 F.: 461-3060</p> <p>Q-PLAN Kft. 1031 Budapest, kazal u. 129. T.: 188-2643 F.: 188-2643</p>	
<i>Chimney</i>	<p>31. ÁÉCS KFT. 1052 Budaöpest, Petőfi S. u. 7. T.: 118-4794 F.: 118-5587</p>	
<i>Fly ash collection & transportation</i>	<p>ERŐTERV-WAAGNER BIRO Kft. H-1152 Budapest, XIII. Victor H. u. 18-22. T.: 149-6141 F.: 149-7980</p> <p>GEA-EGI Contracting-Engineering Co. Ltd. TKF- Technológiai és Környezetvédelmi Fejlesztő Kft. 1034 Budapest, Bécsi út 126/128. T.: 168-7641 F.: 250-0282</p>	<p>FLS Mijlo WALTHER & LURGI ABB SES eez s.r.o CSÖSZER are also represented in Hungary</p>
<i>Fans</i>	<p>Szellőző Művek Kft. 1116 Budapest, Építők u. 8-12. T.: 204-5952 F.: 204-8964</p> <p>Ventilfit Légttechnikai Berendezéseket Gyártó Kft. 4080 Hajdúnánás, Fürdő út 1. sz. T.: 06-52-381-160 F.: 06-52-381-840</p>	

**POSSIBLE HUNGARIAN SUPPLIERS OR REPRESENTATIVE OFFICES
OF MAIN/AUXILIARY SYSTEMS & PARTS OF A THERMAL POWER PLANT**

ITEMS	SUPPLIERS	REMARKS/OTHERS
<i>Insulation & Refractory Lining</i>	<p>Hőtechnika Építő és Szigetelő Vállalat 1075 Budapest, Wesselényi u. 2. T.: 322-7673 F.: 322-7478</p> <p>Plitech Tűzelőanyaggyártó Kft. [Piibrico] 9023 Győr, Richter J. u. 5. T.: 06-96-315-812 F.: 06-96-310-024</p> <p>Rheinhold & Mahla Építő és Szigetelő Kft. 1106. Budapest, Akna u. 2-4. T.: 157-5811 F.: 127-6248</p> <p>RATH Hungaria Kft. H-1106 Budapest, Porcelán u. 1. T.: 262-2552 F.: 261-9052</p>	
<i>Generator(s)</i>	<p>GANZ-ANSALDO Villamossági Rt. 1024 Budapest, Lovóház u. 59. T.: 175-3322 F.: 156-2989</p>	
<i>Transformers</i>	<p>GANZ-ANSALDO Villamossági Rt.</p>	main transformers
<i>Auxiliary transformers</i>	<p>CSEPELI TRANSZFORMATOR GYAR Rt. 1214 Budapest, II. Rákóczi F. út 189. T.: 277-5171 F.: 276-0245</p>	
<i>Bus-bars/- ducts</i>	<p>MERLIN-GERIN VERTESZRt. 1116 Budapest, Fehérvári út 108/112. T.: 181-1920 F.: 161-2877</p>	
<i>Brakers</i>	IMPORT ONLY	

**POSSIBLE HUNGARIAN SUPPLIERS OR REPRESENTATIVE OFFICES
OF MAIN/AUXILIARY SYSTEMS & PARTS OF A THERMAL POWER PLANT**

ITEMS	SUPPLIERS	REMARKS/OTHERS
MW SWITCHGEARS	<p>SIEMENS Rt. 1036 Budapest, Lajos u. 103. T.: 457-1400 F.: 457-1401</p> <p>MERLIN-GERIN VERTESZ Rt. VAV-UNION Kft. 1112 Budapest, Kőéberki u. 36. T.: 165-4987 F.: 165-4857</p> <p>AEG-UNION Kft. 6050 Kunszentmiklós, Kossuth u. 60. <i>Budapest Office</i> T.: 175-4774 F.: 202-5842</p>	
AC SYSTEM (400 V)	<p>SIEMENS Rt. 1036 Budapest, Lajos u. 103. T.: 457-1400 F.: 457-1401</p> <p>MERLIN-GERIN VERTESZ Rt. VAV-UNION Kft. 1112 Budapest, Kőéberki u. 36. T.: 165-4987 F.: 165-4857</p> <p>AEG-UNION Kft. 6050 Kunszentmiklós, Kossuth u. 60. <i>Budapest Office</i> T.: 175-4774 F.: 202-5842</p>	
DC batteries	IMPORT ONLY	
DC chargers	<p>AEG-UNION Kft. MERLIN-GERIN VERTESZ Rt.</p>	

