

CALL FOR TENDERS NGAPD-2006
ADDENDUM N°7

Call for Tenders: **NGAPD-2006**

Scope: **"Kardia Mine Pumped Hydro Storage Plant: Early Technology Provider Involvement for Design, Supply, Erection and Commissioning of Pump, Turbine, Generator and Auxiliary Systems"**

By means of the present Addendum N°7, the following modifications and clarifications are hereby introduced and incorporated into the Call for Tenders NGAPD-2006:

- a. **Article 2.3 ("Scope of Supply and Services") of ANNEX II ("Technical Part") of the Call for Tenders NGAPD-2006 is amended as follows:**

In **Table 2-1: Division of work per lot**, under Item **6.9 "Powerhouse / assembly bay crane(s), other cranes and hoists"**, the relevant note under the column **"Remarks/key interface"**, is deleted and replaced by the following:

"Lot1 may use the Powerhouse / assembly bay crane for the erection of his own scope."

- b. **Article 2.4 ("Preliminary Time Schedule") of ANNEX II ("Technical Part") of the Call for Tenders NGAPD-2006 is amended as follows:**

The time schedule included in **Article 2.4** is deleted in its entirety and replaced by the time schedule issued with and appended to the present Addendum N°7.

- c. **Article 5.2 ("Heads of Terms") of the Call for Tenders NGAPD-2006 is amended as follows:**

Under **Time for Completion of the Works**:

- The **"Partial Taking Over for completion of all Permanent Works save Units 3 & 4"** is amended from **4 years** to **4.5 years**, and
- The **"Overall Time for Completion"** is amended from **4.5 years** to **5 years**.

All other terms and conditions of the **Call for Tenders No NGAPD 2006** and **Addenda N°1, N°2, N°3, N°4, N°5 and N°6** remain unchanged and in full force and effect.

	Year 0												Year 1												Year 2												Year 3												Year 4												Year 5												Year 6											
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Initial steps																																																																																				
0 Early engineering																																																																																				
0 Notice to Proceed to Lot 1																																																																																				
Notice to Proceed to Lot 2																																																																																				
Access roads, site preparation and mobilization																																																																																				
Geological investigations																																																																																				
Upper Reservoir and Intake	Upper Reservoir and Intake																																																																																			
Design																																																																																				
Upper reservoir																																																																																				
Excavation																																																																																				
Foundation treatment																																																																																				
Embankments																																																																																				
Lining																																																																																				
Intake concreting																																																																																				
Intake E&M equipment installation																																																																																				
Bottom Outlet&spillway concreting																																																																																				
Lower Reservoir	Lower Reservoir																																																																																			
Lower reservoir																																																																																				
Penstocks waterway	Waterway penstocks																																																																																			
Design & manufacturing																																																																																				
Excavations (out of PH area)																																																																																				
Penstock installation																																																																																				
installation & concreting on platform el. 507																																																																																				
installation & concreting up to el. 545.70																																																																																				
installation up to Intake																																																																																				
Downstream waterway and Intake	Downstream waterway and Intake																																																																																			
Backfill under the downstream waterway up to 520																																																																																				
Concreting of waterway																																																																																				
Concreting Intake																																																																																				
Powerhouse	Powerhouse																																																																																			
Civil & excavation design																																																																																				
Hydraulic design & test																																																																																				
Mechanical & Electrical design																																																																																				
Manufacturing& transportation																																																																																				
Excavations																																																																																				
Foundation treatment																																																																																				
Draft tube level (499.50 - 508.10)																																																																																				
Concreting																																																																																				
Draft tube installation																																																																																				
Main building levels (508.10-545.70), with reservations for equipment																																																																																				
Concreting																																																																																				
Backfilling																																																																																				
Platforms, incl. erection bay																																																																																				
Concreting																																																																																				
Gantry crane installation																																																																																				
Spiral case level																																																																																				
Equipment installation																																																																																				
Secondary concrete																																																																																				
Top levels																																																																																				
Equipment installation																																																																																				
Secondary concrete																																																																																				
Final steps	Final steps																																																																																			
Ready for wet testing																																																																																				
Water filling - Wet testing - Commissioning																																																																																				
Partial Take Over U1&2																																																																																				
Partial Take Over U3&4																																																																																				
End of works for Lot 1																																																																																				
Site restoring																																																																																				
End of works for Lot 2																																																																																				