CLP Power Hong Kong Ltd

Renewable Energy Supply on Town Island (Construction Phase): 19th Monthly Environmental Site Audit Report

October 2012

Environmental Resources Management

16/F DCH Commercial Centre 25 Westlands Road Quarry Bay, Hong Kong Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660 E-mail: post.hk@erm.com http://www.erm.com CLP Power Hong Kong Ltd

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October 2012

Reference 0129569

For and on	behalf of ERM-Hong Kong, Limited
Approved	by: Frank Wan
Signed:	Warch-MT.
Position:	Partner
Certified by	y : Winnie Ko
Signed :	MAS
Position :	Independent Environmental Checker

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1 ENVIRONMENTAL SITE AUDIT

1.1 BACKGROUND

The construction works of *Renewable Energy Supply on Town Island* (the Project) commenced in March 2011.

To fulfill Condition 2.2 of the Environmental Permit (EP-397/2010) and environmental audit requirements stated in Section 5.7.1 of the approved Project Profile (PP) submitted for direct application of an Environmental Permit under EIA Ordinance (EIAO) (PP-413/2010), monthly environmental site audits should be undertaken to ensure that the mitigation measures recommended in PP are properly implemented.

This is the nineteenth *Monthly Environmental Site Audit Report* presenting the key findings and observations of the site audit conducted on 11 October 2012.

1.2 SITE AUDIT FINDINGS AND OBSERVATIONS

The nineteenth monthly environmental site audit was conducted on 11 October 2012. The construction works undertaken during the site audit included superstructure works and the installation of photovoltaic panels at both Site 1 and Site 2. Two observations were made during the site audit and are described below:

- Construction waste was dumped outside the boundary of Site 1 (*Photo 1*). The Contractor removed the construction waste immediately once notified; and
- Oil stain was found on the ground after the relocation of the generator at Site 1 (*Photo 2*). The Contractor removed the oil stain and disposed of it as chemical waste immediately once notified.

The remedial action for the environmental deficiency which was recorded during the previous reporting period has been taken and rectified before the site inspection:

• Drip trays had been provided for the chemical drums at Site 1 (*Photo 3*).

The environmental site audit checklist is given in *Annex A*.

Photos of the site audit are given in *Annex B*.

ENVIRONMENTAL RESOURCES MANAGEMENT

CLP

Annex A

Environmental Site Audit Checklist

E	Renewable Energy Sup Construction Phase - Env	oply on Town vironmental S	Island Site Audit	С		中電
Ins	spection Date: 11-10-2012 Time: 1	10:00	to	1	2:00	
	Inspected By: IEC Representative : Fung Siu Chung Andrew CLP Representative : T.Y. Lee Contractor : London (3Tech Corporate Ltd	1)				
Con	ather dition √Sunny Fine Overcast Drizzle perature 26 °C Humidity High d Calm √Light Breeze Strong	Rain Moderat	E Stor te √Low		Hazy	
A	General	Yes	Yes, but need Improvement		N/A or ot observed	Photo/Remarks
A1	Is the Environmental Permit displayed at the entrances / exits?	4				-
B	Air Quality	Yes	Yes, but need Improvemen		N/A or ot observed	Photo/Remarks
B1 B2 B3	Is open burning avoided? Are exposed soil surfaces regularly watered to avoid generation of dust? Are plant and equipment well maintained? (le without black smoke	4				
84 85 86	from powered plant) Are stockpiles of dusty material covered or regularly watered? Is watering Implemented during excavation? Is generation of dust avoided during loading/unloading/excavation?				V V V	
C	Noise	Yes	Yes, but need Improvemen		N/A or not observed	Photo/Remarks
	Is the Construction Noise Permit displayed at the entrances / exits? (if any)				1	<u>Revenue</u>
C2	Are all plant and equipment well maintained and in good operating condition?					
СЗ	Is idle equipment turned off or throttled down?	V				
C4	Are powered mechanical equipment covered or shielded by acoustic materials?					
C5	Are silenced equipment used where practicable?					
C6	Is the number of contstruction plant being used minimized?					
C7	Do air compressors have valid noise labels?					
C8	Do compressors operate with doors closed?					
D	Water Quality	Yes	Yes, but need Improveme		N/A or not observed	Photo/Remarks
D1	Is wastewater discharge license, if any, available for inspection?					
D2	is drainage system adequate?				1	
D3	Is drainage system well maintained?				V	
D4	is debris and rubbish in the drainage system collected and disposed of property?				1	-