**POSSIBLE HUNGARIAN SUPPLIERS OR REPRESENTATIVE OFFICES
OF MAIN/AUXILIARY SYSTEMS & PARTS OF A THERMAL POWER PLANT**

ITEMS	SUPPLIERS	REMARKS/OTHERS
<i>Protection systems</i>	PROTECTA Kft. 1158 Budapest, Késmárk u. 7. T.: 183-1371 F.: 183-1371	
<i>Control systems</i>	PROLAN Kft. 1034 Budapest, Seregély u. 24. T.: 168-6245 F.: 168-6248	
	EN-CONT Kft. 1115 Budapest, Bánk u. 17. T.: 269-8070 F.: 269-8070	
	FESTO Automatika Kereskedelmi és Szolg. Kft. 1034 Budapest, Bécsi út 100. T.: 250-0055 F.: 250-1595	
	FISHER-ROSEMOUNT Kft. 1146 Budapest, Erzsébet királyné útja 1/c. T.: 153-1190 F.: 153-1098	
	HONEYWELL Szabályozástechnikai Kft. 1133 Budapest, Gogol u. 13. T.: 152-6363 F.: 252-1541	
	MANNESMANN HARTMANN & BRAUN 1026 Budapest, Pasaréti út 63. T.: 275-1285 F.: 181-0180	
	MERLIN-GERIN VERTESZ Villamossági Rt. 1116 Budapest, Fehérvári út 108/112. T.: 161-1426 F.: 181-0180	

**POSSIBLE HUNGARIAN SUPPLIERS OR REPRESENTATIVE OFFICES
OF MAIN/AUXILIARY SYSTEMS & PARTS OF A THERMAL POWER PLANT**

ITEMS	SUPPLIERS	REMARKS/OTHERS
<i>Control systems</i>	<p>OMRON Electronics Kft. 1131 Budapest, Rokolya u. 1-3. T.: 129-5492 F.: 129-8454</p> <p>SBA Kereskedelmi és Műszaki Szolgáltató Kft. 1026 Budapest, Küküllő u. 2. T.: 393-1178 F.: 393-1185</p> <p>SIEMENS Rt. 1036 Budapest, Lajos u. 103. T.: 457-1400 F.: 457-1401</p> <p>VEIKI Rt. Irányítástechnikai Laboratórium 1051 Budapest, Zrínyi u. 1. T.: 117-8867 F.: 117-2507</p> <p>WESTINGHOUSE Process Control Systems 1143 Budapest, Stefánia út 65. T.: 251-4337 F.: 252-9289</p> <p>ETV-EROTERV Rt. 1094 Budapest, Angyal u. 1-3. T.: 218-5555 F.: 215-1854</p> <p>MMG AUTOMATIKA MŰVEK Rt. 1037. Budapest, Szépvölgyi út 41-43. T.: 188-7241 F.: 168-7685</p> <p>MVA Micronetics Világi Automatizálási Rt. 1134 Budapest, Klapka u. 1-3. T.: 149-8343 F.: 131-5114</p>	<p>new address: 1011 Geellérthegy u. 27. (after Jan. 15th 1997.)</p>

**POSSIBLE HUNGARIAN SUPPLIERS OR REPRESENTATIVE OFFICES
OF MAIN/AUXILIARY SYSTEMS & PARTS OF A THERMAL POWER PLANT**

ITEMS	SUPPLIERS	REMARKS/OTHERS
<i>Tarif metering devices</i>	IMPORT ONLY	
<i>Disturbance recorders</i>	IMPORT ONLY	
<i>Cables (of all sorts)</i>	HUNGARIAN CABLE WORKS Co. Ltd. H-1116 Budapest, Barázda u. 38. T.: 209-1020 F.: 209-0663	(H-1523 Budapest P.O.Box.: 13.)
<i>Erection (electric)</i>	ÉDÁSZ Rt. 9027 Győr, Kandó K. u. 13. T.: 06-96-328-855 F.: 06-96-327-266	
	TITÁSZ Rt. 4024 Debrecen, Kossuth u. 41. T.: 06-52-410-011 F.: 06-52-414-031	
	EMASZ Rt. 3525 Miskolc, Dózsa György u. 13. T.: 06-46-327-611 F.: 06-46-347-265	
	TRANSELEKTIRO Kereskedelmi Rt. 1015 Budapest, Nádor u. 13. T.: 269-1749 F.: 269-1750	

