CLP Power Hong Kong Ltd

Renewable Energy Supply on Town Island (Construction Phase): 12th Monthly Environmental Site Audit Report

March 2012

Environmental Resources Management

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Reference 0129569

For and on behalf of ERM-Hong Kong, Limited					
Approved by	7: Frank Wan				
Signed:	Warch M.				
Position:	Partner				
Certified by :	Winnie Ko				
Signed :	ma				
Position : In	ndependent Environmental Checker				
Date :	26 March 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 twelfth *Monthly Environmental Site Audit Report* presenting the key findings and observations of the site audit conducted on 14 March 2012.

1.2 SITE AUDIT FINDINGS AND OBSERVATIONS

The twelfth monthly environmental site audit was conducted on 14 March 2012. The construction works conducted during the site audit included foundation formation works at Site 1 and Site 2. All the temporary worksites have been reinstated. Four observations have been recorded during the site audit and are described below:

- Painting stain was observed on ground at Site 1 (*Photo 1*). The Contractor was reminded to remove the contaminated soil and dispose off as chemical waste.
- Stagnant water was observed in drip trays at Site 1 and empty drums at Site 2 (*Photo 2 and 3*). The Contractor was reminded to remove the stagnant water and properly cover the drip trays and empty drums to prevent accumulation of stagnant water.
- Bucket with chemical was observed storing in drip tray and without cover. Spillage was also observed next to the bucket (*Photo 4*). The Contractor was reminded to provide cover and drip tray for the bucket containing chemical and remove the contaminated soil and dispose off as chemical waste.
- Road sign was observed tied on tree trunk near haul road at Site 1 (*Photo 5*). The Contractor was reminded to remove the warning sign and suggested to display the warning sign independent from the trees.

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

- Warning sign tied on the tree trunk near haul road at Site 1 has been removed.
- Rock on the branches of a tree near Site 1 has been removed.
- Plastic bag wrapped on the trunks of trees near the haul road between Site 1 and Site 2 has been removed.

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

E	Renewable Energy Su Construction Phase - En	
ins	pection Date: 14-03-2012 Time:	10:00 to 12:00
	Inspected By: IEC Representative : <u>Andrew Fung</u> CLP Representative : <u>Raymond Ho</u> Contractor : <u>Rebel Hui (3Tech Corporate 1</u>	∋ Ltd.)
Wea	ther	
	dition Sunny √ Fine Overcast Drizzle perature 15 ℃ Humidity √ High g Calm √ Light Breeze Strong	Moderate Low
A	General	Yes Yes, No N/A or Photo/Remarks but need not observed Improvement
A1	Is the Environmental Permit displayed at the entrances / exits?	
B	Air Quality	Yes Yes, No N/A or Photo/Remarks but need not observed Improvement
B1	Is open burning avoided?	
B2	Are exposed soil surfaces regularly watered to avoid generation of dust?	[,] <u>v</u> <u> </u>
B 3	Are plant and equipment well maintained? (ie without black smoke from powered plant)	
B4	Are stockpiles of dusty material covered or regularly watered?	
B5	Is watering implemented during excavation?	
B6	Is generation of dust avoided during loading/unloading/excavation?	
С	Noise	Yes Yes, No N/A or Photo/Remarks but need not observed Improvement
C1	Is the Construction Noise Permit displayed at the entrances / exits? (if any)	
C2	Are all plant and equipment well maintained and in good operating condition?	
C3	Is idle equipment turned off or throttled down?	
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, No N/A or Photo/Remarks but need not observed Improvement
D1	Is wastewater discharge license, if any, available for inspection?	
D2	Is drainage system adequate?	No waste water
D3	Is drainage system well maintained?	generated
D4	Is debris and rubbish in the drainage system collected and disposed of properly?	

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D6 D7 D8 D9 D10 D11	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? 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? Is cable trenching works scheduled to be carried out during dry season?					No waste water generated
E	Waste/Chemical Management	Yes	Yes, but need Improvemer		N/A or not observed	Photo/Remarks
E1	General refuse Accumulation avoided?		— —			
E2	Receptacles (e.g. rubbish bins) available?					<u> </u>
E3	Disposed of regularly and properly?					• in •
E4	Chemical waste, waste oil Is the Chemical Waste Producer Registration available for inspection?					
E5	Stored properly in designated area?					
E6	Labelled properly?	1				
E7	Disposed of properly?	$\overline{\mathbf{v}}$				
E8	Trip tickets/ chits available for inspection?				1	
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?		V			Note 1 and 3
E10	Is storage area bunded?	\checkmark				
E11	Adequate bund capacity? (>110% of the largest tank)	$\overline{\mathbf{v}}$				
E12	Are storage areas provided with locks and located on sealed areas?				7	••••••••••••••••••••••••••••••••••••••
E13	Construction Waste Reused where practicable?	$\overline{}$				
	Is sorting conducted on site?					····
E14	Transported offsite by boat for proper disposal?					
E15	Are surplus inert materials being reused where practical as an alternative to ordering imported fill material?	$\overline{\mathbf{v}}$				<u></u>
E16	Excavated Material Appears uncontaminated? (colour, odour)					
E17	If suspected contaminated, appropriate procedures followed?				$\overline{\checkmark}$	· · · · · · · · · · · · · · · · · · ·
E18	Relevant license/permit/trip tickets/chits for disposal of construction waste or excavated materials available for inspection?				1	
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?		V			Note 2
G	Ecology	Yes	Yes,	No	N/A or	Photo/Remarks
_			but need Improveme	I	not observed	
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)		$\overline{}$			Note 4

G2	Is damage to surrounding areas avoided?	$\overline{\mathbf{v}}$			
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?				-
	Items for Inspection		 	 	-
	- Site 1				

- Site 2

Notes / Issues Recorded On Site

- 1) Painting stain was observed on ground at Site 1.
- 2) Stagnant water was observed in drip traps at Site 1 and empty drums at Site 2.
- 3) Bucket with chemical was observed storing without cover and drip tray. Spillage was observed next to the bucket.
- 4) Road sign was observed tied on tree trunk near haul road at Site 1.

Corrective Actions

- 1) The Contractor was reminded to remove the contaminated soil and dispose off as chemical waste.
- 2) The Contractor was reminded to remove the stagnant water and properly cover the drip trays and empty drums to prevent accumulation of stagnant water.
- The Contractor was reminded to provide cover and drip tray for the bucket containing chemical and remove the contaminated soil and dispose off as chemical waste.
- 4) The Contractor was reminded to remove the road sign.

Signatures: IEC Representative :

(Name: ung

CLP Representative : (Name: **Raymond Ho** 1

3Tech Grporateltd. Contract (Name

Annex B

Photo Records

Photo Records on 14 March 2012



Photo 1 – Painting stain was observed on ground at Site 1.



Photo 2 – Stagnant water was observed in drip traps at Site 1.



Photo 3 – Stagnant water was observed in empty drums at Site 2



Photo 4 – Bucket with chemical was observed storing without cover and drip tray. Spillage was observed next to the bucket.



Photo 5 – Road sign was observed tied on tree trunk near haul road at Site 1.