	Impact	Pre-construction phase					Construction Phase																										Post Construction Phase												
	Activities ->	Site Surveying, Testing & Data Collection	Negotiations with land owners	Land acquisition	Resettlement	Access Roads/parking lots	Migration of workers	Worker Camps	Land Clearing	Demolition of existing structures	Reclamation of land	Blasting & Drilling	Dredging	Excavation of trenches	Micro-tunneling	Pavement demolition	Stockpiling of materal	Diversion of waterways	Flood control operations/site drainage	Construction of storm water outlets, cannels, etc.	Barriers /Fencing	Traffic diversion	Transport of construction material	Crossings at culverts, railroads & bridges	Earthework: Trenching, construction of pipelines, filling	Earthework: construction of sea outfall	Compaction & Soil Stabilization	Construction of Embankments, Retaining walls	Construction of main pump station	Construction of pump stations (Primary and Secondary)	Spoilage disposal	Landscaping	Provision of power, lighting and other Utilities	Operation of pumping stations	Operation of main pumping station	Maintenance of pipelines (inland)	Maintenance of pipelines (off-shore)	Accidental leakages of pipelines (off-shore)	Accidental leakages of pipelines (inland)	Accidental leakages of pipelines	Overflow of gullys, manholes etc.	Disposal of sludge	Disposal of solid waste at pumping stations	Gully operations	Plant failures
	Parameters																																												
1	***Water Quality***																																												
1a	***Surface Water***					L	L	L	L		L		L	L			M		L	L	L		L		L			L	M	L	M								M		M	L	L	L	M
1b	***Ground Water***							L						L	L			M	L	M					L		L		L	L	M						M	M		M	L	L		M
1c	***Coastal Water***						L						M					M	L	L			L			M			L						L		M					L	L		M
1d	***Attidiya Lake***					L	L	L	L				L	M			M	M	L	L	L		L		M		L	L		L	M								M		M	L	L	L	M
2	***Air quality, Noise and Vibrations***																																												
2a	***in neighbourhood of pumping stations***																																												
	odour and gaseous emissions																																	M		M			L		L		M	M	M
	airborne pathogenic microorganisms																																	M		M			L		L		M	M	M
	dust							L	L	L	L	L	L	L		L	L			L		L	L		L		L		L	L	L	L													
	Noise Levels							L	L	L	L	L	L	L		L	L					L	L		L		L		L	L				L											
	Vibrations									L		L		L	L	L									L		L		L	L															
2b	**near Attidiya lake**																																												
	odour and gaseous emissions																																	M		M			L		L		M	M	M
	airborne pathogenic microorganisms																																	M		M			L		L		M	M	M
	dust							L	L	L	L	L	L	L		L	L			L		L	L		L		L		L	L	L	L													
	Noise Levels							L	L	L	L	L	L	L		L	L					L	L		L		L		L	L				L											
	Vibrations														L										L		L		L	L															
2c	**along road network**																																												
	odour and gaseous emissions																																												
	airborne pathogenic microorganisms																																												
	dust							L	L	L	L	L	L	L		L	L			L		L	L		L		L		L	L	L	L													
	Noise Levels							L	L	L	L	L	L	L		L	L					L	L		L		L		L	L				L											
	Vibrations									L		L		L	L	L									L		L		L	L															
3	Soil quality (Pollution)																																												
4	***Hydrology and Drainage***																																												
	Flooding					L					L						M	M	L	L	L			L	L			L			L	L									L				
	Stream flow/drainage obstruction				L	M	L	L	L	L	M				L		M	L	L	M	L			M	M	L	L	M	L	L	L	M				M			L	L	L	M	M	L	
	Sedimentation	L			L	M	L	L	M	L	M	L	L	L	L	L	M	L	L	M	M		L	M	M	L	M	M	L	L	M	L				M			M	M	L	M	M	L	L
	Reduction of Water storage capacity					L					L																	M			M	M							M	M	L	M	M	L	
	Water level fluctuations in Attidiya lake																																												
	Water level fluctuations in Weras Ganga																																												
5	***Geology, Hydrogeology, topography and Geotechnics***																																												
	Recharge											L		M															M	M															
	Ground water levels				M	L		M			L			M	M					L					H			L	M	M				L	L	L					L				
	Soil erosion				M	L		M	M		L			M	M			H	M	M				H		M		L	L	L								H	H	L				
	Slope Stability				L	L		L	M		L	M		H				H	L									M	L	L	M														
	Settlement of the ground				L	L					M	M	L	H	H		M	L						H	H		H	L	M	M								H	H					
6	***Habitats***																																												
	Terrestrial (natural forest, scrublands etc.)																																												
	Wildlife sanctuaries																																												
	Aquatic (river/stream, reservoir/tank, wetlands etc.)										L		M					M										M											M		M				
7	***Biodiversity***																																												
	Terrestrial flora					L		L	L		L						L																												
	Terrestrial fauna					L		L	L		L							L																											
	Aquatic flora										L		L					M										L											L						
