CLP Power Hong Kong Ltd

Renewable Energy Supply on Town Island (Construction Phase): 11th Monthly Environmental Site Audit Report

February 2012

Environmental Resources Management

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Reference 0129569

For and on behalf of ERM-Hong Kong, Limited			
Approved b	y: Frank Wan		
Signed:	Harch T.		
Position:	Partner		
Certified by	: Winnie Ko		
Signed :	when		
Position :	Independent Environmental Checker		
Date :	22 February 2012		

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1 ENVIRONMENTAL SITE AUDIT

1.1 BACKGROUND

The construction works of *Renewable Energy Supply on Town Island* (the Project) has 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 eleventh *Monthly Environmental Site Audit Report* presenting the key findings and observations of the site audit conducted on 15 February 2012.

1.2 SITE AUDIT FINDINGS AND OBSERVATIONS

The eleventh monthly environmental site audit was conducted on 15 February 2012. The construction works conducted during the site audit included site formation works at Site 1 and Site 2. All the temporary worksites have been reinstated. Three observations have been recorded during the site audit and are described below:

- Warning sign was observed tied on tree trunk near haul road at Site 1 (*Photo 1*). The Contractor was reminded to remove the warning sign and suggested to display the warning sign independent from the trees.
- A stone was observed on the branches of tree near Site 1 (*Photo 2*). The Contractor was reminded to remove the stone.
- Plastic bag was observed wrapping on the trunks of trees near the haul road between Site 1 and Site 2 (*Photo 3*). The Contractor was reminded to remove the plastic bag and provide a tree protection zones in order to protect the trees.

The remedial actions for the two environmental deficiencies which were recorded during the previous reporting period has been taken and verified during the site inspection:

- Water tank has been provided at exit of Site 1 for washing the wheels of trucks leaving the construction site (Photo 4).
- General refuse and construction material outside the site boundary has been removed and the grass stockpile stored outside the site boundary has been relocated and stored within the site boundary.

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

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

Annex A

Environmental Site Audit Checklist

F	ERM	Renewable Energy Su Construction Phase - En			С	LP	Ð	中電
h	nspection Date: 15-02-2012	Time:	10:00	to		12:00		
	Inspected By: IEC Representative : CLP Representative : Contractor :	Andrew Fung Raymond Ho Rebel Hui (3Tech Corporate	Ltd.)	······································				
We	eather							
	ndition Sunny Fine		Rain	Storn	ר 🗆	Hazy		
Wir	nperature 17 °C nd Calm √Light	Humidity High Breeze Strong	Moderat					
Α	General		Yes	Yes, but need mprovement	No n	N/A or ot observed	Photo/I	Remarks
A1	Is the Environmental Permit displayed at	lhe entrances / exits?	\checkmark					
в	Air Quality		Yes	Yes,	No	N/A or	Photo/	Remarks
				but need mprovement	n	ot observed		
B1	Is open burning avoided?							
B2	Are exposed soil surfaces regularly water		$\overline{\checkmark}$					
В3	Are plant and equipment well maintained? from powered plant)	' (ie without black smoke	\checkmark				. <u></u>	
B4	Are stockpiles of dusty material covered of	regularly watered?						
B5	Is watering implemented during excavatio							
B6	Is generation of dust avoided during loadi		$\overline{\mathbf{A}}$				Note 1	
.	Noise		-					
C	Noise		Yes	Yes, but need mprovement	No n	N/A or not observed	Photo/	Remarks
C1	Is the Construction Noise Permit displayer	d at the entrances / exits?				4	<u> </u>	• • • • • · · · · · · · · · · · · · · ·
C2	(if any) Are all plant and equipment well maintaine condition?	ed and in good operating	V					
C3	Is idle equipment turned off or throttled do	wn?	V					
C4	Are powered mechanical equipment cover acoustic materials?	red or shielded by	[]					
C5	Are silenced equipment used where pract	icable?						
C6	Is the number of contstruction plant being	used minimized?						
C7	Do air compressors have valid noise label	s?				$\overline{\checkmark}$		
C8	Do compressors operate with doors close	d?				V		
D	Water Quality		Yes	Yes, but need Improvement	No r	N/A or not observed	Photo	/Remarks
D1	Is wastewater discharge license, if any, av	ailable for inspection?]	
D2	Is drainage system adequate?					\checkmark	No wa	ste water
D3	Is drainage system well maintained?						genera	ated
D4	Is debris and rubbish in the drainage syste disposed of properly?	em collected and)	