D5	Are there temporary ditches for runoff discharge into appropriate Watercourse?				\checkmark	
	With silt retention pond?	H				
D6	Are there sedimentation tanks for settling runoff prior to disposal?					
	Is the capacity of sedimentation tank adequate?				V	
D8	Is the sedimentation free from silt and sediment?					
	Are the temporary stockpiles located away from stream or coastline?					
	Are treaching carried out for the section of cable in the vicinity of and crossing the stream between Sites 1 and 2?				V	
D11	Is cable trenching works scheduled to be carried out during dry season?				1	
E	Waste/Chemical Management	Yes	Yes,	No	N/A or	Photo/Remarks
		li	but need		ot observed	
E1	General refuse Accumulation avoided?	V				
E2	Receptacles (e.g. rubbish bins) available?	1				
E3	Disposed of regularly and properly?					
E4	Chemical waste, waste oil Is the Chemical Waste Producer Registration available for Inspection?		V			Note 1
E5	Stored properly in designated area?					
E6	Labelled properly?					
E7	Disposed of properly?					
E8	Trip tickets/ chits available for inspection?				V	
E9	Chemical/fuel storage area Are all spillage containment provided for all chemicals, oils and fuels stored on site, those equipment which potentially have oil leakage and for the area where maintenance works carrying out?		1			Note 2
E10						Constant Statement of the operation
E11	Adequate bund capacity? (>110% of the largest tank)	V				
E12	Are storage areas provided with locks and located on sealed areas?				7	
E13	Construction Waste Reused where practicable?					
	Is sorting conducted on site?					
E14	Transported offsite by boat for proper disposal?	V				All and the second second
E15	Are surplus Inert materials being reused where practical as an alternative to ordening imported fill material?	7				
E16	Excavated Material Appears uncontaminated? (colour, odour)					
E17	If suspected contaminated, appropriate procedures followed?				V	
E18	Relevant license/permit/trip tickets/chits for disposal of construction waste or excavated materials available for inspection?	7				
F	General / Housekeeping	Yes	Yes, but need improveme		N/A or not observed	Photo/Remarks
F1	Are potential stagnant pools cleared and mosquito breeding prevented?	7				
G	Ecology	Yes	Yes, but need Improveme		N/A or not observed	Photo/Remarks
G1	Is damage and disturbance to the remaining and surrounding natural shrubby grassland and yound woodland habitats avoided? (particularly those caused by filling and illegal dumping)	4				

	s damage to surrounding areas avoided?
	Are temporary work sites/disturbed areas reinstated?
	s any alternative method adopted for laying cable across stream between
	tems for Inspection
	- Site 1 construction site.
	- Site 2 construction site.
1	
1	Notes / Issues Recorded On Site
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	1) Construction waste was observed dumping outside the site boundary at Site 1.
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Signatures: IEC Representative :

M 6 (Name: rew Fung And)

CLP Representative :

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(Name: Raymond Ho

Contractor :

(Name: Mic Kwok)

Annex B

Photo Records

Photo Record on 11 October 2012



Photo 1 – Construction waste was dumped outside the boundary of Site 1



Photo 2 – Oil stain was observed on the ground after removing the generator

B1



Photo 3 – Drip trays had been provided for the chemical drums at Site 1

B2