

## The 4<sup>th</sup> Civil Engineering Conference in the Asian Region

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### Abstract Submission Form

<b>1. Technical Area:</b>		<b>T-5-c: Planning and management technology</b>			
<b>2. Title:</b>		<b>Project Management by Consultant for Hai Van Tunnel Construction Project in Vietnam</b>			
(日本語)		ハイバントネル建設事業におけるコンサルタントのプロジェクトマネジメント			
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**5. Abstract:**

**The Hai Van Pass located in coastal Central Vietnam, is the biggest traffic bottleneck on the National Highway No.1 linking the capital Hanoi with Ho Chi Minh. The road is often blocked due to the landslide and slope failure during the rainy seasons.**

**The tunnel, 6.3km long, construction was started on 1st October 2000 and open to the public on 5 June 2005; the project scale is some Two Hundred Million US Dollars. Average excavation rate was 150m per month, and the excavation works completed during October 2003.**

**Longitudinal ventilation system with the Electrostatic Precipitator (EP) was invented and developed in Japan. After the development of the EP, the longitudinal ventilation system with the EP became the standard method of the long road tunnel in Japan, because it reduces the number of the ventilation shafts, reduces cross section area of the main tunnel and therefore the requirement electricity.**

**"Micro-SCADA" is a microcomputer-based, programmable and distributed Supervisory Control And Data Acquisition (SCADA) system, and applied to the project for over all system control.**

**The O&M Company, namely HAMADECO, was established by referring the Japanese practice of highway tunnel operation, which was introduced and guided by specialists from Japan. Just before the traffic open, overall emergency response training shall be carried out for O&M Company.**

**The Consultant had been taking proactive initiative for work coordination among the contractors because all contractors are required to work simultaneously inside the tunnel in order to shorten the overall construction period. Weekly basis work coordination meeting has been held. Primavera P3 was used as scheduling tool. PMBOK was referred to for the project management.**