

ANNEX 1 RHOL Introduction

Established in 1993 by Dr. Erman Ilıcak, Rönesans Holding furnishes services as the main contractor and investor in 17 countries throughout the world. Operating in such fields as construction, real estate development, energy and health, the Holding is the 37th largest international contracting company of the world and the 10th largest contractor of Europe. Rönesans Holding currently constructs shopping malls, offices, hotels, houses, composite structures, heavy industry plants, infrastructure projects, manufacturing industry plants, chemical and pharmaceutical plants, food and beverage processing plants, automotive and machine factories, government buildings, health complexes and power plants.

RHOL is composed of several group companies;

1. Ronesans Construction (RCI): Established in St. Petersburg, Russia in 1993 and is currently the leading company of Rönesans Holding. RCI is specializing in design and construction of shopping centers, offices, hotels, mixed-use facilities, heavy industry plants, infrastructure facilities and civil engineering. RCI has operations in major markets of the EMENA region such as Russia, Turkey, Turkmenistan, Ukraine, Libya, Iraq, Azerbaijan, and Qatar;
2. Ronesans Heavy Industry (RHI) has established in 2011 and conducts large-scaled heavy industry and industrial projects in Russia, Turkmenistan, Mozambique, Kazakhstan and Iraq;
3. Rönesans Emlak Geliştirme (RGH), the real estate investment and development arm, develops, invests in and manages commercial real estate (shopping malls, offices and mixed use) in Turkey (through RGY) and Russia (through Desna). The Group became a major player in real estate operations (shopping mall investments) to cut back the losses in Russia following the 2008 crisis. As of Dec '14, RGH owns a portfolio of 39 assets, 20 income generating and 19 under development in Turkey and Russia. The income generating properties include: 8 malls, 2 offices, 1 mall & hotel complex in Turkey, in addition to 6 office buildings, 2 malls, and 1 hotel & office complex in Russia;
4. Heitkamp Ingenieur und Kraftwerksbau GmbH; Rönesans has expanded its area of activity in Europe by purchasing 100% shares of the Heitkamp Ingenieur und Kraftwerksbau GmbH Company in 2014. Established in Germany in 1892, the company implements power systems and industrial plant, as well as bridge and infrastructure projects with its specialization in the engineering and construction fields. Heitkamp is sub-contractor of EPC contractor Titan, for a nuclear power plant's cooling tower construction in Finland;
5. Alpine Bau GmbH Hergiswil: In 2013, RHOL incorporated 100% of the Alpine Bau GmbH Hergiswil, the Swiss branch of the ALPINE Group that has implemented construction projects in more than 30 countries. The company has been constructing the Gotthard Tunnel, namely, the longest railroad tunnel of the world;
6. Ballast Nedam NV: As a result of its share of 97,8%, Rönesans Holding is the largest shareholder of the Netherlands-based Ballast Nedam NV Company, which has been putting its signature under general building, transportation and infrastructure projects since 1877.
7. Ronesans Saglik Yatirim (RSY) has been established in 2013 in order to operate in health service projects. It has undertaken the construction of various city hospitals awarded by the state with a pipeline for more than 9,500 beds across 6 major projects along with its co-investor Meridiam, in Adana, Elazig, Yozgat, Bursa, Bakirkoy and Ikitelli;
8. Rönesans Enerji Uretim ve Ticaret A.S. (REN), through its subsidiaries, is involved in hydro and gas fired power generation in Turkey. The existing operations comprises of 5 run-off river hydro power projects with 114MW capacity. The pipeline consists of 1) 600MW CCGT Kanyon project that has been put on hold; 2) 660 MW pre-licensed coal

project; and 3) several hydro projects with 700MW capacity. Please refer to table 1 for details;

9. Other businesses, which includes development of a mixed-use Istanbul Seaport project and Ronesans TED Private School as well as several foundations and an aviation company.

Table 1: Existing and Pipeline HEPP projects;

	Existing					In Pipeline (Draft Study)
	Kale HEPP	Osmancık HEPP	Yalnızca HEPP	Özlüce HEPP	Sena HEPP	Dogan HEPP
Location	Amasya	Amasya	Karabuk	Erzurum	Kars	Karabuk
Capacity (MWh)	30	9	16	37	22	9
River	Yesilirmak	Yesilirmak	Yenice River (Filyos)	Capans (Coruh) - TRANSBOUNDARY	Aras - TRANSBOUNDARY	Soganli River (Filyos)
Total Reservoir Volume (m³)	174,061	276,255	185,626	40,000	1,660,457	87,960
Weir/Dam Height (m)	11.4	11.2	10.4	11.0	12.5	8
Dewatered Section Length (km)	4.2	0.0	2.5	6.0	4.2	3.3
Dewatered Section Length (km)	4.2	0.0	2.5	6.0	4.2	3.3
Flow (m3/sec)	37.5 (range 21 to 77)	36.2 (range 14 to 81)	32.8 (range 9 to 68)	2.5 (ranges from 0 to 10)	17 to 210	19.5 (range 3 to 65)
Ecoflow (m3/sec)	3.8 (range 2.1 to 7.7)	Not required - no reservoir - but REN committed to release 3.9 minimum	Requirement is 0.1 m3/s in in EIA Report and initial Water Usage Agreement but REN committed to release around 4 m3/s minimum	0.4	7.1 to 8.3	2 to 3.1
National Legally Protected Area	No	No	No	No	No	No
Key Biodiversity Areas - Natural Habitat	10 km to Kelkit Valley	Overlap with Kelkit Valley	50 km to Kure Mountains	10 km to Coruh Valley	50 km to Balcik Lake and 50 km to Sardarapat	50 km to Kure Mountains
Key Biodiversity Areas - Critical Habitat	50 km to Yedikir Reservoir	No	No	Overlap with Eastern Black Sea Mountains	50 km to Kars Plain and 50 km to Cildir Plain	No
Bird Migration Flyways	Overlap with Black Sea/Mediterranean	Overlap with Black Sea/Mediterranean	Overlap with Black Sea/Mediterranean	Overlap with Black Sea/Mediterranean	Overlap with Black Sea/Mediterranean and East Asia/East Africa	Overlap with Black Sea/Mediterranean
Endemic Bird Area	No	No	No	Overlap with Caucasus	50 km to Caucasus	No
Biodiversity Hotspot	No	No	No	Overlap with Caucasus and 50 km to Irano Anatolian	50 km to Caucasus	No