**POSSIBLE HUNGARIAN SUPPLIERS OR REPRESENTATIVE OFFICES
OF MAIN/AUXILIARY SYSTEMS & PARTS OF A THERMAL POWER PLANT**

OTHERS

ITEMS	SUPPLIERS	REMARKS/OTHERS
<p><i>Design (basic, detailed)</i></p>	<p>EIV-ERŐTÉR V Rt. 1094 Budapest, Angyal u. 1-3. T.: 218-5555 F.: 215-1854</p>	
	<p>GEA-EGI Contracting-Engineering Co. Ltd. H-1027 Budapest, Bem tkp. 33/34. T.: 201-6011 F.: 201-9216</p>	
	<p>GANZ-RÖCK Boiler and Power Equipment Ltd. 1138. Budapest, Meder u. 9. H-1396 Budapest 62. PO Box.: 461 T.: 270-3111 F.: 120-1638</p>	
	<p>TRANSELEKTRO Kereskedelmi Rt. 1015 Budapest, Nádor u. 13. T.: 332-819 F.: 131-6367</p>	
	<p>CALORING SYSTEM PLANNING 1045 Budapest, Zichy M. u. 26. T.: 189-6702 F.: 251-0966</p>	

MILLS/CRUSHERS

	<p>APRITÓGEPEGYAR Rt. 5101 Jászberény, Pf.: 65. T.: 06-57-312-555 F.: 06-57-312-182</p>	
--	--	--

4.2 Suppliers of Goods or Services

<i>Ser. N°</i>	<i>Name of Supplier</i>	<i>Goods or Services</i>
01.	BKG Rt. 1183 Budapest, Gyömrői út 79-83. T.: 290-1858 F.: 290-3353	Technological/electrical/control erection
02.	BVG Rt. 1103 Budapest, X. Gyömrői út 76-80. T.: 261-3005 F.: 262-2305	Storage tanks implementation
03.	TVG Rt. 8660 Tab P.O.Box: 6. T.: 06-84-320-210 F.: 06-84-320-624	Manufacturing storage tanks
04.	VEGYÉPSZER Rt. Budapest, XIV. Hungária krt. 179-187. T.: 252-1989 F.: 252-1297	Construction, technological. erection, public utilities
05.	MELDETECHNIK Kft. 1116 Budapest, Építész u. 8-12. T.: 204-5963 F.: 204-5966	Control, instrumentation, property defence
06.	ACTEON Kft. 1116 Budapest, Mohai út 28. T.: 209-3232 F.: 203-0242	Double bottom for storage tanks
07.	SZAVILL Kft. 4405 Nyíregyháza, Tünde u. 3. T.: 06-42-460-017 F.: 06-42-460-017	Heavy current erection, 0,4 kV distribution systems
08.	FAJRO Kft. 1097 Budapest, Timót u. 6. T.: 280-6799 F.: 280-6807	Control, instrumentation, fire protection/extinguishing
09.	MONTÁZS Kft. 6000 Kecskemét, Deák Ferenc tér 5. T.: 06-76-482-055 F.: 06-76-482-055	Water-drainage systems, central heating, gas, air conditioning, electrical erection
10.	MERLIN GERIN VERTESZ Rt. 1116 Budapest, Fehérvári út 108-112 T.: 161-1426 F.: 206-6234	Switch yards, control manufacturing and erection
11.	NYÍRÉP Kft. 4403 Nyíregyháza, Tünde u. 18. T.: 06-42-310-678 F.: 06-42-460-023	Building and construction, specialised building and fitting industry, utilities
12.	DÉLÉPSZER Kft. 6728 Szeged, Budapesti út 8. T.: 06-62-326-416 F.: 06-62-326-416	Overground/underground construction
13.	MISKOLCI ÚTÉPÍTŐ Kft. 3527 Miskolc, Besenyői u. 26. T.: 06-46-340-108 F.: 06-46-344-679	Road and utility construction, erections
14.	KELET-SPEECK Kft. 4402 Nyíregyháza, Tünde út 10/A. T.: 06-42-460-046 F.: 06-42-451-107	Building industry
15.	ÚTVASÚT-SZEGED Kft. 1113 Budapest, Daróczi u. 1-3. T.: 185-3133 F.: 185-3133	Rail-road construction, road and transmission line construction

