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MINISTRY OF ENERGY AND ENERGY INDUSTRIES MINERALS DIVISION PROCESSING PLAN TEMPLATE

Please write legibly in black or blue ink. Your responses are not limited to the spaces available. Supplemental pages are to be inserted where required. Please be advised that incomplete / inadequate submissions shall not be accepted and the Applicant will be required to resubmit a properly completed template.

1. GENERAL INFORMATION

Information on Applicant				
NAME:		TELEPHONE:		
ADDRESS:		EMAIL ADDRESS:		
		FACSIMILE:		
Contact (Person duly authorized by Applicant, leave blank	s if same as ab	oove)		
NAME: E	MAIL ADDR	ESS:		
PHONE: F	ACSIMILE:			
PROCESSING PLANT LOCATION:	Acreage of Land:		Land Ownership:	□Private
	(Acres / Hectares)			
				□State
Certificate of Environmental Clearance Reference Number	r:	Water Abstraction Licence Num	ber:	
Town and Country Planning Approval Number:		Survey Plan Number:		
		Datum for stated elevations:		

Version 2

2. General Site Description: For all nearby communities, give the following details List the current land use of the site Name Characteristics (e.g. agricultural, residential, etc.) Location Population Size **Vegetation Type** □Primary forest □Secondary forest □Evergreen seasonal forest □Semi-evergreen seasonal forest □Deciduous seasonal forest □Grasslands □Bush lands □Cultivated lands Acreage covered by vegetation (Ac/Ha):_____ Acreage to be cleared (Ac/Ha): Acreage to be left undisturbed (Ac/Ha): **Topography and Gradient:** ☐ Generally flat ☐ Rolling/Undulating ☐ Hilly/Mountainous Please provide the gradient:

DRAINAGE: Type of drainage present on and near the processing site, tick all that apply:						
NATURAL SURFACE DRAI	NAGE:					
\square Watercourses	□Natural outfalls	\square Wetlands	□ Perennia	1	☐ Intermittent	
MAN-MADE DRAINAGE: □Roadside drains □Perimeter	r drains Storm-water	ponds □Silt traps	□Settling ponds	☐Man-made outfalls (connected to municipal of	drainage)	
Specify type of outfalls present in a specify type of outfall to river a specify type of outfall to river				(compored to mamorpur	arumage)	
Give details of measures in place	e to control sediment disc	charge after periods of	rainfall.			

3. Management of Water Sources: (please liaise with the Water Resources Agency for pertinent accurate information) **Groundwater resources:** present on and near the processing site, tick all that apply Aquifer name: _____ □Unconfined Type: \Box Confined Acreage of recharge areas: Water table: (Hectares/Acres) Depth (m) Give details of measures in place to control contamination of groundwater resources. Well information for any water-wells within or close to the processing area Location (northings, eastings) (Naparima Datum) Type (production/monitoring) Ownership (private/state) Water utilization Rate of abstraction (gallons/month) Monthly usage (gallons/month) Method of treatment of raw water Source Groundwater Surface water Potable water Official Signature and Stamp from the Water Resources Agency

4. General Plant Description:

Material to be Processed:			Products to be Produced	
\square Sand and gravel			Size	Rate (tonnes per day)
☐ Hard Rock:				
☐ Blue Limestone			1.	
☐ Yellow Limestone			!	
☐ Porcellanite			2.	
☐ Andesite			!	
☐ Oil / Tar Sand			3.	
☐ Other: Please indicate resource of	f interest			
			4.	
Plant Classification :			ا ۔	
			5.	
☐ Wet Processing Plant	☐ Mobile		6.	
☐ Dry Processing Plant	☐ Stationary		0.	
	☐ Combination		7.	
Give the method and schedule for the	he cleaning, storage and	d disposal of fill from desilting		
			8	
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5. <u>Details of Processing Plant</u> (crushers, screens, etc.)

Quantity	Type of Equipment	Make and Model	Capacity	Power consumption	Power Source:
					(Generator, T&TEC,
					Diesel, etc.)

(Attach a brochure, where available)

6. <u>Details of Other Equipment to be Utilized</u> (excavators, trucks, etc.)

Quantity	Type of Equipment	Make and Model	Capacity	Power consumption	Power Source: (Generator, T&TEC, Diesel, etc.)

(Attach a brochure, where available)

7. Diagrams and Plans:

- i. Layout Plan of the Processing Operations- Please produce a detailed scaled drawing showing the location of the following, where applicable:
- Land boundaries
- Vegetative buffers
- Known groundwater recharge area(s)
- Offices and buildings
- Hard ground surface area(s)
- Fuelling site (showing the location of storage tanks and bunds)
- Processing Plant
- Settling ponds
- Silt Traps
- Catchments
- Water discharge points

- Check Dams
- Natural and man-made watercourses, and associated berms to be constructed
- Stockpiles for unprocessed minerals
- Stockpiles for processed minerals
- Berms
- Roadways in the vicinity and on the site
- Garage for storage and maintenance of equipment
- Any other feature(s) on the site
- Metered water abstraction point
- Water pumps
- ii. Processing Flow of Operations- Please provide a block diagram giving details of the processing operations and also include the following:
 - Description of the operations of each plant (mobile & fixed)
 - Functions of the plant
 - Plant Intake (plant capacity)
 - Plant output (Material produced)
- iii. Water Management- Please provide details of how water and waste-water would be managed on site from the intake source to eventual reuse for washing minerals and provide a layout plan that includes the following:
 - Closed-loop system: give maximum storage capacity, dimensions, location and relative depths of ponds
 - Open system: identify location of discharge for treated wastewater
 - Drainage system to accommodate the run off from the processing plant and stockpiles
 - Position of clarifiers & other water treatment facilities where available
 - Position of water pumps
 - Position of metered water abstraction points

8.	If a	CEC	has not	been	obtained,	please	provide:
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- i. A conceptual **Storm-water Management Plan** for the site stating:
 - a. The **temporary and permanent measures** that will be implemented during the site preparation, construction and post-construction phases to ensure that there is no net increase in peak runoff for a 1:25 rainfall event from the pre-development to the post-development phase
 - b. The pre-development flow value (Q m³/s) for the proposed site such that the existing volume of surface runoff for the site can be quantified
 - c. The description of any onsite measures that would be instituted to maintain the pre-development flow value during the construction and post-construction phases of the proposed development
 - d. The proposed storm-water management measures can accommodate the post-development flow value and reduce it to the predevelopment flow value ($Q \text{ m}^3/s$)
 - e. Calculations for determining the pre-and post-development flow value (Q m³/s) for the proposed site
 - f. The drainage mechanisms
 - g. The storm-water retention/detention ponds, catchments, landscaping, etc
 - h. The proposed plans for the inspection and maintenance of any physical structures (e.g. detention/retention ponds, catchments, etc.) that may be constructed on the site.
- ii. A **Sediment and Erosion Management Plan** for the site stating the:
 - a. Temporary and permanent measures that will be implemented during the site preparation, construction and operational phases of the development
 - b. Possible measures such as, but not limited to, phased clearing, settling pond(s), filtering devices placed within drains and revegetation, that will be implemented to minimise or prevent the movement or migration of sediments off site due to the proposed site activities.
- iii. A Monitoring and Reporting Plan for the Quality of Water Discharged from the site
- iv. The **Mitigation Measures** to be applied for dust pollution, noise pollution, emissions from equipment/vehicles, soil pollution, and fuel and oil spills

Data	Authorized Signature	Nama (block latters)
Date	Authorised Signature	Name (block letters)