	Aquatic fauna										L		L					M										L											L						
	Rare/ endangered species																																												
	Migratory Patterns																																												
8	***Marine ecosystems***																																												
	Marine flora											M	M													M												L	M						
	Marine fauna											M	M													M												L	M						
	Rare/ endangered species											L	L													L												L	L						
	Migratory Patterns																																												

	Impact	Pre-construction phase					Construction Phase																											Post Construction Phase												
	Activities ->	Site Surveying, Testing & Data Collection	Negotiations with land owners	Land acquisition	Resettlement	Access Roads/parking lots	Migration of workers	Worker Camps	Land Clearing	Demolition of existing structures	Reclamation of land	Blasting & Drilling	Dredging	Excavation of trenches	Micro-tunneling	Pavement demolition	Stockpiling of materal	Diversion of waterways	Flood control operations/site drainage	Construction of storm water outlets, cannels, etc.	Barriers /Fencing	Traffic diversion	Transport of construction material	Crossings at culverts, railroads & bridges	Earthework: Trenching, construction of pipelines, filling	Earthework: construction of sea outfall	Compaction & Soil Stabilization	Construction of Embankments, Retaining walls	Construction of main pump station	Construction of pump stations (Primary and Secondary)	Spoilage disposal	Landscaping	Provision of power, lighting and other Utilities	Operation of pumping stations	Operation of main pumping station	Maintenance of pipelines (inland)	Maintenance of pipelines (off-shore)	Accidental leakages of pipelines (off-shore)	Accidental leakages of pipelines (inland)	Accidental leakages of pipelines	Overflow of gullys, manholes etc.	Disposal of sludge	Disposal of solid waste at pumping stations	Gully operations	Plant failures
	Parameters																																															
9	***Land Use***																																															
	Residential	L	H	H	L	L	L	L	M	L	L	L	M	M	M	M	L	M	M	M	M	H	H	M	H	L	M	M	H	H	H	L	L	H	H	H	L	L	M	M	M	M	M	M	M	M
	Commercial	L	L	L	L	L	M	M	L	L	M	L	L	H	H	H	H	M	M	L	H	H	H	L	H	L	M	L	M	M	M	L	L	M	M	H	L	L	H	H	H	H	H	H	H	M
	Agricultural	L	L	L	L	L	L	L	L	L	M	L	M	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
	Industry	L	L	L	L	L	L	L	M	L	L	L	L	M	M	M	M	M	M	L	M	M	M	L	H		M	L	L	L	L	L	M	M	M	M			M	M	M	M	M	M	M	M
	Institutional & Administration	L	L	L	L	L	L	L	L	L	L	L	L	M	M	M	M	L	L	L	M	H	H	L	H		L	L	L	L	L	L	L	M	M	M			M	M	M	M	M	M	M	M
	Heritage sites					M	L	L	L	L			;L	M		L	L	L	L		M	M	M		L					M	M			M		M			M	M	M	M	M	M	M	M
10	***Aesthetics***																																															
	Visual quality						L	L	L		L		L	L	L	L	L	L	L	L	L	M	L		L	L	L	L	M	M	M	L				M	L		M	M	M	M	M	M	M	M
	Neighbourhood quality near pump houses					M	M	M	M		M		M	M	M		M	L	L		M	M	M		M				H	H	H			H	H	H			H	H	H	H	H	H	H	H
	Neighbourhood quality along road network					H								H	M	H	H				H	H	H	M	H		H	H			M					H			H	H	H	M	M	M	L
11	***Social, archeological and cultural***																																															
	Housing	L	L	L	M	L	L	L	L		M	L	M	M	M	M	M	L	L	L	M	M	H	L	L		L	L	H	H	H	L	L	H	M	H		H	H	H	H	H	H	H	H	H
	planned government/private development activities			L														L													M		L	M	M	M			M	M	M	M	M	M	M	M
	Social interactions				L		M	M						M	M	M	M	L		L	M	M	M		M	M		L	M	M	M				M	M	M	M	M	M	M	M	M	M	M	M
	Public Health							L	L		L		M	M	L	M	L	M	L	L		L	L		M		L	L	M	M	H			M	M	M			M	H	M	M	M	M	M	M
	Population density						M	M	L				M	H	M	M	H	L	L	H	M	H	H	L	H	M	M	L	H	H	H			H	H	H	L	H	H	H	H	H	H	H	H	H
	Utility networks (water, electricity, telephone lines)			L					M	H			H	H	H	H		M	M	M	L			M	H			M	L	L	L	L				M			M	M	L	L	L	L	L	H
	Water uses								L	L	L	L	M	H	H	M		M	M	M				M	H		L	M			H					M	M		M	M	M	M	M	M	M	M
	Historical/ religious/ archeological sites								M				M	H	M	M	M			M	M	H	H	M	H		M	M	M	M	M			M	M	M	M		M	M	M	M	M	M	M	M
	Access to residences and property				L	L	L		M				M	H	M	H	H	M	M	M	H	H	H	M	H		M	H	M	M	L					H		M	M	M	M	M	M	M	M	L
12	***Transportation***																																															
	Transportation/ accessibility/ movement					L								M	L	H						H	M		M											L											
	Existing road network					L								H	L	H						L	L		H											L											
	Traffic hazards - Traffic congestion and vehicular user safety					L								H	M	H						H	M		H											L											
	Pedestrian safety													H	L	H						L	L		M																						
13	***Economic***																																															
	Land and property values	M	M					L			M							M	M			M	M	M	M		L	M	H	H	H	L		H	H						M	M	M	M	M
	Employment opportunities	L					L		M		M	M	M	M	L	M	M	L		M	M	M	M	L	M	M	L	L	L	L		M	M	M	M	M	M								M
	Livelihood						M	M					L	L		M	M	M	M	M	M	M	M	L	L	M					L		H	H	H	H	H	M	M	M	M	M	M	M	M
	Local economic conditions						M											L	L	M	L	H	H	L	H			L	H	H	M	M	H	H	H	M	M	M	M	M	M	M	M	M	M
	Regional economic conditions																	M	M	M		M	M						H					H	H	M			M	H	H	H	H		H