APPENDIX E1

Proforma for Operational Phase EM&A Programme

IMPLEMENTATION SCHEDULE

EIA* Ref	EM&A Log Ref	Environmental Protection Measures*	Location/ Timing	Implementation Agent	Implementation Stages**			
					Des	C	O	Dec

* All recommendations and requirements resulted during the course of EIA/EA Process, including ACE and/or accepted public comment to the proposed project.

** Des=Design, C=Construction, O=Operation, Dec=Decommissioning

Signed by Project Proponent: _____ Date: _____

IMPLEMENTATION STATUS PROFORMA Ref:_____

Ref**	Environmental Protection Measures*	Implementation Status

* *All recommendations and requirements resulted during the Course of EIA/EA Process, including ACE and /or accepted public comment to the proposed project*

** *EIA Ref/EM&A Log Ref/Design Document Ref*

Signed by Environmental Team Manager: _____ Date: _____

Audited by Independent Checker (Environment): _____ Date: _____

REGULATORY COMPLIANCE PROFORMA Ref:_____

Ref**	Environmental License/Permit*	Control Area/Facility/Location	Effective Date

* *Name of Applicant, Business Corporation, relevant regulation and remark of license/permit conditions*
** *File reference of the licensee/permittee*

Recorded by Environmental Team Manager: _____ Date: _____

Signed by Independent Checker (Environment): _____ Date: _____

Environmental Monitoring Technical Summary Ref:_____

Impacting Areas	Location	Parameter and Frequency	Instrumentation/ Methodology	Action/Limit (A/L) Levels	Environmental Target
1.Water	W_1 to W_{18}	DO, turbidity, pH, water temperature, SS, water depth, copper, chromium etc in weekly, monthly or quarterly sampling requirements per mid-ebb/ebb tide monitoring	DO meter, turbidimeter, pH meter, thermometer, water sampler to HOKLAS lab for SS or metals analysis, GPS, water depth sounder etc.	as per baseline report	• not to exceed the imposed AL levels; • no visible water plume; • undertake mitigation measures to ensure all effluent levels within acceptable guidelines and standards; • review monitoring requirements vs environmental protection effectiveness and to gauge practical environmental target. Monitoring frequency may be increased, or decreased or even ceased.
2. Air	A_1 to A_{22}	24 hr TSP twice per week, (temperature, air pressure, wind speed and direction are record simultaneously)	6 sets of high volume samplers with pre-conditioned filter paper from HKPU, wind sensors connected to on-line computer	as per baseline report	• not to exceed the imposed AL levels; • implement mitigation measures (as per EIA/EA recommendations) to reduce TSP; • review monitoring requirements vs environmental protection effectiveness and to gauge practical environmental target. Monitoring frequency may be increased, or decreased or even ceased.
3 Noise	N_1 to N_{22}	Leq dB(A) 30 min twice per week, wind speed and direction	Sound level meter	as per EIA/EA requirement	• not to exceed the imposed AL levels; • review monitoring requirements vs environmental protection effectiveness and to gauge practical environmental target. Monitoring frequency may be increased, or decreased or even ceased.
4 Ecology	E_1 to E_7	Bird counts on abundance and relative proportion of 10 categories of bird (ie xx, xxx,...) in a monthly basis Mangrove, trees (ie, xx, xxx, ...) density and species composition survey in a yearly basis, measure basal area, diameter and biomass	one 200x200 m quadrat per site identified plots as per EIA/EA study	as per baseline report as per baseline report	• not to exceedingly stress on to the ecological environmental; • wildlife protection; • implement and maintain mitigation measures as per EIA/EA study; • review monitoring requirements vs environmental protection effectiveness and to gauge practical environmental target. Monitoring frequency may be increased, or decreased or even ceased.

Filed by Environmental Team Manager: _____ Date: _____

PROCESS AUDIT PROFORMA Ref:_____

Process Name: _____ Department _____

Ref*	Process Input**	Process Output	Anticipated/measured Impacts	Recommendation
EIAxxx	Level 2 Slaughter Hall: • 100 cattle/hr • 1 m3/d water	Level 2 Slaughter Hall: • Eviscerated cattle • by-product such as, blood, stomach, bone, skin etc.	Water Quality: • xxx m3/h wastewater, COD= xxxkg, BOD= xxkg, SS=xxx =kg Air Quality • air outlet odour = 7.3 OU	Water Quality • water reduction plan; • wastewater treatment by ..... Air Quality • negative indoor air pressure; • increase the renewal frequency of scrubber absorbent to.....
Design EM&Axxxx	Pickling Process of an Iron and Steel Plant: • 595 ton conc H_2SO_4 • rod steel 25k ton • steam 775k kJ/h • water 1.7 ton	Pickling Process of an Iron and Steel Plant: • de-scaled rod steel • acid fumes	Liquid waste • spent pickle liquor Solid waste • pickle liquor sludge Air Quality • escaped acid fumes	Water Quality • segregate of liquid waste • water reduction plan Solid Waste • reuse a iron sand Air Quality • air seal/tight acid fumes collection

* *EIA Ref/EM&A Log Ref/Design Document Ref*

** *Details of equipment, vehicles, plants, processes, technologies for the option of operation*

Reviewed by Environmental Team Manager: _____ Date: _____

Approved by Independent Checker (Environment): _____ Date: _____

COMPLAINT LOG Ref:_____

Log Ref	Date/Location	Complainant/ Date of Contact	Details of Complaint	Investigation/Mitigation Action	File Closed

Filed by Environmental Team Manager: _____ Date: _____