<i>Ser. N°</i>	<i>Name of Supplier</i>	<i>Goods or Services</i>
16.	FÖLDGÉP TISZA ÉPÍTŐ Kft. 6750 Algyő, Régi Ipartelep Pf.: 9. T.: 06-62-367-268 F.: 06-62-367-268	Earthwork, road-railroad construction, waste deposition sites
17.	VÁV UNION Kft. 1112 Budapest, Kőérberki u. 36. T.: 166-9041 F.: 165-4857	Heavy current energy supply, automatization, control systems
18.	KVV Kőolajvezetéképítő Rt. 8800 Siófok, Tanácsház u. 9. T.: 06-84-312-311 F.: 06-84-318-045	Pipe-lines, technological erection, telecommunication
19.	CSÖSZER Rt. 1117 Budapest, Prielle Kornélia u. 53. T.: 209-1017 F.: 209-1018	Energetic, power plant devices, heating-cooling systems
20.	STRABAG Hungária Építő Rt. 1113 Budapest, Daróczi út 30. T.: 209-0753 F.: 209-0752	Building industry, concrete and reinforced concrete structures
21.	MMG Automatika Művek Rt. 1037 Budapest, Szépvölgyi út 41. T.: 188-6340 F.: 168-7685	Control, safety devices construction and erection
22.	OILTECH Kft. LOVÁSZI 8878 Lovászi Pf.: 8. T.: 06-92-376-088 F.: 06-92-376-088	Building-erection, technological mechanics
23.	BÁCSÉPSZER Rt. 6000 Kecskemét, tatár sor 1/a. T.: 06-76-482-582 F.: 06-76-327-188	Building industry, building and mechanical erections
24.	TEREP Építőipari Szolgáltató és Ker.Kft. 1134 Budapest, Dévai u. 12. T.: 120-3058 F.: 120-3058	Overground- and underground construction, building mechanics
25.	KUNPETROL Szolgáltató Kft. 6401 Kiskunhalas, Olajbányász u. 7. T.: 06-77-423-838 F.: 06-77-423-838	Technological piping, instrumentation, electrical erection
26.	TERRA-ROSSA Kft. 3553 Kistokaj, Szabó Lőrinc u. 22. T.: 06-30-432-664 F.: 06-46-431-283	Gas pipe-line and sewerage construction
27.	FISHER-ROSEMOUNT Kft. 1146 Budapest, Erzsébet királyné útja 1/c. T.: 153-1190 F.: 153-1098	Mass-flow measurement
28.	MVA Micronetics-VILATI Aut. Rt. 1134 Budapest, Klapka u. 1-3. T.: 270-0911 F.: 131-5114	Electrical power and light current erection
29.	UNIPLAN Építőipari és Szolg. Kft. 1037 Budapest, Bécsi út 77-79. T.: 250-3398 F.: 250-3399	Specialised building industry
30.	SIEMENS Rt. 1036 Budapest, Lajos u. 103. T.: 269-7455 F.: 188-8461	Electrical and control technics

