Appendix B

Sample Forms for EM&A Programme

Incident Report on Action Level or Limit Level Non-compliance

Project	
Date	
Time	
Monitoring Location	
Parameter	
Action & Limit Levels	
Measured Level	
Possible reason for Action or Limit Level Non-compliance	
Actions taken / to be taken	
Remarks	
	Location Plan
Prepared by:	
Designation:	
Signature:	

Date:

Data Sheet for TSP Monitoring

Monitoring Location								
Details of Location	Details of Location							
Sampler Identification								
Date & Time of Sampling								
Elapsed-time	Start (min.)							
Meter Reading	Stop (min.)							
Total Sampling Time (mir	ı.)							
Weather Conditions								
Site Conditions								
	Pi (mmHg)							
Initial Flow Rate, Qsi	Ti (°C)							
-	Hi (in.)							
	Qsi (Std. m³)							
	Pf (mmHg)							
Final Flow Rate, Qsf	Tf(°C)							
. ~	Hf(in.)							
	Qsf (Std. m³)							
Average Flow Rate (Std. m ³)							
Total Volume (Std. m³)								
Filter Identification No.								
Initial Wt. of Filter (g)							
Final Wt. of Filter (g)							
	$\mu g/m^3$)							
	Name & Designation Signature Date							

		Name & Designation	<u>Signature</u>	<u>Date</u>	
Field Operator	:				
Laboratory Staff	:				
Checked By	:				

Construction Noise Monitoring Field Record Sheet

Monitoring Location					
Description of Location					
Date of Monitoring					
Measurement Start Time	e (h	nh:mm)			
Measurement Time Leng	gth (r	nin.)			
Noise Meter Model/Iden	ntification				
Calibrator Model/Identit	fication				
	L ₉₀ ((dB(A))			
Measurement Results	L ₁₀	(dB(A))			
	Leq ((dB(A))			
Major Construction Noi Monitoring	se Source	(s) During			
Other Noise Source(s) I	Ouring Mo	nitoring			
Remarks					
	Ī	Name & Designa	ation	Signature	<u>Date</u>
Recorded By :					
Checked By :					

Operational Stage Traffic Noise Monitoring – Field Survey Record Sheet

General									
Monitoring	g location	/Reference	e No.						
Person-in-	charge								
Date and I	Day of mo	onitoring							
Measurement time					From		to		
Description of location (incl. floor level) (attach plan separately)				el)					
Microphor	ne positio	n							
Weather (Conditio	ns							
Weather co									
Temperatu	re (°C)						•		
Wind spee									
Equipme	nt								
Instr	ument		Тур	e		Seria	l No.		Setting
Sound lev	el meter								
Calibrator									
Calibratio	nn -		·		<u> </u>			.	
Before me		nt:			After me	easureme	ent:		
Raw Data	1	Traffic	: data*	ş	l N	loise leve	el (30 mi	n)	Average
Time Near side Far side		side	Noise level (30 min) dB(A)		speed				
	LV	HV	LV	HV	L ₁₀	L ₉₀	Leq	L _{max}	kph a/b c/d#
1									

Note:

LV

HV

light vehicle (i.e. private car, motorcycle, taxis and van)
heavy vehicle (i.e. other than LV)
traffic count for a duration of 15 minutes
a/b|c/d = near side LV/near side HV | far side LV/far side HV

Operational Stage Traffic Noise Monitoring – Field Survey Record Sheet (cont'd)

Personnel

	Name	Designation	Signature	Date
Recorded by				
Checked by				

Water Quality Monitoring Data Record Sheet

Location	
Date	
Start Time (hh:mm)	
Weather	
Sea Conditions	
Tidal Mode	
Water Depth (m)	
Monitoring Depth	
pH	
Salinity (mg/l)	
Temperature (°C)	
Turbidity (NTU)	
SS Sample Identification (mg/l)	
SS (mg/l)	
Observations	
	<u> </u>

		Name & Designation	<u>Signature</u>	<u>Date</u>
Recorded By	:			
Checked By	:			

Note: The SS results are to be filled up once they are available from the laboratory.

