Appendix B

Proforma for EM&A Programme

Data Sheet for TSP Monitoring

Monitoring Location					
Details of Location					
Sampler Identification					
Date & Time of Sampling					
Elapsed-time	Start	(min.)			
Meter Reading	Stop	(min.)			
Total Sampling Time (min	n.)				
Weather Conditions					
Site Conditions					
	Pi	(mmHg)			
Initial Flow	Ti	(°C)			
Rate, Qsi	Hi	(in.)			
	Qsi	(Std. m³)			
	Pf	(mmHg)			
Final Flow	Tf	(°C)			
Rate, Qsf	Hf	(in.)			
	Qsf	(Std. m³)			
Average Flow Rate (S	Std. m³)				
Total Volume (S	Std. m³)				
Filter Identification No.					
Initial Wt. of Filter (§	g)				
Final Wt. of Filter (§	g)				
Measured TSP Level (µ	ug/m³)				
	N:	ame & Designat	ion	<u>Signature</u>	<u>Date</u>
	110	unic & Designat		Signaturo	Duic
Field Operator:					_
Laboratory Staff:					
Checked by:					

Noise Monitoring Field Record Sheet

Monitoring Location				
Description of Location				
Date of Monitoring				
Measurement Start Time	e (hh:mm)			
Measurement Time Len	gth (min.)			
Noise Meter Model/Ider	ntification			
Calibrator Model/Identi	fication			
Measurement	L_{90} (dB(A))			
Results	L_{10} (dB(A))			
Results	L_{eq} (dB(A))			
Major Construction Noi Monitoring	se Source(s) During			
Other Noise Source(s)	Ouring Monitoring			
Remarks				
	Name & Designati	<u>on</u>	<u>Signature</u>	<u>Date</u>
Recorded by:				
Checked by:				

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.

Field Name	Type	Width	Dec	Remark
Project/contract ID	С	3		Given by EPD
Works Area ID	С	2		Given by EPD
SamStn	С	3		Sampling Station
Latitude	С	10		Latitude of Sampling Station
Longitude	С	10		Longitude of Sampling Station
Easting	С	6		HK Grid (Easting) of Sampling Station
Northing	С	6		HK Grid (Northing) of Sampling Station
Date	D	8		Sampling Date
Time	С	5		Sampling Time
Replicate	С	1		1 = first sample; 2 = duplicated sample; etc
StnPurpose	С	1		Purpose of Sampling Station (C = control; I = Impact; S = Sensitive
				receiver; etc)
SamPurpose	С	1		Purpose of Sample (B = baseline; I = Impact)
Weather	С	20		(sunshine, precipitation, humidity, air temperature)
TideStatus	С	10		Tidal Status (e.g. mid_ebb; mid-flood)
WaterDepth	N	4	1	Depth of water column in meter
SamDepthM	N	4	1	Depth of sample taken in meter
SamDepth	С	1		Depth sample taken ($S = surface$; $M = middle$; $B = bottom$)
WaterTemp	N	4	1	Water Temperature
Salinity	N	6	2	
DO	N	6	2	Dissolved Oxygen
DOS	N	6	2	Dissolved Oxygen in % saturation
Turbidity	N	6	2	
SS	N	6	2	Suspended solids
Metals_T	N	6	2	Total metals (approx. 7 parameters, and can be more)
Metals_D	N	6	2	Dissolved metals (approx. 7 parameters, and can be more)
Trace organic	N	6	2	Trace organic (e.g. PAHs, PCBs etc can be a lot)
Nutrients	N	6	2	Nutrients (include several parameters such as NO ₂ _N, NO ₃ _N,
				NH ₃ _N, TP, OP etc)
DOB	N	6	2	
COD	N	6	2	
Chlorophyll_a	N	6	2	
Ecoli	N	10	0	
Fcoliform	N	10	0	Faecal coliform
PARA				Other 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.

Water Quality Monitoring Data Record Sheet

Monitoring Location	n			
Date				
Start Time (hh	:mm)			
Weather				
Water Depth (m)				
Monitoring Depth		Surface	Middle	Bottom
рН				
Temperature	(°C)			
Turbidity	(NTU)			
DO Saturation	(%)			
DO	(mg/l)			
SS Sample Identific	cation			
SS	(mg/L)			
Observed	<100m from location			
Construction Activities	>100m from location			
Other Observations				
Recorded by:	Name & Desig	gnation	<u>Signature</u>	<u>Date</u>
Checked by:				

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

Sample Template for Interim Notifications of Environmental Quality Limits Exceedances

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:		

			Complaint Log	Ref:	
Log Ref	Date/Location	Complainant/ Date of Contact	Details of Complaint	Investigation/Mitigation Action	File Closed
Filed by	Environmental Team	Leader:		Date:	_

	Implementation Status Proforma	Ref:
Ref**	Environmental Protection Measures*	Implementation Status
	recommendations and requirements resulted during the Course of EIA/EA Process, including ACE and/or accepted public A Ref/EM&A Log Ref/Design Document Ref	comment to the proposed project.
Signed by	Environmental Team Leader: Date	:
Audited by	Independent Checker (Environment): Date	:

	Site Inspection Proforma					
Date	Location	Req't Ref.*	Observation/Deficiency	Mitigation Action** (Responsible Agency)	Date of Confirmation***	
** Spe	cific Environmental Mitigation	Measures shou	evironmental Protection Contract Clause ald be stated, such as, equipment, processes, syste Ged Environmental Protection Action	ms, practices or technologies.		
This Profor	rma is an Environmental I	Protection Ins	struction for:	on		
Signed by l	Environmental Team Lead	der:		Date:		
Copy to Ind	dependent Checker (Envir	ronment)				

Date		Air Oı	uality Moni	itoring			Noi	se Monitor	ring			Water	Quality Mo	nitoring	
	Monitoring Station*						oring Loca					itoring Loca			
	A1	A2	A3	A4	A5	N1	N2	N3	N4	N5	W1	W2	W3	W4	V
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f R															
R T	he percentag		overy is the ac	ctual monitori r•			itoring			D	ate:				

		Proactive Environ	mental Protection Proform	a Ref:
Ref*	Proposed Construction Method**	Location/ Working Period	Anticipated Impacts	Recommended Mitigation Measures
	Ref/EM&A Log Ref/Design Document Ref ails of equipment, vehicles, plants, processes, te	chnologies for the option of	construction method	
Reviewed l	by Environmental Team Leader:			Date:
Approved l	by Independent Checker (Environment)	:		Date:

	Ref:		
Ref*	Environmental License/Permit*	Control Area/Facility/Location	Effective Date
	me of Applicant, Business Corporation, relevant regulation and remark of licen. e reference of the license/permittee	se/permit conditions	
1 111	regerence of the memory permittee		
Recorded b	by Environmental Team Leader:	Date:	
Signed by 1	Independent Checker (Environment):	Date:	