<i>Ser. N°</i>	<i>Name of Supplier</i>	<i>Goods or Services</i>
31.	RWD Építőipari Kft. 121 Budapest, Ady Endre út 51. T.: 226-0468 F.: 228-1899	Outer utility supply
32.	KIPSZER KALORIKUS Kft. 1106 Budapest, Jászberényi út 24-36. T.: 261-6695 F.: 261-6695	Building mechanics erection
33.	INNOTERV Rt. 1106 Budapest, Jászberényi út 24-36. T.: 265-1821 F.: 261-2735	Gas pipe-line construction
34.	DKG-EAST Kft. 8801 Nagykanizsa, Vár út 9. T.: 06-93-310-132 F.: 06-93-313-304	Tank construction
35.	SZÁÉV-FÉMVÁZ Kft. 4405 Nyíregyháza, Tünde u.3. T.: 06-42-460-019 F.: 06-42-460-017	Rail-road loading/unloading metal towers' steel structures
36.	MÁVÉPSZER Kft. 1142 Budapest, Teleki B. u. 15-17- T.: 251-9333 F.: 251-5158	Building- specialised industry, building mechanics, drilling
37.	GEA-EGIRt. 1027 Budapest, Bem rkp. 33/34. T.: 201-6011 F.: 201-6017	Thermal power plant, cooling systems, air conditioning planning - erection
38.	FERROTECH Kft. 2400 Dunaujváros, Papírgyári út 36. T.: 06-25-313-257 F.: 06-25-313-613	Steel structures: manufacturing and erection
39.	MOR-BAU Kft. 1171 Budapest, Rákosszaba u. 15. T.: 258-0066 F.: 258-0067	Sewerage construction, underground construction
40.	MÁTRA ENERGIA TRANS Kft. 3013 Ecséd Pf.: 5. T.: 06-37-384-144 F.: 06-37-384-144	Gas pipe-line construction
41.	GÁZTRANSFER Kft. 3532 Miskolc, Nemzetőr út 40. T.: 06-46-346-893 F.: 06-46-346-893	Gas pipe-line construction
42.	NÓGRÁDI ÉS TÁRSA Kft. 2600 Vác, Alsó u. 48. T.: 06-27-312-094 F.: 06-27-312-094	Gas pipe-line construction
43.	BALLA MŰVEK 6031 Szentkirály, Szent István tér 24. T.: 06-76-345-091 F.: 06-76-345-059	Gas pipe-line construction
44.	TRANZGÁZ BT 3525 Miskolc, Szepesi P. u. 6. T.: 06-46-412-469 F.: 06-46-412-469	Gas industry, project planning and construction
45.	GEODÉZIA Rt. 1149 Budapest, Bosnyák tér 5. T.: 252-8222 F.: 163-5808	Geodetic survey

<i>Ser. N°</i>	<i>Name of Supplier</i>	<i>Goods or Services</i>
46.	R + M GYGV. Multiszerviz Kft. 1016 Budapest, Akna u. 2-4. T.: 260 0688 F.: 260-0228	Technological erection
47.	K & T Kft. 3100 Salgótarján, Szerpentin u. 1/A. T.: 06-32-316-118 F.: 06-32-316-118	Building industry planning
48.	KLÍMA-EURÓPA Kft. 1146 Budapest, Hungária krt. 179-187. T.: 251-7100 F.: 251-7100	Air conditioning construction
49.	BUDAPEST LIFT Rt. 1044 Budapest, Megyeri út 51. T.: 160-0028 F.: 160-0028	Elevator planning, construction and erection
50.	JUPITER Gazdasági Vállalkozó Kft. 1037 Budapest, Kalap u. 1-3. T.: 250-0740 F.: 250-0740	Property defence system design and construction
51.	ADEPTUS Kft. 3525 Miskolc, Tizeshonvéd u. 21/A. T.: 06-46-411-024 F.: 06-46-412-662	Overground- and underground construction, rail-road and bridge construction
52.	ELEKTROVILL BIZTONSÁGTECHNIKAI Rt. 1064 Budapest, Izabella u. 39/A. T.: 341-4313 F.: 322-5894	Electronic entering defence, fire protection
53.	IIT Flygt Kft. 2040 Budaörs, Stefánia u. 18. T.: 06-23-415-722 F.: 06-23-415-640	Pumps and machinery rising for utility construction
54.	CONTROLSOFT AUTOMATIKA Kft. 8200 Veszprém, Csillag u. 1. T.: 06-88-422-282 F.: 06-88-429-078	Control and automatization for utility construction
55.	TAU BAU Kft. 1085 Budapest, Üllői út 36. T.: 276-5055 F.: 276-5055	Utility construction
56.	MASZER Rt. 1097 Budapest, Koppány u. 13-15. T.: 215-8011 F.: 215-0977	Building mechanics works (full scale)
57.	HUTEX Vállalkozás 1116 Budapest, Marokszedő u. 22/A. T.: 227-5252 F.: 227-5252	Interior building
58.	MATHIAS-STAR Kft. Budapest, VII. Almási tér 17. T.: 122-5305 F.: 122-5305	General underground construction
59.	ÁLIT-LAK Kft. 2025 Visegrád, Széchenyi u. 20. T.: 06-26-398-239 F.: 06-26-397-312	Overground- and underground construction, specialised building industry
60.	S + T '94 Kft. 3284 Tarkaméra, Kolozsvári u. 30. T.: 06-36-479-263	Pipe-lines