Data format for water quality monitoring

A. The data base structure for water quality monitoring is listed below. The ET shall select the related field names to create their own data recording sheet.

ield Name	ур e	idth	ec	emark
roject/contract ID				iven by EPD
orkArea ID				iven by EPD
amStn				ampling Station
atitude		0		atitude of Sampling Station
ongitude		0		ongitude of Sampling Station
asting				K Grid (Easting) of Sampling Station
orthing				K Grid (Northing) of Sampling Station
ate				ampling Date
ime				ampling Time
eplicate				= first sample; 2 = duplicated sample; etc
tnPurpose				urpose of Sampling Station (C = control; I = Impact; S = Sensitive receiver; etc)
amPurpose				urpose of Sample (B = baseline; I = Impact)
eather	ļ	0		sunshine, precipitation, humidity, air temperature)
ideStatus		0		idal Status (e.g mid_ebb; mid-flood)
aterDepth				epth of water column in meter
amDepthM				epth of sample taken in meter
amDepth	ļ			epth of sample taken (S=surface; M=middle; B=bottom)
aterTemp				ater Temperature
alinity				
0				issolved Oxygen
os				issolved Oxygen in % saturation
urbidity				
S				uspended solids
etals_T				otal metals (approx. 7 parameters, and can be more)
etals_D				issolved metals (approx. 7 parameters, and can be more)
race organic				race organic (e.g PAHs, PCBs etc can be a lot)
utrients			ļ	utrients (include several parameters such as NO ₂ N, NO ₃ N,
				H ₃ _N, TP, OP etc)

OD		
OD		
hlorophyll_a		
	0	
coli	0	
coliform	0	aecal coliform
ARA		ther parameters not listed above. (Confirm with EPD individually

(Remark: enter 999.99 to any numeric field that have no reading. Please note that "zero" is also a valid data)

B. Details of water analytical methods and detection limits for different parameters.

Parameter	Limits of detection for WQ parameters	Units of measurement for WQ parameters	Analytical methods
e.g. DO			
e.g. Cd_T			
etc			

- C. Apart from A and B, the following information shall also be provided:
 - 1. Project name, contract number, consultant name and telephone, contractor name, contact person and telephone number, site staffs and telephone.
 - 2. Project commencement date and the proposed completion date, frequency of sampling and project work nature, e.g. dumping, dredging or reclamation.
 - 3. List of site instrument for water quality monitoring.

Site Insepction Proforma

Ref:	
	 _
	 _

Date	e Location Req't Ref.* Observation/Deficiency		Location Req't Ref.* Observation/Deficiency Mitigation Act (Responsible A			

- EIA Ref/EM&A Log Ref/Design Document Ref/Environmental Protection Contract Clause
 Specific Environmental Mitigation Measures should be stated, such as, equipment, processes, systems, practices or technologies.
 The required completion date to confirm the specified Environmental Protection Action **
- ***

This Proforma is an Environmental Protection Instruction for:	on
Signed by Environmental Team Leader:	Date:

Copy to Independent Environmental Checker

Proactive Environmenta	Protection Proforma
------------------------	---------------------

Ref:		

Ref*	Proposed Construction Method**	Location/ Working Period	Anticipated Impacts	Recommended Mitigation Measures
.				

Reviwed by Environmental Team Leader:	Date:	_
Approved by Independent Environmental Checker:	Date:	

EIA Ref/EM&A Log Ref/Design Document Ref
Details of equipment, vehicles, plants, processes, technologies for the option of construction method

DATA RECOVERY SCHEDULE

Ref:		_

Date	Air Quality Monitoring			Noise Monitoring				Water Quality Monitoring							
	Monitoring	Station*				Monitoring	Monitoring Location*			Monitoring Location*					
	A1	A2	A3	A4	A5	NI	N2	N3	N4	N5	W1	W2	W3	W4	W5
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31	-			<u> </u>	<u> </u>			<u> </u>	<u> </u>						
% of R											1				

* Remark type of parameters
% of R The percentage of Data Recovery is the actual monitoring over the scheduled monitoring

Signed by Environmental Team Leader:		Date:	
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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 Leader:	Date:	
Signed by Independent Checker (Environment):	Date:	

COMPLAINT LOG	Ref:

Ref:		

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

Filed by Environmental Team Leader:	Date:	
riied by Environmental Team Leader.		