Critical species	No	No	No	7 plants	1 bird, 3 plants, 2 reptiles	No
Endangered species	4 birds	4 birds	4 birds	4 birds and 8 plants	4 birds and 9 plants	4 birds

Table 2: Information on Critical Endangered and Endangered Species;

Kale, Osmancik, Yalnizca and Dogan;

Critically Endangered and/or Endangered species

CR=Critically Endangered; EN=Endangered. See GN6: GN71-78 for definitions and requirements

IUCN RL	Scientific name	Common name	Group
EN	<i>Branta ruficollis</i>	Red-breasted Goose	Birds
EN	<i>Falco cherrug</i>	Saker Falcon	Birds
EN	<i>Neophron percnopterus</i>	Egyptian Vulture	Birds
EN	<i>Oxyura leucocephala</i>	White-headed Duck	Birds

Ozluce:

Critically Endangered and/or Endangered species

CR=Critically Endangered; EN=Endangered. See GN6: GN71-78 for definitions and requirements

IUCN RL	Scientific name	Common name	Group
CR	<i>Campanula lazica</i>	Lazian Campanula	Plants
CR	<i>Centaurea drabifolioides</i>	Whitlow-grass-leaved Centaury	Plants
CR	<i>Ranunculus tempskyanus</i>	Buttercup	Plants
CR	<i>Scrophularia capillaris</i>	Capillary Figwort	Plants
CR	<i>Sedum euxinum</i>	Euxinian Stonecrop	Plants
CR	<i>Silene ispirensis</i>	Ispirian Catchfly	Plants
CR	<i>Verbascum decursivum</i>	Decurrent Mullein	Plants
EN	<i>Branta ruficollis</i>	Red-breasted Goose	Birds
EN	<i>Falco cherrug</i>	Saker Falcon	Birds
EN	<i>Neophron percnopterus</i>	Egyptian Vulture	Birds
EN	<i>Oxyura leucocephala</i>	White-headed Duck	Birds
EN	<i>Alyssum artvinense</i>	Artvinian Alyssum	Plants
EN	<i>Campanula choruhensis</i>	Choruhian Bellflower	Plants
EN	<i>Centaurea rhizocalathium</i>	Root-headed Centaury	Plants
EN	<i>Crocus aerius</i>	Aerial Crocus	Plants
EN	<i>Erysimum leptocarpum</i>	Thin-fruited Tracle Mustard	Plants
EN	<i>Lilium ciliatum</i>	Ciliate Lily	Plants
EN	<i>Onosma obtusifolia</i>	Amblyophyllous Goldendrop	Plants
EN	<i>Psephellus appendicigerus</i>	Appendage-bearing Centaury	Plants

Sena:

Critically Endangered and/or Endangered species

CR=Critically Endangered; EN=Endangered. See GN6: GN71-78 for definitions and requirements

IUCN RL	Scientific name	Common name	Group
CR	<i>Vanellus gregarius</i>	Sociable Lapwing	Birds
CR	<i>Colchicum greuteri</i>	Greuter's Colchicum	Plants
CR	<i>Lotus armeniacus</i>	Armenian Bird's Foot Trefoil	Plants
CR	<i>Verbasicum transcaucasicum</i>	Transcaucasian Speedwell	Plants
CR	<i>Eremias pleskei</i>	Transcaucasian Racerunner	Reptiles
CR	<i>Phrynocephalus horvathi</i>		Reptiles
EN	<i>Branta ruficollis</i>	Red-breasted Goose	Birds
EN	<i>Falco cherrug</i>	Saker Falcon	Birds
EN	<i>Neophron percnopterus</i>	Egyptian Vulture	Birds
EN	<i>Oxyura leucocephala</i>	White-headed Duck	Birds
EN	<i>Alcea grossheimii</i>	Grossheim's Alcea	Plants
EN	<i>Allium struzianum</i>	Struzl's Onion	Plants
EN	<i>Campanula massalskyi</i>	Massalsky's Campanula	Plants
EN	<i>Centaurea hajastana</i>	Hayastanian Centaury	Plants
EN	<i>Centaurea rhizocalathium</i>	Root-headed Centaury	Plants
EN	<i>Crambe armena</i>	Armenian Sea-kale	Plants
EN	<i>Psephellus taochius</i>	Centaury	Plants
EN	<i>Scorzonera safievii</i>	Safiev's Salsify	Plants
EN	<i>Tragopogon armeniacus</i>	Armenian Salsify	Plants

Table 3: Length of the existing OHTLs

#	PROJECT NAME	LENGTH OF OHTL
1	YALNIZCA HEPP	11.5 KM
2	KALE HEPP	6 KM
3	OSMANCIK HEPP	1 KM
4	SENA HEPP	14 KM
5	OZLUCE HEPP	8 KM