<i>Ser. N^o</i>	<i>Name of Supplier</i>	<i>Goods or Services</i>
61.	POPGÁZ Kft. 4080 Hajdúnánás, Magyar u. 123/a. T.: 06-55-381-662 F.: 06-55-381-662	Gas distribution lines
62.	FÖLDMÉRŐ Ingatlanszervező Kft. 3531 Miskolc, Győri kapu 23. T.: 06-46-411-577 F.: 06-46-411-577	Geodetic survey and planning
63.	"HÁLÓZAT" Magánvállalkozás 6349 Nemesnádudvar, Zöldmező u.22. T.: 06-79-378-489 F.: 06-79-378-489	Gas pipe-line construction
64.	SÁRHEGYI és TSAI Ügyvédi Iroda 1114 Budapest, Ulászló u. 38. T.: 166-6715 F.: 185-2229	Possessory rights after completed pipe-line constructions
65.	KNAPP OTTÓ és Társa Kft. 8840 Csurgó, Rózsa u. 44. T.: 06-82-471-374 F.: 06-82-471-374	Overground construction works (roofs and tiling)
66.	GODIVA Vállalkozás Szervező Kft. 3537 Miskolc, Andrassy u. 46. T.: 06-46-333-262 F.: 06-46-333-357	Technological and building mechanics - erection and pressure tests
67.	SZTREHOVSZKI Bt. 6282 Püspökhatvan, Szabadság út 97. T.: 06-30-449-702 F.: -	Room paintings, papering and washing
68.	HEVESVÍZ Rt. 3360 Heves, Petőfi S. u. 1. T.: 06-36-346-611 F.: 06-36-346-805	Drainage
69.	FŰ-FA Kft. 1188 Budapest, Podhorszky u. 118/a. T.: 292-5602 F.: 292-5602	Land-finishing, pavement and landscaping
70.	TÉRMEŰ Építőipari Tervező Kft. 3530 Miskolc, Hunyadi J. u. 6. T.: 06-46-346-874 F.: 06-46-342-021	Gas distributing network planning
71.	HÁLÓZAT Ipari és Kereskedelmi Bt. 3400 Mezőkövesd, 48-as Hősök u. 7. T.: 06-49-313-692 F.: 06-49-313 692	Gas distributing pipe-line construction
72.	LÉVAI ANTAL vállalkozó 3032 Ape, Erzsébet tér 17. T.: 06-37-385-121 F.: 06-37-385-121	Gas pipe-line open-ditch geodetic measurement
73.	PROPÁN-93 Kft. 4200 Hajdúszoboszló, Bányász u. 5. T.: 06-52-362-077 F.: -	Gas distributing pipe-line construction
74.	INTERV Mérnöki Iroda Kft. 8600 Siófok, Tanácsház u.22. T.: 06-84-312-260 F.: 06-84-312-260	Gas saturation planning and construction
75.	R und M Építő Kft. 1106 Budapest, Akna u. 2-4. T.: 261-3769 F.: 260-0228	Interior building and removable flooring