D6 D7 D8 D9 D10	Are there temporary ditches for runoff discharge into appropriate Watercourse? With silt retention pond? Are there sedimentation tanks for settling runoff prior to disposal? Is the capacity of sedimentation tank adequate? Is the sedimentation free from silt and sediment? Are the temporary stockpiles located away from stream or coastline? O Are treaching carried out for the section of cable in the vicinity of and crossing the stream between Sites 1 and 2? Is cable trenching works scheduled to be carried out during dry season?	Image: Second
E	Waste/Chemical Management	Yes Yes, No N/A or Photo/Remarks but need not observed Improvement
E1	General refuse Accumulation avoided?	
E2	Receptacles (e.g. rubbish bins) available?	
E3	Disposed of regularly and properly?	
E4	Chemical waste, waste oil Is the Chemical Waste Producer Registration available for inspection?	
E5	Stored properly in designated area?	
E6	Labelled properly?	
E7	Disposed of properly?	
E8	Trip tickets/ chits available for inspection?	
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?	
E10	Is storage area bunded?	
E11	Adequate bund capacity? (>110% of the largest tank)	
E12	Are storage areas provided with locks and located on sealed areas?	
E13		
F 44	Is sorting conducted on site?	
E14		
E15	Are surplus inert materials being reused where practical as an alternative to ordering imported fill material? Excavated Material	
E16		
E17	If suspected contaminated, appropriate procedures followed?	
E18	Relevant license/permit/trip tickets/chits for disposal of construction waste or excavated materials available for inspection?	
F	General / Housekeeping	Yes Yes, No N/A or Photo/Remarks but need not observed Improvement
F1	Are potential stagnant pools cleared and mosquito breeding prevented?	
G	Ecology	Yes Yes, No N/A or Photo/Remarks but need not observed Improvement
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)	Note 1 - 3

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G2 Is damage to surrounding areas avoided?	G2	Is damage	to surrounding a	areas avoided?
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- G3 Are temporary work sites/disturbed areas reinstated?
- G4 Is disturbance to streams avoided during cable laying?

G5 Is any alternative method adopted for laying cable across stream between Sites 1 and 2?

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Items for Inspection

- Site 1

- Site 2

Notes / Issues Recorded On Site

1) Warning sign was observed tied on tree trunk near haul road at Site 1.

2) Rock was observed on the branches of tree near Site 1.

3) Plastic bag was observed wrapping on the trunks of trees near the haul road between Site 1 and Site 2.

Corrective Actions

1) The Contractor was reminded to remove the warning sign and suggested to display the warning sign independent from the trees.

2) The Contractor was reminded to remove the stone.

3) The Contractor was reminded to remove the plastic bag and provide a tree protection zones in order to protect the trees.

Signatures: IEC Representative :

(Namo: Andrew Fung)

CLP Representative : (Name: Raymond Ho

Contractor :

(Name:

Annex B

Photo Records

Photo Records on 15 February 2012



Photo 1 – Warning sign was observed tied on tree trunk near haul road at Site 1.



Photo 2 – Rock was observed on the branches of tree near Site.



Photo 3 – Plastic bag was observed wrapping on the trunks of trees near the haul road between Site 1 and Site 2.



Photo 4 – Water tank has been provided at exit of Site 1 for washing the wheels of trucks leaving the construction site.