

Appendix H: Environmental Screening Checklists

Environmental Screening Form 1: Eastern Trunk Main by Micro Tunneling

Sub-project Work Package Name and Location		Eastern Trunk Main (Madhubagh - Pagla STP)	
Layout of Trunk Main (See Figure 2.22)			Attachment A: layout map
a)	Does the alignment crosses water bodies If yes locate on layout map	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
b)	Does the alignment crosses rail crossing If yes locate on layout map	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
c)	Does the alignment crosses road crossing If yes locate on layout map	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
d)	Does the alignment crosses bridge crossing If yes locate on layout map	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
e)	Does the alignment crosses storm water drainage channels If yes locate on layout map	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
f)	Does the alignment crosses drainage box culverts If yes locate on layout map	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Environmental Screening Checklist

Screening Questions	Yes	No	Scale of Impact			Remarks/Possible Negative Impact and Assessment (S/M/I/N)*
			High	Medium	Low	
Potential Environmental Impact during planning and design phase/subproject siting (Adjacent/within/closed)						
Protected area (Forest)		<input checked="" type="checkbox"/>				
Wetland		<input checked="" type="checkbox"/>				
National park		<input checked="" type="checkbox"/>				
Wildlife sanctuary		<input checked="" type="checkbox"/>				
Buffer zone of the protected area		<input checked="" type="checkbox"/>				
Special area for protecting biodiversity		<input checked="" type="checkbox"/>				
Environmental Conditions						
Will be subproject activities cause negative effects on rare (vulnerable), threatened or endangered species of flora or fauna or their habitats?		<input checked="" type="checkbox"/>				
Is the construction being carried out in an ecologically sensitive area?		<input checked="" type="checkbox"/>				
Is there a possibility of loss of natural floral or faunal habitats?		<input checked="" type="checkbox"/>				
Will the project be carried out in a groundwater depleted zone?		<input checked="" type="checkbox"/>				
Will there be negative effects on designated wetlands?		<input checked="" type="checkbox"/>				
Is there water logging in the subproject area?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		M
Will the construction activities cause water logging in the subproject area?		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		I
Is there possibility of GW water contamination by subproject activities?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		M
Negative effects on locally important or valued ecosystems or vegetation?		<input checked="" type="checkbox"/>				

Screening Questions	Yes	No	Scale of Impact			Remarks/Possible Negative Impact and Assessment (S/M/I/N)*
Destruction/felling of tress and cutting of vegetation?	x			x		I
Negative effect on surface water quality/surface water pollution?	x			x		M
Demolish of existing building or loss of property, economic livelihood?	x			x		M
Negative impact on soil stability and compactness in the subproject area?		x				
Potential Environmental impacts during construction						
Will dust and vibration-generating equipment be used?	x			x		M
Will the excavation/trenching works and movement of vehicles generate air pollution?	x			x		M
Will there be noise pollution during the construction?	x			x		M
Will fuel and/or hazardous goods be used in construction activities?	x			x		I
Will fuel and/or hazardous substances be stored at the construction site?	x				x	I
Is there a possibility of discharging liquid effluent/slurry from the construction site?	x		x			H
Will construction materials be stockpiled near surface waters, and natural water courses?		x		x		M
Will construction activities affect the natural drainage pattern of the site (e.g. filling up low-lying area/land)?	x			x		M
Will earthwork (earth excavation, backfilling, stockpiling of excavated soil) involved in construction activities?	x			x		I
Is there a possibility of water stagnation at the construction site?	x				x	I
Will there be traffic congestion due to construction materials transport and wastes generated?	x			x		M
Will the construction involve blocking of roads (e.g. sewer laying)?	x		x			H
Will any archaeological and historical structures be affected?		x				
Will any structure(s)/ entity(s) (e.g., shops) be temporarily affected during subproject activity?	x		x			H
Environmental and Social Risks						
Is significant movement of vehicles involved during construction activities?	x			x		M
Increased wind-blown dust from material storage areas?	x				x	I
Is there a safe source of drinking water and adequate sanitation facilities available for the workers at or near the construction site?	x			x		M
Is there health risks to labors involved in construction activities?	x			x		M
Is there health risks to the neighboring people of the subprojects area?	x			x		M

Screening Questions	Yes	No	Scale of Impact			Remarks/Possible Negative Impact and Assessment (S/M/I/N)*
Potential Operational Risks						
Is there enough capacity to monitor the working condition of the sewerage facility or infrastructure?	x			X		M
Is there any risk of surface and groundwater pollution from the subproject?	x				X	I
Is there a risk to safety and human health to neighborhood community other than workers?	x				X	I
Will the subproject affect the way of life adversely and restrict access to common property resources of any indigenous people?		x				
Negative effects on local business, institutes or public facilities?		x				

*S = Significant; M = Moderate; I = Insignificant; and N = None.