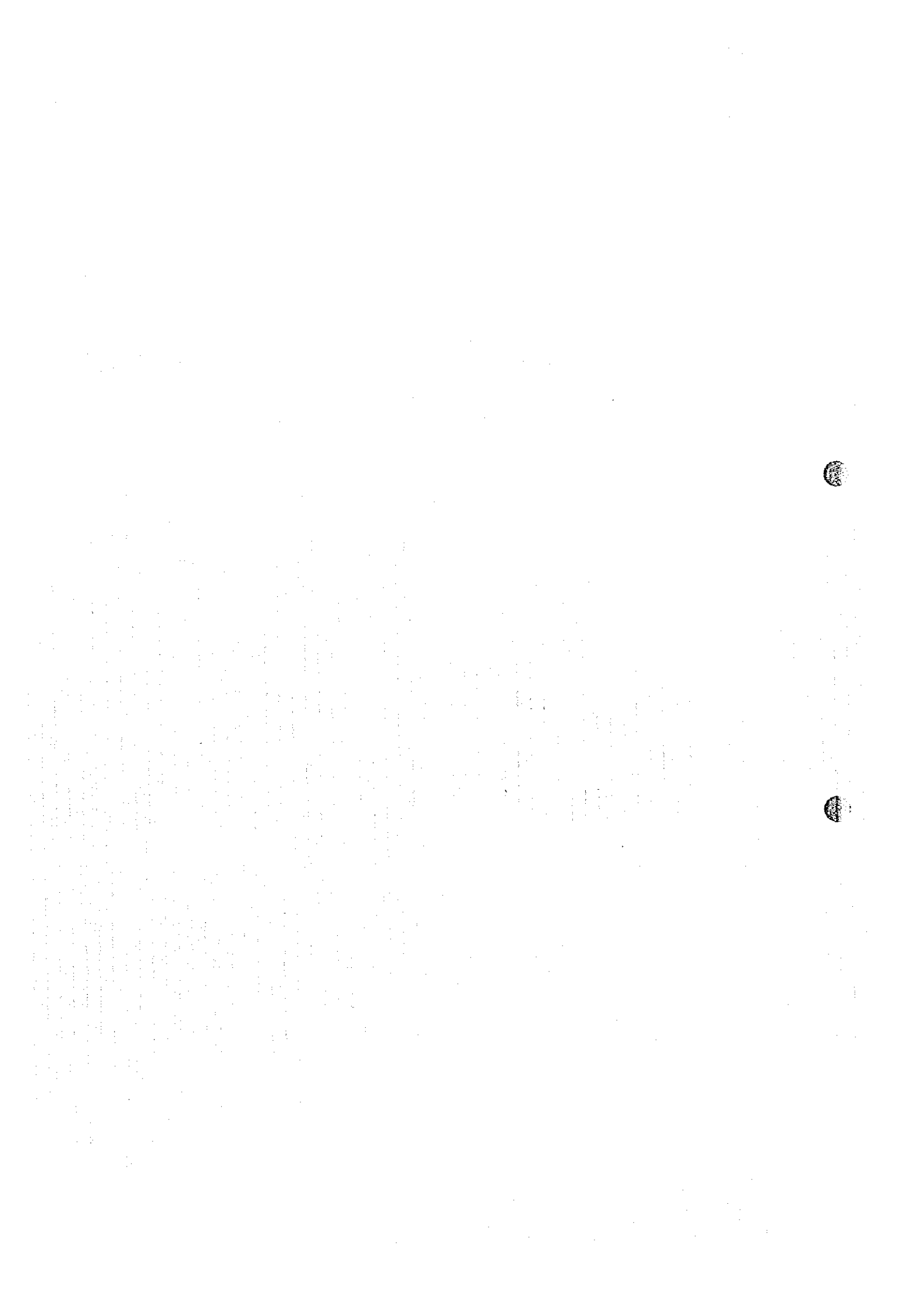
<i>Ser. N°</i>	<i>Name of Supplier</i>	<i>Goods or Services</i>
76.	GENERAL GOMSZ Kft. 6000 Kecskemét, Szolnoki hegy 232. T.: 06-76-485-611 F.: 06-76-485-611/27-457	Pipe-lines and assessories
77.	KÖGÁZ Rt. Gépészeti Berendezések Gyára 8800 Nagykanizsa, Erdész u. 28. T.: 06-93-310-182 F.: 06-93-310-181	Gas pressure controllers and devices
78.		
79.		
80.		

Remarks

Company form	Meaning
Rt.	Company of Shareholders
Kft.	Limited (liability) Company
Bt.	Limited Partnership (Deposit company)
Gmk.	Economic Working Team
magán vállalkozó	Private Contractor
vállalkozás	Venture
Ügyvédi iroda	Lawyer's Office







JICA