

REFERENCE

for Hydro power equipment manufactured by VAP Hydro Ltd., Bulgaria for the order of Alstom Hydro Spain S.L.

Project Name	Scope Of Supply	Turbine Type	Units	Unit Output, MW	Head Rated, m	Start Date	Year Of Delivery	Project Location
Umia	Spiral casing with pressure test equipment	Francis, horizontal	2	1,60	64,85		2002	Spain
Umia	Butterfly valve DN 900 PN 67	Francis, horizontal	2	1,60	64,85		2002	Spain
Kargilik	Butterfly valve DN 1400 PN 20	Francis, vertical	2	11,90	145,00		2003	Turkey
Volturno 2	Butterfly valve DN 1750 PN 7,2	Francis, vertical	1	7,50	60,00		2006	Italy
Nytt Funna	Spiral casing with pressure test equipment	Francis, vertical	1	20,50	335,00	2006/06/13	2006	Norway
Nytt Funna	Complete Distributor without runner and shaft	Francis, vertical	1	20,50	335,00	2006/07/13	2007	Norway
Smokovo 1	Complete turbine without runner and shaft	Francis, vertical	1	3,30	88,00	2006/07/13	2007	Greece
Smokovo 2	Complete turbine without runner and shaft	Francis, vertical	1	7,30	88,00	2006/07/13	2007	Greece
Gurara	Butterfly valve DN 3000 PN 6,2	Kaplan, vertical	3	10,50	39,50	2007/10/16	2008	Nigeria
Riviere de l'Est	Distributor, Housing and Workshop assembly	Pelton, horizontal	1	23,50	805,00	2008/09/30	*2009	Réunion Island

* ongoing

For
Alstom Hydro Spain S.L.
 Sourcing Manager Barcelona



 Sebastien Fritz

December 12, 2008

ALSTOM HYDRO Spain S.L.
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 08940 Cornellà de Llobregat
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ALSTOM HYDRO ESPAÑA S.L.
Supplier references list

SUPPLIER:	COMMODITY:	Revised:
VAP HYDRO	Welded Fabrication / Machining / Assembly	08/01/2009

LOGO	COUNTRY	ADRESS	PERSON OF CONTACT e-mail	PHONE & FAX	WEB
	BULGARIA	Grivishko shouse str. 6 5800 PLEVEN BULGARIA	vassil.vlaichev@vaphydro.bg	Phone: +359 64 882111 Fax: +359 64 882117	www.vaphydro.bg

REFERENCES: Works done for by VAP HYDRO for **ALSTOM** (Spain)

PROJECT	Type (Francis Runner and wicket gate)	Diameter (mm)	Quantity Turbine Valve	Head (m)	Power (Kw)	Customer	Date (year)
UMIA	Francis Horizontal Spiral Case, Draft tubes	870	2	64.85	1600	ENGANSA (SPAIN)	2002
UMIA	Butterfly Valve NP10	900	2	64.85	1600	ENGANSA (SPAIN)	2002
KARGILIK	Butterfly Valve NP 20	1400	2	145.62	11950	TEKTUG (TURKEY)	2003
VOLTURNO	Butterfly Valve NP 7.2	1750	1	60	7500	ENEL (ITALIA)	2006
NYTT FUNNA	Francis vertical Distributor, Spiral Case, Draft tubes, Complete assembly	1575	1	335	20500	NTE (NORWAY)	2007
SMOKOVO I	Francis vertical Distributor, Spiral Case, Draft tubes, Complete assembly, Butterfly Valve	1000	1	88.3	3357	PPC (GREECE)	2007
SMOKOVO II	Francis vertical Distributor, Spiral Case, Draft tubes, Complete assembly, Butterfly Valve	1500	1	88.3	7362	PPC (GREECE)	2007

GURARA	Butterfly Valves NP6.2	3000	3	39.5	10500	SALINI (NIGERIA)	2008
RIVIERE DE L'EST	Pelton Colector and Housing		1	805	23.5	EDF (Réunion Island)	2009

ALSTOM Hydro España, S.L.


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