Comments:

Environmental Screening Form 1: Western Trunk Main by Open Excavation

Sub-project Work Package Name and Location		Western Trunk Main (Hazaribagh-Narinda)	
Layout of Trunk Main – See Figure 2-23		Attachment A: layout map	
a)	Does the alignment crosses water bodies If yes locate on layout map	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
b)	Does the alignment crosses rail crossing If yes locate on layout map	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
c)	Does the alignment crosses road crossing If yes locate on layout map	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
d)	Does the alignment crosses bridge crossing If yes locate on layout map	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
e)	Does the alignment crosses storm water drainage channels If yes locate on layout map	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
f)	Does the alignment crosses drainage box culverts If yes locate on layout map	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Environmental Screening Checklist

Screening Questions	Yes	No	Scale of Impact			Remarks/Possible Negative Impact and Assessment (S/M/I/N)*
			High	Medium	Low	
Potential Environmental Impact during planning and design phase/subproject siting (Adjacent/within/closed)						
Protected area (Forest)		<input checked="" type="checkbox"/>				
Wetland		<input checked="" type="checkbox"/>				
National park		<input checked="" type="checkbox"/>				
Wildlife sanctuary		<input checked="" type="checkbox"/>				
Buffer zone of the protected area		<input checked="" type="checkbox"/>				
Special area for protecting biodiversity		<input checked="" type="checkbox"/>				
Environmental Conditions						
Will be subproject activities cause negative effects on rare (vulnerable), threatened or endangered species of flora or fauna or their habitats?		<input checked="" type="checkbox"/>				
Is the construction being carried out in an ecologically sensitive area?		<input checked="" type="checkbox"/>				
Is there a possibility of loss of natural floral or faunal habitats?		<input checked="" type="checkbox"/>				
Will the project be carried out in a groundwater depleted zone?		<input checked="" type="checkbox"/>				
Will there be negative effects on designated wetlands?		<input checked="" type="checkbox"/>				
Is there water logging in the subproject area?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		M
Will the construction activities cause water logging in the subproject area?		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		I
Is there possibility of GW water contamination by subproject activities?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		M
Negative effects on locally important or valued ecosystems or vegetation?		<input checked="" type="checkbox"/>				
Destruction/felling of trees and cutting of vegetation?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		I
Negative effect on surface water	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		M

Screening Questions	Yes	No	Scale of Impact			Remarks/Possible Negative Impact and Assessment (S/M/I/N)*
quality/surface water pollution?						
Demolish of existing building or loss of property, economic livelihood?	x			x		M
Negative impact on soil stability and compactness in the subproject area?		x				
Potential Environmental impacts during construction						
Will dust and vibration-generating equipment be used?	x			x		M
Will the excavation/trenching works and movement of vehicles generate air pollution?	x			x		M
Will there be noise pollution during the construction?	x			x		M
Will fuel and/or hazardous goods be used in construction activities?	x			x		I
Will fuel and/or hazardous substances be stored at the construction site?	x				x	I
Is there a possibility of discharging liquid effluent/slurry from the construction site?	x		x			H
Will construction materials be stockpiled near surface waters, and natural water courses?		x		x		M
Will construction activities affect the natural drainage pattern of the site (e.g. filling up low-lying area/land)?	x			x		M
Will earthwork (earth excavation, backfilling, stockpiling of excavated soil) involved in construction activities?	x			x		I
Is there a possibility of water stagnation at the construction site?	x				x	I
Will there be traffic congestion due to construction materials transport and wastes generated?	x		x			H
Will the construction involve blocking of roads (e.g. sewer laying)?	x		x			H
Will any archaeological and historical structures be affected?		x				
Will any structure(s)/ entity(s) (e.g., shops) be temporarily affected during subproject activity?	x		x			H
Environmental and Social Risks						
Is significant movement of vehicles involved during construction activities?	x			x		M
Increased wind-blown dust from material storage areas?	x				x	I
Is there a safe source of drinking water and adequate sanitation facilities available for the workers at or near the construction site?	x			x		M
Is there health risks to labors involved in construction activities?	x		x			H
Is there health risks to the neighboring people of the subprojects area?	x		x			H
Potential Operational Risks						
Is there enough capacity to monitor the working condition of the sewerage facility or	x			X		M

Screening Questions	Yes	No	Scale of Impact			Remarks/Possible Negative Impact and Assessment (S/M/I/N)*
infrastructure?						
Is there any risk of surface and groundwater pollution from the subproject?	x				X	I
Is there a risk to safety and human health to neighborhood community other than workers?	x				X	I
Will the subproject affect the way of life adversely and restrict access to common property resources of any indigenous people?		x				
Negative effects on local business, institutes or public facilities?		x				

*S = Significant; M = Moderate; I = Insignificant; and N = None.

Comments: